

# A Complete Bibliography of Publications in *Journal of Fish Diseases* (2010–2019)

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## Title word cross-reference

–20 [HPAL10]. –80 [SG12]. 2 [HST<sup>+</sup>13]. <sup>N438A</sup> [CGW<sup>+</sup>19]. <sub>1</sub> [BSD<sup>+</sup>18d]. <sub>18</sub> [LZZN10]. <sub>4</sub> [LZZN10].  $\alpha$  [LLZW14, TQW<sup>+</sup>14].  $\alpha_{s2}$  [SJDC<sup>+</sup>13].  $\beta$  [CKTT10, CPB<sup>+</sup>15, CMR<sup>+</sup>16, HBH<sup>+</sup>19, JSAH<sup>+</sup>18, KBE<sup>+</sup>14, PLCC11, SCS<sup>+</sup>12, TQW<sup>+</sup>14, UN10, UKS<sup>+</sup>18, YSHG18].  $\gamma$  [TQW<sup>+</sup>14].  $\mu$  [BVL<sup>+</sup>18, GVLE16].  $\times$  [AZSSZZ13, BSK<sup>+</sup>10, DBS12, FCS<sup>+</sup>18, LTC<sup>+</sup>14, RHSM<sup>+</sup>18b, SSF<sup>+</sup>17, SL15, SRT<sup>+</sup>14, ZDWH18].  $\varepsilon$  [RBL<sup>+</sup>11].

**-1** [JSAH<sup>+</sup>18, YSHG18]. **-6-fluoro** [SRD<sup>+</sup>16]. **-D-glucans** [KBE<sup>+</sup>14]. **-G** [CGW<sup>+</sup>19]. **-glucan** [UKS<sup>+</sup>18]. **-haemoglobin** [UN10]. **-hydroxybutyrate** [SCS<sup>+</sup>12]. **-like** [BRB<sup>+</sup>12, ZGY<sup>+</sup>18]. **-proteobacteria** [CMR<sup>+</sup>16].

. [ATP<sup>+</sup>17, SPKS17, YFA<sup>+</sup>17].

**1** [CKTT10, EDP<sup>+</sup>17, GVLE16, GCCLRP<sup>+</sup>13, KYK<sup>+</sup>12, KAST17, LASRA<sup>+</sup>19, MMNL14, NJK<sup>+</sup>17, SHKF16, UN10, VCS<sup>+</sup>19].

**1-chloropiperidin-4-yl** [SRD<sup>+16</sup>]. **12** [DJR<sup>+19</sup>, MMNL14]. **16S** [DPMK12, LWWS14, LGD<sup>+17</sup>, RB15]. **16S-RFLP** [LGD<sup>+17</sup>].

**2** [AHJS<sup>+18</sup>, DKBS17, GM10, NSS<sup>+17</sup>, PMW<sup>+10</sup>, RAM<sup>+18</sup>]. **23S** [DPMK12]. **2L** [LCC<sup>+15</sup>].

**3** [CWW<sup>+18</sup>, IFF<sup>+15</sup>, PFP<sup>+13</sup>]. **3-** [SRD<sup>+16</sup>]. **3-glucan** [YSHG18]. **3-year** [KZJ<sup>+17</sup>]. **3/1** [JSAH<sup>+18</sup>]. **35-year-old** [WGL17]. **36** [APG<sup>+11</sup>, HO13].

**5** [VSS17]. **5'-monophosphate** [VSS17]. **55L** [HLC<sup>+15</sup>]. **5p** [FBK<sup>+16</sup>].

**6** [GCNB16]. **6-** [KBE<sup>+14</sup>]. **6-glucan** [JSAH<sup>+18</sup>]. **610** [RGD<sup>+12</sup>]. **64L** [CCLL16].

**73** [YK12].

**8** [LRD<sup>+19</sup>]. **89** [RSIP<sup>+17</sup>, RSPA<sup>+18</sup>].

**90** [RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SHO<sup>+17</sup>]. **97L** [HLC<sup>+15</sup>].

**A-I** [LSC<sup>+14</sup>]. **A-layer** [GLK<sup>+16</sup>]. **A.** [CSA<sup>+15</sup>]. **A1** [ZWG<sup>+17</sup>]. **abalone** [JYZ<sup>+14</sup>]. **ABC** [OJRL10]. **ABC-transporter** [OJRL10]. **abdominal** [GHB<sup>+11</sup>]. **abdominalis** [LYD<sup>+15</sup>]. **Abilgaard** [SAD<sup>+12</sup>]. **ability** [CD17, PST<sup>+16</sup>, SWM<sup>+15</sup>]. **abiotic** [SHV<sup>+16</sup>]. **abnormalities** [FPK<sup>+17</sup>, MPS<sup>+18</sup>]. **abrupt** [LTC17]. **abscessus** [PBW<sup>+18</sup>]. **absence** [GCS<sup>+18</sup>, JLJ16]. **abundance** [GBV<sup>+16</sup>, GVB<sup>+17a</sup>, GAVC16, JMF<sup>+18</sup>, LDÁM14]. **Acanthopagrus** [Dig13, Dig15, LLNL13, Pol15]. **acarne** [RVB13]. **Accelerated** [AGB<sup>+19</sup>]. **accuracy** [LTG<sup>+18</sup>, LMG<sup>+19</sup>]. **accurate** [KPSP<sup>+19</sup>]. **achromogenes** [BBP18, SWM<sup>+15</sup>]. **Achyranthes** [CR12]. **Acid** [ASHZ<sup>+12</sup>, ACYC10, AMRHM18, BCBS<sup>+13</sup>, DTF<sup>+16</sup>, GRT12, JKL<sup>+13</sup>, KSM<sup>+17</sup>, MMNL14, PSBG<sup>+11</sup>, PCK<sup>+15</sup>, SOGR<sup>+19</sup>, SMFM12, TNK12]. **acid-specific** [ACYC10]. **acidification** [ASW16, CBM<sup>+17</sup>]. **acidovorans** [ARFG13]. **acids** [MLF<sup>+10</sup>]. **Acipenser** [LGK<sup>+14</sup>, MMD<sup>+12</sup>, RHSM<sup>+18b</sup>, RFA<sup>+14</sup>, SAD<sup>+12</sup>]. **Acipenserid** [DKBS17]. **acquisition** [BLF<sup>+16</sup>, BPMI<sup>+16</sup>, BAMYAH19]. **act** [PJL<sup>+12</sup>]. **Actinochlamydia** [SPV<sup>+18</sup>]. **Actinochlamydiaceae** [SPV<sup>+18</sup>]. **activation** [RCGGM15]. **active** [LBF<sup>+14</sup>]. **activities** [BSD<sup>+18a</sup>, BA14, HDC18, YLX<sup>+19b</sup>]. **activity** [BSSB18, BSD<sup>+18d</sup>, BYAS<sup>+19</sup>, BLFC12, PMH<sup>+11</sup>, PSBG<sup>+11</sup>, RBH<sup>+17</sup>, SJDC<sup>+13</sup>, SLPB18, SBW11, TFG19, UN10, YSK13, ZWG<sup>+17</sup>]. **acts** [PBC15]. **aculeatus** [ASW16, PJZB19, WFH<sup>+18</sup>]. **Acute** [HCCM12, PRT<sup>+14</sup>, PÅD18, Bin14, BPK<sup>+17</sup>, CCLGRM<sup>+17</sup>, CZB<sup>+11</sup>, DD18, DJR<sup>+19</sup>, KAF<sup>+19</sup>, KTN<sup>+16</sup>, KYB<sup>+15</sup>, MKY<sup>+15</sup>, NPGA<sup>+19</sup>, TTL<sup>+16</sup>].

**acute-phase** [DJR<sup>+19</sup>]. **acutely** [PRSK10]. **acus** [KJB11]. **Acyclovir** [TKS<sup>+18</sup>]. **adapt** [HGH<sup>+18</sup>]. **adaptation** [MLH<sup>+15</sup>]. **additional** [MJ17]. **additives** [AA10]. **adenocarcinoma** [RHSM<sup>+18a</sup>]. **adenoma** [SBHC18]. **adenosine** [BSD<sup>+18a</sup>, VSS17]. **adenosinergic** [BSD<sup>+18b</sup>]. **adherence** [JSJR<sup>+19</sup>, PDLW17, VMBGIC19]. **Adhesion** [HRNW15, HGW<sup>+19</sup>, YZW<sup>+19</sup>]. **adipose** [ASSP<sup>+15</sup>, BHW<sup>+11</sup>]. **adjuvant** [PVIM18]. **adjuvanted** [CLS<sup>+15</sup>]. **administered** [FHD13, GSS<sup>+10</sup>, HJN<sup>+19</sup>, TNK12]. **administration** [CMH<sup>+17</sup>, DPCdR14, ESV<sup>+19b</sup>, FGJ<sup>+10</sup>, FHZ<sup>+16</sup>, LWJ<sup>+16</sup>, LXHL11, OKS<sup>+13</sup>, PPI<sup>+13</sup>, dOAPLá<sup>+17</sup>]. **adomavirus** [PWW19]. **adult** [BHT<sup>+17</sup>, BVT<sup>+18</sup>, FSV<sup>+14</sup>, HKD<sup>+10</sup>, JHM<sup>+18</sup>, KCD<sup>+14</sup>, MIO<sup>+18</sup>, PPE<sup>+18</sup>, RBAT<sup>+17</sup>, RAM<sup>+17</sup>, SSK17]. **adulterant** [PNBK13]. **aduncum** [MGH<sup>+14</sup>]. **Advice** [TJR<sup>+18</sup>]. **aeglefinus** [JHM<sup>+18</sup>]. **Aequidens** [YCNW18]. **aer** [FMA<sup>+19</sup>]. **Aerococcus** [CG11]. **aerocystitis** [CBH<sup>+15</sup>, dSRSHGá<sup>+19</sup>]. **aerolysin** [FMA<sup>+19</sup>, MBB12]. **aerolysin-like** [MBB12]. **aeromonads** [PAZ18]. **Aeromonas** [AA10, BSV<sup>+18</sup>, BSB<sup>+18</sup>, BKS<sup>+17</sup>, BKD17, BHF13, BLFRCQ10, BVK<sup>+16</sup>, BE19, BBP18, BGCKF12, CHH<sup>+14</sup>, CMSHS16, CLZ<sup>+12</sup>, CD17, CYS17, ÇOÇ<sup>+16</sup>, CCMA<sup>+17</sup>, CTK<sup>+10</sup>, DBS12, DLCF13, DTJ<sup>+17</sup>, DSJA18, EDP<sup>+17</sup>, EDV<sup>+18</sup>, FCC<sup>+13</sup>, FMA<sup>+19</sup>, GDN<sup>+16</sup>, GLK<sup>+16</sup>, HKK<sup>+11a</sup>, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, JSJR<sup>+19</sup>, KEY<sup>+15</sup>, KBJ<sup>+13</sup>, KBD13, LPA<sup>+10</sup>, LL12, LLZW14, LCZ<sup>+18</sup>, LGC<sup>+19</sup>, LCR<sup>+10</sup>, LHW<sup>+15b</sup>, MSC<sup>+17</sup>, MLEM16, MP18, NB11, NLC<sup>+16</sup>, NDA10, OSAA18, PSCFB<sup>+18</sup>, PFJ<sup>+10</sup>, RKK<sup>+19</sup>, RVC18, RPM<sup>+19</sup>, SSHEM11, SWM<sup>+15</sup>, SSC17, SJSA<sup>+14</sup>, VSS17, VSDS<sup>+19a</sup>, VDD<sup>+18</sup>, VC17, WMD<sup>+18</sup>, WYZ<sup>+19</sup>, YFA<sup>+17</sup>, YZW<sup>+19</sup>, YK12, ZCJ<sup>+18</sup>, ZWL<sup>+16</sup>]. **aeruginosa** [BSSB18, BSD<sup>+18c</sup>]. **aestuarianus** [ZQB<sup>+11</sup>]. **aetiological** [CCLGRM<sup>+17</sup>, QXW14]. **aetiology** [LGS<sup>+14</sup>]. **affect** [FCJH19, HHO14, JOF<sup>+19</sup>, SFR<sup>+17</sup>]. **affected** [ACN12, CSS<sup>+16</sup>, DPTFC10, HOHG13, JR19, OCLI<sup>+19</sup>, RHS<sup>+12</sup>, SJT14]. **affecting** [JFWH19, RAM<sup>+18</sup>, RSF<sup>+17</sup>, SVM<sup>+18</sup>]. **aflatoxin** [BSD<sup>+18d</sup>]. **Africa** [HGPDI1, HOHG13, HWO<sup>+17</sup>, MCCN14]. **African** [BHA<sup>+11</sup>, HOHG13, MWS17, OAO<sup>+12</sup>, RSR<sup>+18</sup>, WTM14]. **after** [BHO<sup>+19</sup>, DPCdR14, ELI<sup>+17</sup>, FHZ<sup>+16</sup>, GFM<sup>+16</sup>, GMN12, HKBD15b, JMF<sup>+18</sup>, JSAH<sup>+18</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, NSE<sup>+17</sup>, TQW<sup>+14</sup>, TMC<sup>+12</sup>, VCN<sup>+10</sup>, YYW<sup>+14</sup>]. **against** [ASHZ<sup>+12</sup>, ANB<sup>+19</sup>, BBF<sup>+15</sup>, BYAS<sup>+19</sup>, BVK<sup>+16</sup>, BE19, Buc12, BLFC12, CCLGRM<sup>+17</sup>, CHH<sup>+14</sup>, CHV<sup>+12</sup>, CCH<sup>+19</sup>, CGR17, CCLL16, CGW<sup>+19</sup>, CKTT10, CKvGJB17, ÇOÇ<sup>+16</sup>, CSCCA14, CSSWK10, DD18, DLP<sup>+13</sup>, ESA<sup>+10</sup>, EDV<sup>+18</sup>, ERÁpSB14, FLCC<sup>+14</sup>, FHD13, GCNB16, HDC18, HLL<sup>+12</sup>, HCL<sup>+14</sup>, HJN<sup>+19</sup>, HLC<sup>+15</sup>, HBH<sup>+19</sup>, JST<sup>+19</sup>, JAR<sup>+11</sup>, JOF<sup>+19</sup>, KSS<sup>+15</sup>, LPA<sup>+10</sup>, LKS<sup>+13</sup>, LRC<sup>+18</sup>, LXHL11, LHW<sup>+12</sup>, LLL<sup>+18a</sup>, MMS<sup>+16</sup>, MTK<sup>+10</sup>, MID<sup>+19b</sup>, MA16, NPGA<sup>+19</sup>, NNC<sup>+18</sup>, OMB<sup>+19</sup>, PZL<sup>+14</sup>, PSBG<sup>+11</sup>, RPMRLJ<sup>+19</sup>, RSGB<sup>+14</sup>, RBH<sup>+17</sup>, SHS14, SJDC<sup>+13</sup>, SMR10, SGB<sup>+16</sup>, SLKE10, SSSP18, SNM<sup>+16</sup>, SWS<sup>+16</sup>, SRD<sup>+16</sup>, SRB12,

TFG19, VDO<sup>+</sup>18b, VDO<sup>+</sup>18a, WBF<sup>+</sup>10, WCR<sup>+</sup>18, WM19, WHR<sup>+</sup>18, WSA<sup>+</sup>18, XZZ16, YLX<sup>+</sup>19b, ZWG<sup>+</sup>18]. **agalactiae** [DDBC<sup>+</sup>15, AAZS<sup>+</sup>15, AZSI<sup>+</sup>12, AZSSZZ13, ATP<sup>+</sup>17, BSD<sup>+</sup>18b, BMMC<sup>+</sup>15, BFFA<sup>+</sup>12, BDB<sup>+</sup>18, CWL<sup>+</sup>17, CZL<sup>+</sup>19, DZC<sup>+</sup>16, HZX<sup>+</sup>13, ICSV16, LLH<sup>+</sup>14a, LLH<sup>+</sup>14b, LLX<sup>+</sup>19, LLL<sup>+</sup>18a, MoSMS18, NYRS12, SFL<sup>+</sup>16, SPS<sup>+</sup>19, VMBGIC19, VJWC<sup>+</sup>18, XXL<sup>+</sup>19, ZKL<sup>+</sup>19]. **Agassiz** [RHSM<sup>+</sup>18a]. **AGD** [ACN12, CHWM<sup>+</sup>19]. **Age** [JHW17]. **agent** [ACM<sup>+</sup>14, CCLGRM<sup>+</sup>17, CPP14, GTT<sup>+</sup>17, GCGR13, HWM<sup>+</sup>13, JFWH19, KEY<sup>+</sup>15, MFS<sup>+</sup>17, MSS<sup>+</sup>17a, NLF11, RGD<sup>+</sup>13, SSF<sup>+</sup>17, SWD<sup>+</sup>14, TVK<sup>+</sup>19, WCR<sup>+</sup>18, WEPB<sup>+</sup>18, ZWG<sup>+</sup>17]. **agent-based** [GCGR13]. **agents** [HH13a, HBS<sup>+</sup>14, SSC17]. **agreement** [JWO<sup>+</sup>10]. **AHPND** [BPK<sup>+</sup>17, ITKH18]. **AIP1** [SRSF10]. **air** [LWMT10]. **Aires** [Lek12]. **akaara** [GHH<sup>+</sup>11]. **al** [JCN<sup>+</sup>14, KRFT14]. **AL09** [YK12]. **AL09-73** [YK12]. **Alaska** [PPE<sup>+</sup>18]. **Albendazole** [ANB<sup>+</sup>19]. **albigutta** [DBHC17]. **Albufera** [BSC<sup>+</sup>14]. **Algamune<sup>TM</sup>** [YSHG18]. **Algeria** [KCD<sup>+</sup>14]. **alginolyticus** [CLWJ13, CLW<sup>+</sup>11, HGX<sup>+</sup>19, LSC<sup>+</sup>14, PKLH19, YLX<sup>+</sup>19a, YLS<sup>+</sup>19]. **alive** [CBM<sup>+</sup>18]. **Alix** [SRSF10]. **Alix/** [SRSF10]. **alleles** [LLZW14]. **allicin** [NDA10]. **allis** [WBE<sup>+</sup>17, WEPB<sup>+</sup>18]. **Allium** [MSCH14]. **allogynogenetic** [LJHG14, ZWLG10, ZYW<sup>+</sup>10]. **along** [FSM<sup>+</sup>16]. **Alosa** [WBE<sup>+</sup>17, WEPB<sup>+</sup>18]. **alpha** [LSA<sup>+</sup>15]. **alpha-2-macroglobulin** [LSA<sup>+</sup>15]. **alphavirus** [Ano10c, BTC<sup>+</sup>17, CGR17, GFW<sup>+</sup>10, GFM<sup>+</sup>11, GFR<sup>+</sup>12, GRF14, HFT<sup>+</sup>12, HST<sup>+</sup>13, HJT<sup>+</sup>16, JTW<sup>+</sup>10, JJB15, MIO<sup>+</sup>18, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SBH<sup>+</sup>16, SHV<sup>+</sup>16, TJB<sup>+</sup>15]. **alpinus** [SWM<sup>+</sup>15, WKK12]. **also** [GCM<sup>+</sup>18b]. **alter** [PPF<sup>+</sup>12]. **alterations** [LvD18]. **altered** [SSK17]. **alternative** [CB13]. **alternifolia** [BSD<sup>+</sup>18c, VGI<sup>+</sup>16]. **altivelis** [FNISE12, KSS<sup>+</sup>15, ZCC18, CONN10, FNISE12, KSS<sup>+</sup>15, ZCC18]. **Aluminium** [MGF17]. **alvei** [OSC<sup>+</sup>14]. **Amago** [IOO15]. **Amazon** [MdOO16, OMB<sup>+</sup>19, PdSG<sup>+</sup>12, dSdAdS<sup>+</sup>19]. **amberjack** [MKH<sup>+</sup>11, NMM<sup>+</sup>18, dSRSHGá<sup>+</sup>19]. **ambigua** [HBB14]. **Ameiurus** [BPF<sup>+</sup>18, PHR14]. **amended** [GDN<sup>+</sup>16]. **America** [EKT<sup>+</sup>11]. **American** [CG11, DKBS17, GL18, KPKP10, KWD<sup>+</sup>16, LML12, SQC<sup>+</sup>14]. **American-HPR0** [GL18]. **americanus** [CG11, SQC<sup>+</sup>14]. **amine** [FHZ<sup>+</sup>16]. **Amino** [SOGR<sup>+</sup>19]. **ammonia** [FSO<sup>+</sup>10, SRB12]. **Ammonium** [RHS<sup>+</sup>12, MoSMS18]. **amoeba** [DT16, LTC16, LTC17]. **amoebae** [FMM<sup>+</sup>19]. **Amoebic** [CONN10, TCC10a, ACN12, BPCS19, DYML<sup>+</sup>18, MLER<sup>+</sup>18, MCCN14, NBJ10, WNO<sup>+</sup>18]. **Amoebozoa** [CPP14]. **among** [ADR11, OEG<sup>+</sup>13, PPSW19, SMJ<sup>+</sup>12, SCD19, SVY<sup>+</sup>14]. **amongst** [KBTMH<sup>+</sup>16]. **Amphiprion** [BRMG13, SBK<sup>+</sup>15]. **amplification** [HJOK11, HGG<sup>+</sup>11, JYZ<sup>+</sup>14, KTN<sup>+</sup>16, LLWL15, MSI<sup>+</sup>15, OBR<sup>+</sup>14, WSX<sup>+</sup>18, YWW<sup>+</sup>19]. **ampullary** [CBC<sup>+</sup>13]. **Amyloid** [CBFM16, RTM<sup>+</sup>15]. **Amyloid-like** [CBFM16]. **Amyloodinium** [MSS<sup>+</sup>17b, YB17]. **anadromous** [áKÁGA16]. **Anaemia** [CCCTA<sup>+</sup>14, LLG18, ADF14, ADMF15, ATM<sup>+</sup>10, EYF<sup>+</sup>19, GL18, GCS<sup>+</sup>18, HWM<sup>+</sup>13, IOO15, MMWK19, MAC<sup>+</sup>15, MTHB13, OBFR12, SG12, VDMJ<sup>+</sup>13, XQS<sup>+</sup>15]. **anal** [CAJD<sup>+</sup>18, FPK<sup>+</sup>17]. **analyses**

[NRMS14, RHVG<sup>+19</sup>b, STIG17, YEK<sup>+17</sup>]. **Analysing** [MLH<sup>+15</sup>]. **Analysis** [FCL<sup>+19</sup>, YM<sup>H+11</sup>, ATM<sup>+10</sup>, ACAS14, ASB<sup>+12</sup>, BC11, CIL<sup>+17</sup>, CGP<sup>+19</sup>, CMEV17a, CMS<sup>+17</sup>, CMEV17b, ECP<sup>+10</sup>, FGJ<sup>+10</sup>, FMA<sup>+19</sup>, GPL<sup>+12</sup>, IBFL19, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JK<sup>H+17</sup>, KKM<sup>+19</sup>, KRFT14, LGD<sup>+17</sup>, LCV<sup>+17</sup>, LMG<sup>+19</sup>, LITCAH19b, LKT<sup>+13</sup>, MFS<sup>+17</sup>, MBT<sup>+17</sup>, MMH10, NSE<sup>+17</sup>, NSC<sup>+18</sup>, NMM<sup>+18</sup>, PHvdH12, PKLH19, PSVK<sup>+18</sup>, PJU<sup>+13</sup>, RKK<sup>+19</sup>, SHKF16, SOA<sup>+18</sup>, TCFÁS19, TDT<sup>+16</sup>, VC17, WMM<sup>+16</sup>, WMD<sup>+18</sup>, WZA10, XJL<sup>+19</sup>, YAHWU11, ZJR<sup>+18</sup>, ZCJ<sup>+18</sup>]. **analytical** [BHA<sup>+17</sup>]. **anatomy** [FPK<sup>+17</sup>, LGS<sup>+14</sup>]. **anchovy** [RGMGG<sup>+18</sup>]. **Ancyrocephalus** [BGRB14]. **and/or** [HKBD15a, HKBD15b]. **angasi** [BWP<sup>+19</sup>b]. **AngHV** [KYK<sup>+12</sup>, NJK<sup>+17</sup>]. **AngHV-1** [KYK<sup>+12</sup>, NJK<sup>+17</sup>]. **angio** [ASW16]. **angio-architecture** [ASW16]. **angilipoma** [RhAS<sup>+15</sup>]. **anglerfish** [FYO<sup>+11</sup>, LRAP17]. **Anguilla** [ARFG13, BSC<sup>+14</sup>, BMD<sup>+14</sup>, BND<sup>+17</sup>, BDM<sup>+18</sup>, CSA<sup>+15</sup>, DMB<sup>+16</sup>, EMA17, FDST16, GFM<sup>+16</sup>, KYK<sup>+12</sup>, KPK<sup>+18</sup>, KLD<sup>+18</sup>, KAST17, LML12, MBD16, MFES18, MWS17, NJK<sup>+17</sup>, OMO<sup>+15</sup>, PW<sup>H</sup>W18b, SWE<sup>+19</sup>, WCW<sup>+16</sup>b]. **anguillae** [MWS17, NJK<sup>+17</sup>]. **anguillarum** [ACLP<sup>+19</sup>, BVK<sup>+16</sup>, BFC<sup>+15</sup>, CCH<sup>+19</sup>, CKTT10, CDG<sup>+14</sup>, FMB<sup>+11</sup>, HRL15, JQK14, RGD<sup>+12</sup>, RRO<sup>+13</sup>, SCS<sup>+12</sup>, TMC<sup>+12</sup>, WM19, ZXW<sup>+12</sup>]. **anguillicaudatus** [ZWL<sup>+16</sup>]. **Anguillicola** [BMD<sup>+14</sup>, BND<sup>+17</sup>]. **Anguillicoloides** [FDST16, LML12, LFP<sup>+11</sup>a, LFP<sup>+11</sup>b]. **anguillid** [KYK<sup>+12</sup>, vBVLR<sup>+16</sup>, MFES18, KAST17]. **anguilliseptica** [ARFG13]. **angulospora** [SBP<sup>+19</sup>]. **animal** [RAM<sup>+19</sup>]. **animals** [LTG<sup>+18</sup>, LTM<sup>+19</sup>, SAS<sup>+19</sup>, THW<sup>+12</sup>]. **anisakiasis** [KHS11]. **Anisakidae** [MGH<sup>+14</sup>, SDZN19]. **Anisakis** [MGH<sup>+14</sup>]. **anisitsi** [Lek12]. **annectens** [RSR<sup>+18</sup>]. **anomalies** [ACA<sup>+16</sup>, BC11, dALF<sup>+17</sup>]. **anomaly** [AAV<sup>+16</sup>]. **anterior** [PAM<sup>+19</sup>, PRSK10]. **Anthony** [Rob11]. **Anthropogenic** [KAST17, MMMD16]. **anti** [BSB<sup>+18</sup>, DJQ<sup>+12</sup>, MDF<sup>+17</sup>, NPGA<sup>+19</sup>]. **anti-apoptotic** [DJQ<sup>+12</sup>]. **anti-inflammatory** [BSB<sup>+18</sup>, MDF<sup>+17</sup>]. **Anti-PirA-like** [NPGA<sup>+19</sup>]. **Antibacterial** [LWJ<sup>+16</sup>, LLL<sup>+12</sup>, SHS14, ZZQ<sup>+19</sup>]. **Antibiotic** [CDW17, CYS17, CIL<sup>+17</sup>, FCL<sup>+19</sup>, HKB<sup>+16</sup>, NB11, RHBMM13, SK15, SFF<sup>+17</sup>, ZCJ<sup>+18</sup>, ZDWH18]. **antibiotic-resistant** [RHBMM13]. **antibiotics** [AAZS<sup>+15</sup>, LRS<sup>+17</sup>, SHS14]. **antibodies** [CLC<sup>+17</sup>, ERÁpSB14, HLC<sup>+15</sup>, LCR<sup>+10</sup>, ZWG<sup>+18</sup>]. **Antibody** [GSEM13, SSHEM11, Ano12c, BWZ<sup>+17</sup>, BRB<sup>+12</sup>, CGR17, CCLL16, ELI<sup>+17</sup>, EDV<sup>+18</sup>, KSS<sup>+15</sup>, KJW<sup>+17</sup>, MF12, PSK<sup>+13</sup>, TCC10a]. **antibody-based** [PSK<sup>+13</sup>]. **Antibody-coated** [SSHEM11]. **Antifungal** [BAH<sup>+16</sup>]. **antigen** [CR12, DMD<sup>+17</sup>, HCL<sup>+14</sup>, MSC<sup>+17</sup>, SGB<sup>+16</sup>, TQW<sup>+14</sup>, ZXW<sup>+12</sup>]. **antigenic** [JKC<sup>+11</sup>]. **Antigens** [MLEM16, áKÁGA16, KREM14, LMAKN16, RBAT<sup>+17</sup>]. **Antimicrobial** [BYAS<sup>+19</sup>, CMH<sup>+17</sup>, DBV<sup>+13</sup>, NSB<sup>+18</sup>, DMP10, PMK12, RHTC19b, SW11, UN10, ZN10]. **antioomycete** [ZN10]. **antioxidant** [BSD<sup>+18</sup>c, BA14]. **antioxidative** [LMC<sup>+16</sup>]. **Antiparasitic** [UN10, HBS<sup>+14</sup>, MDF<sup>+17</sup>, ZN10]. **antiparasitics** [GOM<sup>+19</sup>]. **Antiviral**

[HDC18, RBH<sup>+</sup>17, SJDC<sup>+</sup>13, SVL<sup>+</sup>17, YLX<sup>+</sup>19b]. **aorta** [DKG<sup>+</sup>17].  
**Aphanomyces** [SMKBP17, VDHV<sup>+</sup>16, VDH19]. **Apicomplexa**  
[MdOO16, dSdAdS<sup>+</sup>19]. **aplasia** [FFP<sup>+</sup>14]. **apolipoprotein** [LSC<sup>+</sup>14].  
**Apoptosis** [DRG<sup>+</sup>17, CXW<sup>+</sup>19, DJQ<sup>+</sup>12, RBL<sup>+</sup>11, WCL<sup>+</sup>19]. **apoptotic**  
[DJQ<sup>+</sup>12]. **Apostichopus** [LQL<sup>+</sup>10]. **apparatus** [YK12]. **applicability**  
[CPdPP16]. **Application** [CDG<sup>+</sup>14, LRS<sup>+</sup>17, MMBS10, CLWJ13,  
CCCTA<sup>+</sup>14, dSCBdS<sup>+</sup>16, FSG<sup>+</sup>12, GHW<sup>+</sup>15, LML<sup>+</sup>13, MoSMS18, NMiy14,  
PPK<sup>+</sup>13, SCK13, WCR<sup>+</sup>18, ZCC<sup>+</sup>15]. **Applications** [Spe19a]. **applied**  
[GOM<sup>+</sup>19, MSCH14]. **approach**  
[JMD<sup>+</sup>18, LRMN17, LHW<sup>+</sup>15b, OLVJ<sup>+</sup>13, WWE<sup>+</sup>13]. **approaches**  
[CRBLIC<sup>+</sup>17, ZXW<sup>+</sup>12]. **apta** [YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **apta-sorbent**  
[YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **aptamer** [YGL<sup>+</sup>18, YLX<sup>+</sup>19a, ZLN<sup>+</sup>17].  
**aptamer-based** [YLX<sup>+</sup>19a]. **aptamers** [HMP<sup>+</sup>12, YLS<sup>+</sup>19]. **Aquaculture**  
[Spe19a, BTN<sup>+</sup>18, BMBS12, DVC<sup>+</sup>17, GJMH17, GDW<sup>+</sup>15, JJM<sup>+</sup>17,  
JSAB<sup>+</sup>19, KOS<sup>+</sup>10, MSBB<sup>+</sup>16, MBS<sup>+</sup>17, MSCH14, OT12, PSVK<sup>+</sup>18,  
QZZ<sup>+</sup>18b, RAM<sup>+</sup>18, SMR16, SBK<sup>+</sup>15, TJA<sup>+</sup>13, WCR<sup>+</sup>18, ZCQF15].  
**Aquaflor(R)** [DBS12]. **AquaPathogen** [EKT<sup>+</sup>11]. **aquareovirus**  
[PWW19]. **aquaria** [SMJ<sup>+</sup>14]. **aquarium**  
[DSJA18, KJB11, KZJ<sup>+</sup>17, ONGQ<sup>+</sup>14, PBW<sup>+</sup>18, TIK<sup>+</sup>14a].  
**aquarium-held** [KJB11]. **aquarium-maintained** [TIK<sup>+</sup>14a]. **aquatic**  
[EKT<sup>+</sup>11, EMA17, LRS<sup>+</sup>17, LTG<sup>+</sup>18, LTM<sup>+</sup>19, PJL<sup>+</sup>12, THW<sup>+</sup>12].  
**aqueous** [YLX<sup>+</sup>19b]. **AQUI** [CAS<sup>+</sup>18]. **AQUI-S(R)** [CAS<sup>+</sup>18]. **Arabian**  
[CIA<sup>+</sup>18]. **arabicum** [CIA<sup>+</sup>18]. **Arborescent** [OOO<sup>+</sup>11]. **archamoebae**  
[CPdPP16]. **architecture** [ASW16]. **archived** [TVK<sup>+</sup>19]. **Arctic**  
[KOB<sup>+</sup>17, SWM<sup>+</sup>15, SVL<sup>+</sup>17, WKK12]. **area** [JR19, SMR16]. **areas**  
[DMK<sup>+</sup>19]. **arenaria** [MMD16]. **argenteus** [LJC<sup>+</sup>19]. **Argentina**  
[CCMA<sup>+</sup>17, TB12]. **argentine** [TB12]. **argus** [DIH<sup>+</sup>16, LL12].  
**Argyrosomus** [EKS<sup>+</sup>13, TAQ<sup>+</sup>10]. **aromatic** [PVIM18]. **arowana**  
[KVC<sup>+</sup>16]. **array** [LFH<sup>+</sup>11]. **array-based** [LFH<sup>+</sup>11]. **artedi** [WKW<sup>+</sup>11].  
**Artemia** [TNK12, WBF<sup>+</sup>10]. **arteries** [BOH<sup>+</sup>12, DRdS<sup>+</sup>10].  
**Arteriosclerosis** [DKG<sup>+</sup>17]. **arteriosus** [DKG<sup>+</sup>17, YP17]. **arthromitus**  
[DPTFC10]. **Arthrospira** [RBH<sup>+</sup>17]. **artificially** [BLFRCQ10].  
**arugamensis** [KCL14]. **AsaP1** [SWM<sup>+</sup>15]. **AsaP1-toxoid** [SWM<sup>+</sup>15].  
**Ascanius** [BT14, RSP<sup>+</sup>17, RSM<sup>+</sup>18, TB12]. **ascidian** [KOS<sup>+</sup>10, PZL<sup>+</sup>14].  
**ascidians** [KOS<sup>+</sup>10]. **Ascomycota** [RKH16]. **Asia** [DMK<sup>+</sup>19, SDM<sup>+</sup>19].  
**Asian** [CCW<sup>+</sup>15, CCW<sup>+</sup>15, GKCC<sup>+</sup>12, KNN19]. **ASK**  
[BAMYAH19, CCCTA<sup>+</sup>14, SDR<sup>+</sup>15]. **asp** [MAOS<sup>+</sup>18]. **aspartate** [ZCJ<sup>+</sup>18].  
**aspects** [GJVT<sup>+</sup>11, PMBM13, PMP<sup>+</sup>18, SVY<sup>+</sup>14]. **aspera** [CR12].  
**aspiration** [ALG15]. **Aspius** [MAOS<sup>+</sup>18]. **assay**  
[AS17, ASS19, BWZ<sup>+</sup>17, CDF<sup>+</sup>18, CCCTA<sup>+</sup>14, DPMK12, DSLR16, FSO<sup>+</sup>10,  
GM10, GDN<sup>+</sup>16, JKS<sup>+</sup>13, KBJ<sup>+</sup>13, LFH<sup>+</sup>11, LLWL15, LXX<sup>+</sup>17, MMBS10,  
MSI<sup>+</sup>15, NMM<sup>+</sup>18, SMF<sup>+</sup>10, SFL<sup>+</sup>16, YWW<sup>+</sup>19, YLX<sup>+</sup>19a, ZFZ<sup>+</sup>11,  
ZLN<sup>+</sup>17, vBVLR<sup>+</sup>16]. **assays**  
[CHAB10, DCL<sup>+</sup>17, EAM<sup>+</sup>13, GJK<sup>+</sup>11, LPCC12, NMiy14, SK15].

**assembling** [LRD<sup>+19</sup>]. **assembly** [FFLC17, KREM14, PLCC11]. **assess** [BFC<sup>+15</sup>, JKH<sup>+17</sup>, SMM<sup>+13</sup>]. **assessed** [GDN<sup>+16</sup>]. **Assessing** [GMC<sup>+16b</sup>, YLL<sup>+18</sup>]. **Assessment** [DBS12, MBS<sup>+19a</sup>, AAV<sup>+16</sup>, DCG18, MMH<sup>+18</sup>, NJK<sup>+17</sup>, PNBK13, RCD<sup>+17</sup>, SCF<sup>+13</sup>, SGB<sup>+16</sup>]. **assessments** [WWE<sup>+13</sup>]. **assignment** [LWWS14, LGD<sup>+17</sup>]. **assisted** [CMEV17a, CMEV17b]. **Asso** [EKS<sup>+13</sup>, TAQ<sup>+10</sup>, VPP<sup>+12</sup>]. **associated** [ACLP<sup>+19</sup>, AHB<sup>+17</sup>, BKG<sup>+18</sup>, BB11, BA13, BK12, BMA13, BVT<sup>+18</sup>, BVL<sup>+18</sup>, CBC<sup>+13</sup>, CDM<sup>+16</sup>, CKTT10, CSA<sup>+15</sup>, CG11, CMR<sup>+16</sup>, DSMC17, DML<sup>+16</sup>, DYML<sup>+18</sup>, DT16, FCL<sup>+19</sup>, GDW<sup>+15</sup>, HBB14, HSA17, HBB<sup>+15</sup>, HSHC<sup>+16</sup>, JYZ<sup>+14</sup>, KCD<sup>+14</sup>, KOB<sup>+17</sup>, KRD<sup>+17</sup>, LGK<sup>+14</sup>, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, LLZW14, LXL<sup>+18</sup>, LDEH17, LFL19, LLL<sup>+13</sup>, MLMR16, MLER<sup>+18</sup>, MRSC13, MSR<sup>+10</sup>, MKH<sup>+11</sup>, MTLP<sup>+18b</sup>, MCO11, MMW<sup>+15</sup>, OAO<sup>+12</sup>, ONGQ<sup>+14</sup>, ONA10, PAM<sup>+19</sup>, PCK<sup>+15</sup>, QXW14, RCGGM15, RKPG16, RSPA<sup>+18</sup>, RTM<sup>+15</sup>, STF<sup>+15</sup>, SBM<sup>+11</sup>, SDZN19, SWE<sup>+19</sup>, SPV<sup>+18</sup>, SKGE13, SRT<sup>+14</sup>, TGJCH15, VJWC<sup>+18</sup>, VFB<sup>+12</sup>, VME<sup>+19</sup>, WNLF<sup>+12</sup>, XQS<sup>+15</sup>, XLZ<sup>+17</sup>, YYF<sup>+10</sup>, ZZC<sup>+17</sup>, ZJDL18, ZSZF16, ZxYJ<sup>+19</sup>]. **Association** [CPB<sup>+15</sup>, MTG<sup>+10</sup>, CHF<sup>+12</sup>, FCC<sup>+13</sup>, FFLC17, MCO11, SL15]. **associations** [KNN19]. **astaci** [SMKBP17, VDHV<sup>+16</sup>]. **Astacus** [OSC<sup>+14</sup>]. **Astronotus** [RHSM<sup>+18a</sup>]. **asymmetric** [YGL<sup>+18</sup>]. **asymptomatic** [LJGRI<sup>+10</sup>, WIC<sup>+19</sup>]. **ater** [SDZN19]. **atherinoides** [HAP<sup>+10</sup>, LRB<sup>+17</sup>, MGN<sup>+16</sup>]. **atherinoidi** [LRB<sup>+17</sup>]. **atherosclerosis** [DBHC17]. **Atlantic** [JCN<sup>+14</sup>, VCS<sup>+19</sup>, ACN12, ACA<sup>+16</sup>, AAV<sup>+16</sup>, AFA<sup>+12</sup>, ASSP<sup>+15</sup>, Ano10c, ACM<sup>+14</sup>, BSWS11, BRL<sup>+13</sup>, BHO<sup>+19</sup>, BSSH17, BOH<sup>+12</sup>, BA13, BBP18, BMT<sup>+15</sup>, BTC<sup>+17</sup>, BHA<sup>+17</sup>, BNS13, BDD<sup>+18</sup>, BSBH10, CBLN13, CJB<sup>+15</sup>, CNN<sup>+10</sup>, CGR17, CHWM<sup>+19</sup>, CZB<sup>+11</sup>, CRAG<sup>+12</sup>, DTF<sup>+16</sup>, DKG<sup>+17</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DRG<sup>+17</sup>, DYML<sup>+18</sup>, ESBE18, ECP<sup>+10</sup>, EWRH13, ELI<sup>+17</sup>, EDV<sup>+18</sup>, ESV<sup>+19b</sup>, FMM<sup>+19</sup>, FvdMF<sup>+18</sup>, FSM<sup>+16</sup>, FFP<sup>+14</sup>, FHFF15, FMH<sup>+15</sup>, FGR<sup>+12</sup>, FSV<sup>+18</sup>, FSB<sup>+18c</sup>, GL18, GFO<sup>+13</sup>, GFS<sup>+18</sup>, GMC<sup>+16a</sup>, GVB<sup>+17b</sup>, GIW<sup>+11</sup>, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GCMG<sup>+11</sup>, GMC<sup>+16b</sup>, GFW<sup>+10</sup>, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13, GGGM14, HHO14, HLHS11, HKD<sup>+10</sup>, HSA17, HST<sup>+13</sup>, IAR<sup>+10</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JMF<sup>+18</sup>, JBO<sup>+15</sup>, JOF<sup>+19</sup>, JNS<sup>+19</sup>, JR19, JHGR13, JJSJ15, KOB<sup>+17</sup>, KAF<sup>+19</sup>, KHG<sup>+17</sup>, KSA<sup>+10</sup>, KRFT14, KBD13, KWD<sup>+16</sup>, LGK<sup>+14</sup>, LDÁM14]. **Atlantic** [LAN<sup>+14</sup>, LMG<sup>+19</sup>, LLLG18, LDA<sup>+19</sup>, LRAP17, MVM<sup>+18</sup>, MKI<sup>+15</sup>, MIO<sup>+18</sup>, MMWK19, MSMM19, MSG<sup>+18</sup>, MLMR16, MLER<sup>+18</sup>, MSBB<sup>+16</sup>, MLF<sup>+10</sup>, MMD16, MMD<sup>+12</sup>, MRSC13, MAC<sup>+15</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSR<sup>+10</sup>, MGH<sup>+14</sup>, MMH10, NCNB18, NB10, ONGQ<sup>+14</sup>, ONA10, PSZ<sup>+14</sup>, PdLC19, PBMB11, PHVM13, PPK<sup>+13</sup>, PPI<sup>+13</sup>, PG16, PÅD18, PJU<sup>+13</sup>, RB15, RGMGG<sup>+18</sup>, RMR14, RBR19, RRG<sup>+19</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, RBWR<sup>+15</sup>, SMR10, SMM<sup>+13</sup>, SFR<sup>+17</sup>, SAS<sup>+19</sup>, SFU<sup>+13</sup>, SG12, SQC<sup>+14</sup>, SAD<sup>+12</sup>, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, SCZM19, SSA13, SSL18, SNK<sup>+19</sup>,

TWNB<sup>+</sup>12, TJB<sup>+</sup>15, TCC10a, TB12, TES11, TCM<sup>+</sup>19, UMMS17, USM17, UKS<sup>+</sup>18, VSDS<sup>+</sup>19a, VDMJ<sup>+</sup>13, VMBGE17, WDM<sup>+</sup>15, WMM<sup>+</sup>16, WHR<sup>+</sup>18, WNLF<sup>+</sup>12, WNSAL12, WNAF<sup>+</sup>13, WNMK<sup>+</sup>16, WNAJ<sup>+</sup>16, WNGS<sup>+</sup>17, WOD16, WNO<sup>+</sup>18, YP17, ZCCN13, ZCC<sup>+</sup>15, ZNHC11a, ZNHC11b, ZCP12]. **atlanticus** [BCW<sup>+</sup>15]. **ATP** [PLCC11]. **atresia** [CZB<sup>+</sup>11]. **attachment** [PMBM13, TGJCH15]. **Attempted** [GM11]. **Attenuated** [CSSWK10, CGW<sup>+</sup>19, GPL<sup>+</sup>12, LLX<sup>+</sup>19, MBS<sup>+</sup>19a, ZXW<sup>+</sup>12]. **attenuation** [MSG<sup>+</sup>18]. **attributes** [BFC<sup>+</sup>15]. **Atypical** [HKK<sup>+</sup>11a, BVK<sup>+</sup>16, DKBS17, GLW<sup>+</sup>18, GGH<sup>+</sup>10, MLWC11, RVC18, VDD<sup>+</sup>18, YFA<sup>+</sup>17]. **audit** [EWRH13]. **aurata** [BC11, CVLJ<sup>+</sup>10, CVGR<sup>+</sup>13, CCME16, DdRTM13, DPCdR14, LGS<sup>+</sup>14, MSS<sup>+</sup>17b, RHVG<sup>+</sup>19b, TPD<sup>+</sup>19]. **auratus** [KKOY19, KJW<sup>+</sup>17, LJHG14, NSS<sup>+</sup>17, WXL16, ZWLG10, BBL<sup>+</sup>16, GAEK<sup>+</sup>14, LCR<sup>+</sup>10, RMAM12, WIC<sup>+</sup>19, YNL11, ZWLG10]. **aureamaculosa** [HSGD11]. **aureus** [OAO<sup>+</sup>12, OGI<sup>+</sup>18, SL15]. **auriga** [LJGRI<sup>+</sup>10]. **Austin** [ABF15]. **Australia** [BFFA<sup>+</sup>12, BDB<sup>+</sup>18, HSGD11, MSS<sup>+</sup>17a, NB11, OLC11]. **Australian** [CSA<sup>+</sup>15, HO13, JFWH19, KMGK<sup>+</sup>18, MMG<sup>+</sup>11, MCO11, NSC<sup>+</sup>15, RWTB17, SFF<sup>+</sup>17]. **australis** [CSA<sup>+</sup>15, Dig13, Dig15, Pol15]. **Austria** [LUP<sup>+</sup>18]. **autogenous** [FLC<sup>+</sup>17, RPMRLJ<sup>+</sup>19]. **Autophagy** [BCLM<sup>+</sup>19]. **Autophagy-related** [BCLM<sup>+</sup>19]. **Avenir** [DAO19]. **Avenir-Oldewage** [DAO19]. **Avermectins** [OMB<sup>+</sup>19]. **avidus** [LPC<sup>+</sup>18]. **avirulent** [FNISE12]. **avium** [JK12]. **axelrodi** [LLG<sup>+</sup>15, ŘKH17]. **axillary** [RVB13]. **ayu** [CONN10, FNISE12, KSS<sup>+</sup>15, ZCC18]. **Azumiobodo** [PZL<sup>+</sup>14].

**B** [JCN<sup>+</sup>14, BSD<sup>+</sup>18d]. **B.** [OSAA18]. **Bacescu** [FŠK<sup>+</sup>19]. **Bacillus** [OSAA18]. **Back** [BWP<sup>+</sup>19a, RHTC19a, PBBG19]. **bacteria** [DSSB18, EEMCEGSP16, PSBG<sup>+</sup>11, RHBMM13, STIG17, THW<sup>+</sup>12, TDLT<sup>+</sup>16, WZQ<sup>+</sup>16, YkSKY13, ZJDL18]. **Bacterial** [LST<sup>+</sup>12, RGD<sup>+</sup>12, SWH<sup>+</sup>14, BSSH17, BLFC12, BSBH10, CHV<sup>+</sup>12, DSA<sup>+</sup>12, DAB<sup>+</sup>12, GCNB16, GPFGAG19, GDW<sup>+</sup>15, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, KOB<sup>+</sup>17, LFH<sup>+</sup>11, LFL19, MFS<sup>+</sup>17, MDC<sup>+</sup>18, NFA15, PBC15, PHW<sup>+</sup>16, QWTL17, RSH11, RHB<sup>+</sup>15, VCN<sup>+</sup>10, WMM17, ZZA<sup>+</sup>14]. **bacterially** [SSV<sup>+</sup>10, TMM<sup>+</sup>15]. **bacterin** [PVIM18, SLKE10, WGL17]. **Bacteriological** [MCSM17, AdOG<sup>+</sup>17, EAM<sup>+</sup>13]. **Bacteriophage** [SPCR<sup>+</sup>19, EDP<sup>+</sup>17, HY16, LLL<sup>+</sup>18a]. **Bacteriophage-based** [SPCR<sup>+</sup>19]. **Bacteriovorax** [CHH<sup>+</sup>14]. **bacterium** [CSS<sup>+</sup>16, CHH<sup>+</sup>14, LDEH17, SPV<sup>+</sup>18]. **baculovirus** [RDN<sup>+</sup>12]. **Balantiocheilus** [RTM<sup>+</sup>15]. **ballan** [BT14, RSM<sup>+</sup>18, SRM<sup>+</sup>18, BVK<sup>+</sup>16, RSP<sup>+</sup>17]. **Baltic** [AHB<sup>+</sup>17, BMGS17, BK12, GJVT<sup>+</sup>11, OBD10]. **Bangweulu** [HHC<sup>+</sup>18]. **barb** [SMD<sup>+</sup>12]. **barbel** [ZPM<sup>+</sup>18]. **Barbonymus** [ARR<sup>+</sup>18]. **Barbus** [ZPM<sup>+</sup>18]. **barcoo** [KRD<sup>+</sup>17, LLH<sup>+</sup>14b, KRD<sup>+</sup>17, LLH<sup>+</sup>14b]. **barfin** [KKK<sup>+</sup>18]. **barotrauma** [HBB14, HFKF17, PSK<sup>+</sup>12]. **barracuda** [GMP<sup>+</sup>11, GMP<sup>+</sup>11]. **barramundi** [BO15, JHW17, TGJCH15]. **barrier**

[BSSB18, JSAH<sup>+</sup>18]. **base** [MMNL14]. **based** [AS17, COÇ<sup>+</sup>16, DPMK12, DIVC16, ELI<sup>+</sup>17, FSM<sup>+</sup>16, GCGR13, JKS<sup>+</sup>13, LFH<sup>+</sup>11, MPBM<sup>+</sup>16, PSK<sup>+</sup>13, RB15, SPCR<sup>+</sup>19, TCFÁS19, VLVS<sup>+</sup>16, YLX<sup>+</sup>19a, ZWG<sup>+</sup>18, ZCJ<sup>+</sup>18, BMBS12, GCNB18]. **baseline** [GBV<sup>+</sup>16].

**Basilewsky** [TIK<sup>+</sup>14a, TIK<sup>+</sup>14b, TQW<sup>+</sup>14]. **Basin** [DAO19, SBW<sup>+</sup>18, FDL<sup>+</sup>17, MKKM15]. **Bass** [CGAS19, BCBS<sup>+</sup>13, BVG<sup>+</sup>10, CKTT10, DBS12, FPK<sup>+</sup>17, JFWH19, LMC<sup>+</sup>16, NOST<sup>+</sup>16, PBC15, PST<sup>+</sup>16, PBBG19, RGD<sup>+</sup>12, SBW<sup>+</sup>18, SBM<sup>+</sup>11, SDJH16, TMC<sup>+</sup>12, TNK12, VTM<sup>+</sup>14, ZLX<sup>+</sup>19]. **batfish** [LZGZ16]. **bath** [BCT<sup>+</sup>17, FHD13, GVB<sup>+</sup>17b, GVB<sup>+</sup>17a, RHS<sup>+</sup>12, SCR<sup>+</sup>15, SOA<sup>+</sup>18, TNK12]. **bath-challenged** [SOA<sup>+</sup>18]. **batrachus** [BNC<sup>+</sup>11].

**Baumann** [SNM<sup>+</sup>16]. **Bay** [PBBG19, NRF<sup>+</sup>18, SKB10]. **Bayesian** [LMG<sup>+</sup>19]. **be** [DZV10, MBB12, PMH<sup>+</sup>11]. **bean** [MTLP<sup>+</sup>18b, CHF<sup>+</sup>12, GM11]. **behaviour** [AHAMR<sup>+</sup>19, BDD<sup>+</sup>18, DLLB<sup>+</sup>18, FHZ<sup>+</sup>16, HGH<sup>+</sup>18, OWM<sup>+</sup>17, SSK17].

**Behavioural** [FSB18a]. **being** [PSZ<sup>+</sup>14]. **Belar** [DT16]. **bellied** [EDSL11, LYD<sup>+</sup>15]. **Bench** [EAM<sup>+</sup>13]. **Bench-top** [EAM<sup>+</sup>13]. **benefits** [GCGR13]. **Bengal** [PRWG17]. **benign** [VPCM19]. **Bennett** [WA14].

**benzisoxazole** [SRD<sup>+</sup>16]. **benzoate** [GSS<sup>+</sup>10, HLHS11, IPW<sup>+</sup>13, JHGR13, KWGS19, LML12, PPI<sup>+</sup>13, SMR10, SMM<sup>+</sup>13, Sam10, WWE<sup>+</sup>13]. **bergylta** [BVK<sup>+</sup>16, BT14, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SRM<sup>+</sup>18]. **Bering** [WMF14]. **Bermuda** [BGC<sup>+</sup>17]. **best** [JMD<sup>+</sup>18, MMH<sup>+</sup>18]. **bester** [RHSM<sup>+</sup>18b]. **Beta** [SJSA<sup>+</sup>14, LSA<sup>+</sup>15, NYRS12]. **beta-2** [LSA<sup>+</sup>15]. **Beta-glucan** [SJSA<sup>+</sup>14].

**Betanodavirus** [KCD<sup>+</sup>14, LNC<sup>+</sup>17, MPJ<sup>+</sup>15, PST<sup>+</sup>16, SOA<sup>+</sup>18, TDS<sup>+</sup>19, Bin14, CGG<sup>+</sup>10, DTM<sup>+</sup>10, HGB<sup>+</sup>11, HLP<sup>+</sup>16, KTP<sup>+</sup>15, KKK<sup>+</sup>18, KKM<sup>+</sup>19, NOST<sup>+</sup>16, SODB16, SOGR<sup>+</sup>19, VTM<sup>+</sup>14, Wen16, WCL<sup>+</sup>12, FCM<sup>+</sup>19].

**Betanodavirus-associated** [KCD<sup>+</sup>14]. **betanodaviruses** [BBC<sup>+</sup>10, BCL<sup>+</sup>19, VGP<sup>+</sup>18]. **Betta** [RhAS<sup>+</sup>15]. **between** [BLFRCQ10, FNISE12, JWO<sup>+</sup>10, JLJ16, KHG<sup>+</sup>17, LMC<sup>+</sup>16, LZZN10, LLS<sup>+</sup>11, MSC<sup>+</sup>17, MMH10, OLT<sup>+</sup>10, SL15, VC17, WK12]. **bias** [CXK16, MLH<sup>+</sup>15]. **bidyana** [FHD13]. **Bidyanus** [FHD13]. **bigeye** [HHM<sup>+</sup>14]. **binding** [vGJHS<sup>+</sup>11, YHY<sup>+</sup>16, ZGY<sup>+</sup>18, WCL<sup>+</sup>19]. **bioassay** [HH13b, HBS<sup>+</sup>14]. **bioassays** [HH13a, MMH<sup>+</sup>18, SMM<sup>+</sup>13]. **Biochemical** [SSV<sup>+</sup>17, DPTCF10, TAC15]. **biochemistry** [BHA<sup>+</sup>17, LWMT10].

**Biocontrol** [GPGAG19, CHH<sup>+</sup>14]. **bioenergetics** [BSV<sup>+</sup>18]. **biofilm** [ASS19, CD17, DSSB18, DSSB19, LFD<sup>+</sup>17, LITCAH19b, SW11].

**biofilm-forming** [CD17]. **Biography** [HR15, PBW14]. **Biological** [LQL<sup>+</sup>10, MSS<sup>+</sup>17a, SDI<sup>+</sup>18]. **biologically** [RHB<sup>+</sup>15]. **Biology** [Spe19a, LYKN18]. **bioluminescence** [BKD17]. **biomarker** [BMT<sup>+</sup>15, FBK<sup>+</sup>16]. **biomarkers** [BMGS17]. **biomass** [MMG<sup>+</sup>11].

**biomolecular** [GMB<sup>+</sup>17]. **biophysical** [SCF<sup>+</sup>13]. **biopolymer** [BYAS<sup>+</sup>19].

**biopsy** [CMS<sup>+</sup>19, TMWV14]. **biosecurity** [NSC<sup>+</sup>15, TJR<sup>+</sup>18]. **biotype** [FLVA10, SON<sup>+</sup>18]. **biphasic** [MLWC11]. **bivalve** [ACYC10, VGP<sup>+</sup>18].

**Bivalvulida** [LJHG14, LRB<sup>+</sup>17]. **Bizerte** [YB17]. **BKD** [BSSH17]. **black**

[BCT<sup>+17</sup>, BPF<sup>+18</sup>, DCMM13, DBM<sup>+14</sup>, GPWF19, HKK<sup>+11a</sup>, LLDL13, PSK<sup>+13</sup>, PSK<sup>+12</sup>, SHW<sup>+11</sup>, SHS14, SRSF10, SHAM14, SMS<sup>+19</sup>, XWP<sup>+18</sup>, ZxYJ<sup>+19</sup>]. **blackeye** [HSGD11]. **blacktip** [PC17]. **bladder** [BMD<sup>+14</sup>, BCG<sup>+17</sup>, RKH18]. **Bleeker** [BRMG13, BCJ13, DCV<sup>+14</sup>, LYD<sup>+15</sup>, LLDL13, RTM<sup>+15</sup>, WZL<sup>+11</sup>]. **Bloch** [BFFA<sup>+12</sup>, BO15, CLWJ13, CBH<sup>+15</sup>, CCM<sup>+11</sup>, DDBC<sup>+15</sup>, GKCC<sup>+12</sup>, GHW<sup>+15</sup>, HSGD11, HHM<sup>+14</sup>, JHW17, LJHG14, LLL<sup>+13</sup>, TGJCH15, WXL16, YLW<sup>+14</sup>, ZWLG10]. **blochii** [AZSI<sup>+12</sup>, CWL<sup>+17</sup>, WKW13]. **Blood** [BSSB18, CMS<sup>+19</sup>, Lek12, AI11, DPTCF10, WXL16, YSV<sup>+13</sup>]. **blood-free** [YSV<sup>+13</sup>]. **blooded** [SAS<sup>+19</sup>]. **bloom** [KPM<sup>+11</sup>]. **blotched** [CDM<sup>+16</sup>]. **blotting** [LCR<sup>+10</sup>]. **blue** [BRL<sup>+13</sup>, FSM<sup>+16</sup>, HBH<sup>+19</sup>, KEY<sup>+15</sup>, RGMGG<sup>+18</sup>, XKBC12]. **bluefin** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **Bluegill** [LEM<sup>+19</sup>, BMA13, DWL<sup>+17</sup>, LDEH17, LFL19, LEM<sup>+19</sup>]. **Body** [PPK<sup>+13</sup>, LL11, LGS<sup>+14</sup>, SSL18]. **Bonamia** [BLSG<sup>+16</sup>, BWP<sup>+19b</sup>]. **bonasus** [BB11, VPCM19]. **bone** [ARL<sup>+17</sup>]. **Bonnaterre** [JK12]. **bonnethead** [CBC<sup>+13</sup>, MCWL13]. **Book** [Rob10]. **Boone** [CMEV17a, CMS<sup>+17</sup>, CMEV17b, CLW<sup>+13</sup>, HMV<sup>+17</sup>, HXZ<sup>+16</sup>, SSV<sup>+17</sup>, STG<sup>+10</sup>, SNM<sup>+16</sup>, TMM<sup>+15</sup>, TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **border** [NSC<sup>+15</sup>]. **botanically** [OWM<sup>+17</sup>]. **both** [CGW<sup>+19</sup>, CBM<sup>+18</sup>]. **Boulenger** [SHAM14]. **bovis** [LRC<sup>+18</sup>]. **Boxhall** [HBS<sup>+14</sup>]. **Boxshall** [GAVC16, MSMM19, MGM<sup>+18</sup>]. **Brachydanio** [Bin14]. **brachypomus** [FCS<sup>+18</sup>]. **brachyurus** [RBF14]. **brackish** [NOV<sup>+11</sup>]. **brain** [BSSB18, CLL<sup>+10</sup>, OKS<sup>+13</sup>, SON<sup>+18</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WKW13, Wen16, XJL<sup>+19</sup>, YCNW18]. **branchial** [BSD<sup>+18b</sup>]. **branchialis** [BSWS11]. **Branchinella** [SHW<sup>+11</sup>]. **Branchiomonas** [WNGS<sup>+17</sup>]. **Branchiomycosis** [PdSG<sup>+12</sup>]. **branchiophilum** [GDW<sup>+15</sup>]. **Brandt** [RFA<sup>+14</sup>]. **Bravo** [GAVC16, HBS<sup>+14</sup>, MSMM19, MGM<sup>+18</sup>]. **Brazil** [CMSHS16, CdAPdC<sup>+19</sup>, FCS<sup>+18</sup>, MdOO16]. **Brazilian** [ARL<sup>+17</sup>, CLS<sup>+15</sup>, FLC<sup>+17</sup>, MDC<sup>+18</sup>, PdSG<sup>+12</sup>, SPKS17]. **breakdown** [BSSB18]. **bream** [ACSB<sup>+19</sup>, BC11, DJQ<sup>+12</sup>, DdRTM13, DPCdR14, Dig13, Dig15, JKH<sup>+17</sup>, JJV<sup>+15</sup>, JLJ16, KPT<sup>+11</sup>, KHC<sup>+18</sup>, KLW10, LGS<sup>+14</sup>, MSS<sup>+17b</sup>, Pol15, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>]. **bred** [ADR11, XLZ<sup>+17</sup>]. **Breeding** [VST<sup>+19</sup>, SSO<sup>+14</sup>]. **brevifilum** [SFBW<sup>+17</sup>]. **brevirostris** [JMHK18]. **brevirostrum** [LGK<sup>+14</sup>]. **brill** [LPVGL<sup>+10</sup>]. **British** [BPPKJ10, BHT<sup>+17</sup>, MMB<sup>+15</sup>, SMR10, SMM<sup>+13</sup>, TVK<sup>+19</sup>]. **broadly** [KWD<sup>+16</sup>]. **Bromodeoxyuridine** [EPCSBP18]. **bronze** [RBF14]. **brood** [ZZQ<sup>+19</sup>]. **broodfish** [WNSAL12]. **broodstock** [LMG<sup>+19</sup>, LPCC12, MMH10, RDN<sup>+12</sup>, SBP<sup>+19</sup>]. **brook** [DGS<sup>+14</sup>]. **Broth** [YVM<sup>+14</sup>, GCW17]. **brown** [AGFG19, BSPS<sup>+18</sup>, KHG<sup>+17</sup>, KFK<sup>+16</sup>, LSC<sup>+14</sup>, LSA<sup>+15</sup>, OSC<sup>+14</sup>, PGF<sup>+19</sup>, PHR14, SVV<sup>+17</sup>, Wen16, YB17]. **brown-marbled** [LSC<sup>+14</sup>, LSA<sup>+15</sup>, Wen16]. **Brunswick** [BSSH17, EWRH13, GVB<sup>+17b</sup>]. **bryosalmonae** [BSPS<sup>+18</sup>, BPPKJ10, JZK<sup>+14</sup>, KAESEM13, LUP<sup>+18</sup>, MJ17, Mor12].

**bubble** [RPJ<sup>+</sup>18]. **Buchanan** [Bin14, CXK16]. **Buenos** [Lek12]. **bulbus** [DKG<sup>+</sup>17, YP17]. **Bulgaria** [OSC<sup>+</sup>14]. **bullhead** [BPF<sup>+</sup>18, PHR14]. **burbot** [PFJ<sup>+</sup>10]. **Burchell** [DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14]. **burdens** [GVB<sup>+</sup>17b]. **Burm.f** [HDC18]. **burst** [CHAB10, UKS<sup>+</sup>18]. **butterfly** [BCJ13]. **buttnerae** [OMB<sup>+</sup>19]. **bv** [ZWL<sup>+</sup>16]. **by-products** [LKS<sup>+</sup>13, MMNL14].

**C** [JCN<sup>+</sup>14, OTN<sup>+</sup>12, OKS<sup>+</sup>13, GMN12, HPAL10, Sam10, SG12]. **C.** [ZWLG10]. **C6** [GCNB16, APG<sup>+</sup>11, HO13]. **C6-6** [GCNB16]. **C6/** [APG<sup>+</sup>11, HO13]. **Ca** [AFTEML19, WNGS<sup>+</sup>17]. **Ca/P** [AFTEML19]. **cactaceae** [BAH<sup>+</sup>16]. **cage** [AZSI<sup>+</sup>12, GBV<sup>+</sup>16, LHW<sup>+</sup>15a, SPS<sup>+</sup>17, SZZSFN<sup>+</sup>14, TWYC15, XQS<sup>+</sup>15, ZxYJ<sup>+</sup>19]. **cage-cultured** [AZSI<sup>+</sup>12, SZZSFN<sup>+</sup>14, ZxYJ<sup>+</sup>19]. **cage-farmed** [SPS<sup>+</sup>17]. **cage-level** [GBV<sup>+</sup>16]. **cage-reared** [LHW<sup>+</sup>15a, XQS<sup>+</sup>15]. **cainii** [ABF15]. **calcarifer** [BO15, GKCC<sup>+</sup>12, JHW17, KNN19, SDM<sup>+</sup>19, TGJCH15]. **California** [CGAS19, GCCLRP<sup>+</sup>13, KHS11]. **californiensis** [VCLW16]. **Caligidae** [FSB18a, KJB11, NLC<sup>+</sup>16]. **Caligus** [BNS13, FVAVMGE18, GAVC16, GOM<sup>+</sup>19, HLHS11, HBS<sup>+</sup>14, MSMM19, MGM<sup>+</sup>18, STIG17, VMBGE17, YAHWU11]. **Callinectes** [FSM<sup>+</sup>16]. **campbellii** [NDA<sup>+</sup>19, WBF<sup>+</sup>10]. **Can** [BMK17, DZV10, LPA<sup>+</sup>10]. **Canada** [BSSH17, BPPKJ10, EWRH13, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, GL18, GVB<sup>+</sup>17b, KHLL16, LGK<sup>+</sup>14, LLLG18, LDA<sup>+</sup>19, MMB<sup>+</sup>15, MMD16, NRF<sup>+</sup>18, SMM<sup>+</sup>13, SCD19, SGQ<sup>+</sup>15, SQC<sup>+</sup>14, TVK<sup>+</sup>19]. **Canadian** [VC17]. **canadum** [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Cancer** [SWH<sup>+</sup>14]. **candidate** [LMC<sup>+</sup>16, SCK13]. **candidates** [ABF15, BLFC12, JKC<sup>+</sup>11]. **Candidatus** [DPTFC10, MSR<sup>+</sup>10, SPV<sup>+</sup>18]. **Cantor** [LL12]. **CAP18** [CMH<sup>+</sup>17]. **capensis** [MVWS13]. **Capillariidae** [MWRSK17]. **capillata** [PÅD18]. **Capsalidae** [HSHC<sup>+</sup>16, TGJCH15]. **capsid** [CGG<sup>+</sup>10, FMT<sup>+</sup>14, SCK13, SOGR<sup>+</sup>19]. **capsomers** [LRD<sup>+</sup>19]. **Capsular** [ZKL<sup>+</sup>19]. **capsulated** [CLT<sup>+</sup>14]. **captive** [ADR11, BDB<sup>+</sup>18, CHF<sup>+</sup>12, HSGD11, JK12, LYD<sup>+</sup>15, MCWL13, RTM<sup>+</sup>15, SBM<sup>+</sup>11]. **captive-bred** [ADR11]. **captive-raised** [SBM<sup>+</sup>11]. **captivity** [HFKF17, MS16, RBWR<sup>+</sup>15]. **capture** [WNLF<sup>+</sup>12]. **capturing** [OLVJ<sup>+</sup>13]. **carapo** [VMCM14]. **Carassius** [BBL<sup>+</sup>16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GAEK<sup>+</sup>14, KKOY19, KJW<sup>+</sup>17, LJHG14, LCR<sup>+</sup>10, LLL<sup>+</sup>13, NSS<sup>+</sup>17, RMAM12, WXL16, WIC<sup>+</sup>19, YNL11, YLW<sup>+</sup>14, ZWLG10]. **Carcharhinus** [PC17, RBF14]. **Carcharias** [LL11, HKF<sup>+</sup>16, RBF14]. **Carcharodon** [HKF<sup>+</sup>16, RBF14]. **carcinoma** [SHAM14, TIK<sup>+</sup>14b, VPCM19]. **cardiac** [GRT12, YLW<sup>+</sup>14]. **cardinal** [LLG<sup>+</sup>15, ŘKH17]. **Cardiomyopathy** [GFS<sup>+</sup>18, RMR14, SNK<sup>+</sup>19, WNLF<sup>+</sup>12]. **cardiorespiratory** [PG16]. **Caribbean** [PRWG17, SBK<sup>+</sup>13]. **Carp** [ABVS18, MBS<sup>+</sup>17, ARR<sup>+</sup>18, ATJS<sup>+</sup>18, AI11, BSK<sup>+</sup>10, BMK17, CLC<sup>+</sup>17, CR12, CCT<sup>+</sup>11, EBM<sup>+</sup>18, FBS13, FSV<sup>+</sup>14, GSEM13, GSBEM15, GFS<sup>+</sup>14,

GCWB11, JDRM17, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KKOY19, KJW<sup>+17</sup>, KPM<sup>+11</sup>, LWJ<sup>+16</sup>, LLL<sup>+12</sup>, LLZW14, LJHG14, LXHL11, LLL<sup>+13</sup>, MPBM<sup>+16</sup>, MSB<sup>+19</sup>, MSS<sup>+17a</sup>, MGN<sup>+16</sup>, MTA<sup>+15</sup>, MTAB15, OSAA18, OCLI<sup>+19</sup>, PTM<sup>+19</sup>, PFP<sup>+13</sup>, SGB<sup>+16</sup>, SBD11, SKN<sup>+16</sup>, SEM18, SRB12, SJS<sup>+14</sup>, TIK<sup>+14b</sup>, VCN<sup>+10</sup>, WXL16, WCR<sup>+18</sup>, XWP<sup>+18</sup>, YFA<sup>+17</sup>, YLW<sup>+14</sup>, YkSKY13, YYW<sup>+14</sup>, ZWG<sup>+18</sup>, ZWLG10, ZYW<sup>+10</sup>. **carpet**  
 [CIA<sup>+18</sup>, DABO<sup>+17</sup>]. **carpio** [AI11, BLFRCQ10, BDM<sup>+18</sup>, CLC<sup>+17</sup>, CR12, CCT<sup>+11</sup>, CLHGK17, FSV<sup>+14</sup>, GJM<sup>+15</sup>, GSEM13, HDC18, JDRM17, JAR<sup>+11</sup>, JSAH<sup>+18</sup>, KPM<sup>+11</sup>, LWJ<sup>+16</sup>, LLZW14, MBS<sup>+17</sup>, MSS<sup>+17a</sup>, MTA<sup>+15</sup>, MTAB15, OSAA18, OCLI<sup>+19</sup>, PFP<sup>+13</sup>, RHZA<sup>+16</sup>, SBD11, SRB12, SJS<sup>+14</sup>, VCN<sup>+10</sup>, WPH<sup>+13</sup>, WZW<sup>+18</sup>, YFA<sup>+17</sup>]. **Carrier**  
 [FLCC<sup>+14</sup>, PFJ<sup>+10</sup>, SBH<sup>+16</sup>]. **Cartilage** [YP17]. **Caryophyllidea** [SBD11]. **Case** [BSSH17, CLHGK17, LGK<sup>+14</sup>, AHJS<sup>+18</sup>, ALG15, ATP<sup>+16</sup>, ARFG13, BMK17, BO15, CIA<sup>+18</sup>, DBHC17, DML<sup>+16</sup>, FKB<sup>+14</sup>, JDRM17, JR19, LL12, MNF<sup>+15</sup>, OLVJ<sup>+13</sup>, OOO<sup>+11</sup>, TIK<sup>+14a</sup>]. **casein**  
 [PMH<sup>+11</sup>, SJDC<sup>+13</sup>]. **cases** [DSJA18]. **caspase** [LBF<sup>+14</sup>, RCGGM15]. **caspase-1** [RCGGM15]. **caspase-3-positive** [LBF<sup>+14</sup>]. **cataract**  
 [ALG15, SFR<sup>+17</sup>]. **cataracts** [JHRW17]. **Catarina** [CdAPdC<sup>+19</sup>]. **catchment** [DIH<sup>+16</sup>, HHC<sup>+18</sup>]. **catecholamine** [DSSB19]. **catfish**  
 [BNC<sup>+11</sup>, BSV<sup>+18</sup>, BSSB18, BSD<sup>+18b</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, BAD<sup>+12</sup>, BBF<sup>+15</sup>, BPF<sup>+18</sup>, CCMA<sup>+17</sup>, CTK<sup>+10</sup>, DD15, DAO19, EAN<sup>+18</sup>, HGPD11, HOHG13, KMGK<sup>+18</sup>, LTC<sup>+14</sup>, LLWL15, MP18, MAOS<sup>+18</sup>, OOO<sup>+11</sup>, OAO<sup>+12</sup>, PRWG17, PRSK10, PMK12, RKPG16, SMV<sup>+14</sup>, SLPB18, SZZSFN<sup>+14</sup>, SMFM12, SRT<sup>+14</sup>, TMWV14, VST<sup>+19</sup>, XKBC12, YSK13, YK13]. **Catostomus** [MGN<sup>+16</sup>]. **caudal** [ASW16, PWHW18b]. **caught**  
 [CNN<sup>+10</sup>, HFKF17, MIO<sup>+18</sup>, RBWR<sup>+15</sup>, RSM<sup>+18</sup>, SDZN19]. **causal**  
 [ACM<sup>+14</sup>, SSF<sup>+17</sup>]. **causative**  
 [CPP14, KEY<sup>+15</sup>, MFS<sup>+17</sup>, RGD<sup>+13</sup>, WEPB<sup>+18</sup>, ZWG<sup>+17</sup>]. **cause**  
 [HB12, LCZ<sup>+18</sup>]. **caused** [APP<sup>+17</sup>, AHTCA<sup>+17</sup>, CONN10, DDBC<sup>+15</sup>, DTJ<sup>+17</sup>, EEMCEGSP16, GVC<sup>+19</sup>, KAF<sup>+19</sup>, LLH<sup>+14a</sup>, MKY<sup>+15</sup>, MGM<sup>+16</sup>, MAOS<sup>+18</sup>, MCCN14, NBJ10, NDA10, PHVM13, ŘKH18, RSP<sup>+17</sup>, RRG<sup>+19</sup>, TSK<sup>+19</sup>, ZZA<sup>+14</sup>, dSdAdS<sup>+19</sup>]. **causes**  
 [LDÁM14, PZL<sup>+14</sup>, QZZ<sup>+18b</sup>, SSK17]. **causing**  
 [BMMC<sup>+15</sup>, BPF<sup>+18</sup>, DD18, KYB<sup>+15</sup>, LPC<sup>+18</sup>, PRY<sup>+18</sup>, QWTL17, SPP<sup>+18</sup>, TOK<sup>+16</sup>, WZQ<sup>+16</sup>, ZWL<sup>+16</sup>]. **caution** [KZJ<sup>+17</sup>]. **Cavernous**  
 [SMD<sup>+12</sup>]. **caviae** [BSV<sup>+18</sup>, BSB<sup>+18</sup>]. **CD3** [RBL<sup>+11</sup>]. **cefotaxime**  
 [GTGCM19]. **cel** [XXL<sup>+19</sup>]. **cel-EIIB** [XXL<sup>+19</sup>]. **Cell**  
 [DLP<sup>+13</sup>, AI11, AGB<sup>+19</sup>, APG<sup>+11</sup>, BNC<sup>+11</sup>, BAMYAH19, BKG<sup>+18</sup>, CHWM<sup>+19</sup>, CLL<sup>+10</sup>, CD17, CGCAH12, DMD<sup>+17</sup>, EYF<sup>+19</sup>, GHH<sup>+11</sup>, GM10, GSBEM15, GBSF12, GHW<sup>+15</sup>, HGW<sup>+19</sup>, HO13, HCW<sup>+16</sup>, IFF<sup>+15</sup>, JMF<sup>+18</sup>, JJS<sup>+12</sup>, KLW10, LJC<sup>+19</sup>, LSC<sup>+14</sup>, MVM<sup>+18</sup>, MB17, MTHB13, NMV<sup>+19</sup>, NSE<sup>+17</sup>, NYRS12, PWHW18b, PWW19, PMW<sup>+10</sup>, PPF<sup>+12</sup>, RPMRLJ<sup>+19</sup>, RBL<sup>+11</sup>, SVL<sup>+17</sup>, SHAM14, SSG<sup>+19</sup>, SDR<sup>+15</sup>, TQW<sup>+14</sup>, TDT<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>, WBF<sup>+10</sup>, WWS<sup>+11</sup>, WWZ<sup>+18</sup>, WZW<sup>+18</sup>, WCL<sup>+19</sup>,

WKW13, Wen16, WCW<sup>+</sup>16b, WBD<sup>+</sup>10b, XWP<sup>+</sup>18, YNL11, YCNW18]. **cell-free** [MB17]. **cell-infecting** [WCW<sup>+</sup>16b]. **cells** [AHPR<sup>+</sup>16, AJLC<sup>+</sup>16, BCLM<sup>+</sup>19, BGD<sup>+</sup>17, BDM<sup>+</sup>18, CCCTA<sup>+</sup>14, CXW<sup>+</sup>19, DPC<sup>+</sup>10, DPADO16, GIW<sup>+</sup>11, GCM<sup>+</sup>18b, IFF<sup>+</sup>15, LDÁM14, Lek12, LASRA<sup>+</sup>19, LBF<sup>+</sup>14, OMO<sup>+</sup>15, PMH<sup>+</sup>11, PSR<sup>+</sup>11, PPK<sup>+</sup>13, RSB13, RCGGM15, SHKF16, SJT14, WXL16, WBD<sup>+</sup>10b, XJL<sup>+</sup>19]. **cells-infecting** [OMO<sup>+</sup>15]. **Cellular** [ASA10, CRS<sup>+</sup>13, YHY<sup>+</sup>16]. **Celtic** [RBWR<sup>+</sup>15]. **central** [SMJ<sup>+</sup>14, GFB<sup>+</sup>13]. **centres** [PSZ<sup>+</sup>14]. **centrifugation** [DLCC<sup>+</sup>13, MTHB13]. **centroura** [CBFM16]. **Cephalotheca** [ŘKH16]. **cephalus** [MVWS13]. **Cerastoderma** [RAVC18]. **Ceratomyxa** [HB12]. **cerebralis** [FCJH19, MKKM15]. **cernuus** [MGM<sup>+</sup>16]. **Cestoda** [BB11, BCJ13, SBD11]. **cestode** [WFH<sup>+</sup>18]. **ceti** [CLS<sup>+</sup>15, GMC<sup>+</sup>16b, MHNY18]. **CEV** [MSB<sup>+</sup>19, RAM<sup>+</sup>18]. **cf** [MdOO16]. **chain** [BHT<sup>+</sup>17, LSA<sup>+</sup>15, NYRS12, TSS18, THW<sup>+</sup>12, YEK<sup>+</sup>17]. **chalcogramma** [WMF14]. **Challenge** [BVK<sup>+</sup>16, CCLGRM<sup>+</sup>17, CAJD<sup>+</sup>18, CRS<sup>+</sup>13, CTK<sup>+</sup>10, GMC<sup>+</sup>16b, GFM<sup>+</sup>11, GBSF12, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, KBTMH<sup>+</sup>16, MRN<sup>+</sup>19, MAC<sup>+</sup>15, MID<sup>+</sup>19b, MID<sup>+</sup>19a, NSE<sup>+</sup>17, PYSS19, SGB<sup>+</sup>16, SPCR<sup>+</sup>19, SSC17, TTL<sup>+</sup>16, ZWL<sup>+</sup>14]. **challenged** [LF16, NNCLGC<sup>+</sup>11, RCGGM15, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SOA<sup>+</sup>18, SCS<sup>+</sup>12, TSS18, ZJR<sup>+</sup>18]. **Change** [OKS<sup>+</sup>13, TTL<sup>+</sup>16]. **Changes** [CHWM<sup>+</sup>19, DCZ<sup>+</sup>17, GTGCM19, VCN<sup>+</sup>10, YK13, ACLP<sup>+</sup>19, BCBS<sup>+</sup>13, BHO<sup>+</sup>19, CSA<sup>+</sup>15, DTF<sup>+</sup>16, DPTCF10, DAO19, FvdMF<sup>+</sup>18, GFM<sup>+</sup>16, JKL<sup>+</sup>13, LDÁM14, LF16, MAOS<sup>+</sup>18, PAM<sup>+</sup>19, PCK<sup>+</sup>15, SSV<sup>+</sup>17, SOGR<sup>+</sup>19, TQW<sup>+</sup>14]. **changing** [JR19]. **Channa** [CLZ<sup>+</sup>12, DIH<sup>+</sup>16, LGC<sup>+</sup>19]. **channel** [BBF<sup>+</sup>15, LLWL15, MP18, PRSK10, PMK12, RKPG16, SZZSFN<sup>+</sup>14, SMFM12, YSK13, YK13]. **Chanodichthys** [TIK<sup>+</sup>14b]. **chaperone** [MFHHG18]. **chaperones** [RAS<sup>+</sup>10]. **Chapin** [STF<sup>+</sup>15]. **char** [SWM<sup>+</sup>15]. **Characidae** [Lek12]. **characteristics** [CD17, HKK<sup>+</sup>11b, LQL<sup>+</sup>10, MB17, OLVJ<sup>+</sup>13, TWYC15, WZA10]. **Characterization** [ACM<sup>+</sup>14, CMSHS16, CD17, CCME16, CLS<sup>+</sup>15, EDP<sup>+</sup>17, GLW<sup>+</sup>18, HBVB16, KYB<sup>+</sup>15, LLL<sup>+</sup>18a, PFJ<sup>+</sup>10, PRY<sup>+</sup>18, RB15, VKK<sup>+</sup>19, Wen16, WNLF<sup>+</sup>12, YCNW18, BNC<sup>+</sup>11, BPF<sup>+</sup>18, BCL<sup>+</sup>19, BCM<sup>+</sup>17, BDM<sup>+</sup>18, CLZ<sup>+</sup>12, CCLL16, CLL<sup>+</sup>10, DTF<sup>+</sup>16, DLCF13, DPADO16, DLPR15, DKBS17, DMK<sup>+</sup>19, ERÁpSB14, FDL<sup>+</sup>17, FMA<sup>+</sup>19, GJM<sup>+</sup>15, GBO<sup>+</sup>18, GH<sup>+</sup>11, GFS<sup>+</sup>14, GGGM14, HJT<sup>+</sup>16, HY16, HLC<sup>+</sup>15, HHX<sup>+</sup>15, HCW<sup>+</sup>16, IGLG<sup>+</sup>17, KTP<sup>+</sup>15, KLW10, LJC<sup>+</sup>19, LCC<sup>+</sup>15, LRB<sup>+</sup>17, MFHHG18, NYRS12, NSC<sup>+</sup>15, OLVJ<sup>+</sup>13, OFA11, OGI<sup>+</sup>18, PW<sup>+</sup>18b, PKPG15, PSBG<sup>+</sup>11, PAZ18, PLC<sup>+</sup>19b, RGMGG<sup>+</sup>18, RVC18, SRSF10, SDWA18, SDZN19, SPS<sup>+</sup>17, SMV<sup>+</sup>14, SMS<sup>+</sup>19, SSO<sup>+</sup>14, SMC<sup>+</sup>11, TPD<sup>+</sup>19, VMBGIC19, VGP<sup>+</sup>18, WWS<sup>+</sup>11, WWZ<sup>+</sup>18, WZW<sup>+</sup>18, WCL<sup>+</sup>19, YNL11, YK12, YM<sup>+</sup>11, YLS<sup>+</sup>19, ZQB<sup>+</sup>11, ZB12, ZWG<sup>+</sup>17]. **characterize** [BWM<sup>+</sup>13, TAC15]. **characterized** [GTT<sup>+</sup>17]. **charr** [SVL<sup>+</sup>17, WKK12]. **Chasmistes** [JMHK18]. **che** [FMA<sup>+</sup>19]. **chelonaes** [CBW19]. **Chemical** [OBD10, SHS14]. **chemicals** [TFG19]. **Chemotactic** [YSK13].

**chemotherapeutants** [MMH<sup>+</sup>18]. **Chen** [SS17]. **Cherax** [ABF15]. **Chesapeake** [SKB10]. **Chile** [AAUHW15, BNS13, CRAG<sup>+</sup>12, GGH<sup>+</sup>10, HBS<sup>+</sup>14, MSMM19, PBMB11, VDMJ<sup>+</sup>13, YAHWU11]. **Chilean** [AHTCA<sup>+</sup>17, CIL<sup>+</sup>17, CCCTA<sup>+</sup>14, FCL<sup>+</sup>19, HBB<sup>+</sup>15, HKB<sup>+</sup>16, IGLG<sup>+</sup>17, ISCF<sup>+</sup>19, LCV<sup>+</sup>17]. **Chilean-farmed** [AHTCA<sup>+</sup>17]. **chilensis** [IGLG<sup>+</sup>17]. **Chilodonella** [GJMH17]. **chilodonelliasis** [BO15]. **Chilodonellidae** [GJMH17]. **Chiloscyllium** [CIA<sup>+</sup>18]. **Chimaera** [DRdS<sup>+</sup>10]. **chimeric** [EBM<sup>+</sup>18]. **China** [LZGZ16, LHW<sup>+</sup>15a, LXL<sup>+</sup>18, CWW<sup>+</sup>18, HHX<sup>+</sup>15, LYL<sup>+</sup>18, LQY11, LL12, LLH<sup>+</sup>14b, LJHG14, LXX<sup>+</sup>17, WZL<sup>+</sup>11, XLZ<sup>+</sup>17, YLSW14, ZYW<sup>+</sup>10, ZSF16, ZLX<sup>+</sup>19, ZCC18, ZDWH18]. **chinensis** [WLX<sup>+</sup>10]. **Chinese** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, SCS<sup>+</sup>12, WLX<sup>+</sup>10, YMH<sup>+</sup>11, ZB12]. **Chinook** [BHT<sup>+</sup>17, BMH<sup>+</sup>19, DWP<sup>+</sup>19, DPD<sup>+</sup>18, GMC<sup>+</sup>16a, GBO<sup>+</sup>18, GTH11, LST<sup>+</sup>12, LF16, LF18, LWMT10, MPS<sup>+</sup>18, PMPG<sup>+</sup>16, STF<sup>+</sup>15]. **chitosan** [BYAS<sup>+</sup>19, LLDL13, RSGB<sup>+</sup>14]. **Chlamydiales** [SPV<sup>+</sup>18]. **chloramine** [BA14]. **chloramine-T** [BA14]. **chloride** [CHWM<sup>+</sup>19, MMD<sup>+</sup>12, MGF17, RHS<sup>+</sup>12]. **chloride-induced** [MGF17]. **chlorine** [DD18, MWRSK17]. **chloropiperidin** [SRD<sup>+</sup>16]. **Cholangioma** [vD14]. **cholerae** [ZZC<sup>+</sup>17]. **cholinergic** [BSD<sup>+</sup>18b]. **chondracanthid** [ABC<sup>+</sup>10]. **Chondracanthus** [ABC<sup>+</sup>10]. **Chondrichthyes** [DRdS<sup>+</sup>10]. **chorion** [SWS<sup>+</sup>16]. **chromatography** [KKT<sup>+</sup>18b, KKT<sup>+</sup>18a]. **chromogenes** [LHW<sup>+</sup>12]. **chromogenic** [CPEH15]. **Chronic** [KPT<sup>+</sup>11, LLH<sup>+</sup>14a, MKY<sup>+</sup>15, SJT14]. **Chryseobacterium** [IAR<sup>+</sup>10, PSVK<sup>+</sup>18]. **chrysops** [DBS12]. **chuatsi** [TIK<sup>+</sup>14a, TQW<sup>+</sup>14]. **chum** [DPADO16, KBE<sup>+</sup>14, MUM<sup>+</sup>19]. **cichlid** [LFSZ18, RHST<sup>+</sup>16, RhMM<sup>+</sup>15, RhMV<sup>+</sup>15]. **cichlids** [dASLS<sup>+</sup>19]. **ciliate** [AJLK<sup>+</sup>18, vGJKR<sup>+</sup>17, YYW<sup>+</sup>14]. **ciliates** [GJMH17]. **Ciliophora** [SPP<sup>+</sup>18]. **circle** [ABM<sup>+</sup>15]. **citrus** [LKS<sup>+</sup>13]. **CJ** [ZWL<sup>+</sup>14]. **clam** [ACYC10, DABO<sup>+</sup>17, FBVC16, MMD16, PDDC<sup>+</sup>14, RPJ<sup>+</sup>18]. **clams** [MMMD16]. **Clarias** [BNC<sup>+</sup>11, DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14]. **clarithromycin** [CDW17]. **clarkii** [AMAR18, DXX<sup>+</sup>15, JPG<sup>+</sup>19, MKKM15, WXWD15]. **class** [ATM<sup>+</sup>10, CPB<sup>+</sup>15, LMG<sup>+</sup>19, LLZW14, NB11, RBM<sup>+</sup>16]. **classes** [AH16]. **claudin** [SJS14]. **Clavochlamydia** [MSR<sup>+</sup>10]. **clay** [BBF<sup>+</sup>15]. **Cleaner** [Spe19a, Spe19b, BW18, GCCR13, GDN<sup>+</sup>16, WDM<sup>+</sup>15]. **cleansing** [Lek12]. **clearance** [CR12]. **Cleidodiscus** [BCT<sup>+</sup>17]. **Clinacanthus** [HDC18]. **Clinical** [BHW<sup>+</sup>11, CGP<sup>+</sup>19, HBB14, JJB15, RMR14, SHW<sup>+</sup>11, SMS<sup>+</sup>10, BSSH17, BHA<sup>+</sup>17, BSBH10, CPdPP16, CRAG<sup>+</sup>12, HWM<sup>+</sup>13, KTP<sup>+</sup>15, QXW14, RHZA<sup>+</sup>16, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b, TSS18]. **clinically** [SG12, TWNB<sup>+</sup>12]. **Clinostomum** [FŠK<sup>+</sup>19]. **clioquinol** [LPC<sup>+</sup>18]. **clipping** [ASSP<sup>+</sup>15]. **Clonal** [MFS<sup>+</sup>17, CHB<sup>+</sup>17, TALA11]. **clonality** [RDW18]. **clone** [BMMC<sup>+</sup>15]. **Cloning** [CLWJ13, JKH<sup>+</sup>17, NMIY14, HCW<sup>+</sup>16, NRMS14, NSE<sup>+</sup>17, SHKF16]. **close** [LDEH17]. **closure** [ASSP<sup>+</sup>15]. **clownfish** [BRMG13, SBK<sup>+</sup>15]. **clpV**

[LXZ<sup>+</sup>19]. **club** [PPF<sup>+</sup>12]. **Clupea**  
 [GJVT<sup>+</sup>11, GGW<sup>+</sup>11, HLL<sup>+</sup>12, HCEH16, MMBS10]. **clusters** [BKG<sup>+</sup>18].  
**Cnidaria** [MJ17, RKPG16]. **Cnideria** [PÅD18]. **Co** [ASHZ<sup>+</sup>12, ATP<sup>+</sup>16,  
 ARFG13, MBOC19, VDMJ<sup>+</sup>13, DYML<sup>+</sup>18, LGJ19, WNAJ<sup>+</sup>16].  
**Co-Infection** [ARFG13, ATP<sup>+</sup>16, MBOC19, VDMJ<sup>+</sup>13, LGJ19].  
**co-infections** [DYML<sup>+</sup>18, WNAJ<sup>+</sup>16]. **coast** [BMGS17, EEMCEGSP16,  
 FSM<sup>+</sup>16, GMP<sup>+</sup>11,JKO<sup>+</sup>13, LGK<sup>+</sup>14, MDC<sup>+</sup>18, RDN<sup>+</sup>12, SDJH16].  
**coastal** [CNN<sup>+</sup>10, HGH<sup>+</sup>16, RSF<sup>+</sup>17]. **coat** [ZLN<sup>+</sup>17]. **coated**  
 [MTK<sup>+</sup>10, SSHEM11]. **cobia**  
 [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Cobitis**  
 [FŠK<sup>+</sup>19]. **cocaine** [GFM<sup>+</sup>16]. **cocci** [BHA<sup>+</sup>11]. **coccidiosis**  
 [LFL19, dSdAdS<sup>+</sup>19]. **cockle** [DIVC16]. **cockle-based** [DIVC16]. **cockles**  
 [DIVC16, RAVC18]. **cocktail** [SPCR<sup>+</sup>19]. **cod** [BSWS11, BMGS17, BK12,  
 FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18,  
 MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, SJT14, ZCP12]. **Codon**  
 [SCK13, MLH<sup>+</sup>15]. **Codon-optimized** [SCK13]. **coexistence** [LVADB17].  
**coggygria** [BE19]. **cognate** [ZWY<sup>+</sup>11]. **cohabitant** [MID<sup>+</sup>19a].  
**cohabitation** [BWS<sup>+</sup>18, GFM<sup>+</sup>11, MID<sup>+</sup>19b]. **cohabited** [Tre12]. **Coho**  
 [AHTCA<sup>+</sup>17, VMBGE17]. **coinfection** [ATP<sup>+</sup>17, MP18]. **coinfections**  
 [PTM<sup>+</sup>19]. **coioides** [FHZ<sup>+</sup>16, NNC<sup>+</sup>18, WCL<sup>+</sup>12]. **Cold**  
 [KSS17, CHV<sup>+</sup>12, SAS<sup>+</sup>19, VBL<sup>+</sup>16]. **cold-blooded** [SAS<sup>+</sup>19]. **Cold-water**  
 [KSS17]. **coldwater** [GCNB16, MBS<sup>+</sup>19a, RHB<sup>+</sup>15]. **coli** [SNM<sup>+</sup>16].  
**collected** [BOH<sup>+</sup>12, BA13, BMGS17, DBV<sup>+</sup>13, GOM<sup>+</sup>19, MJ17, PPSW19,  
 SMJ<sup>+</sup>14, WWE<sup>+</sup>13]. **collecting** [LST<sup>+</sup>12, MWRSK17]. **collection**  
 [ZCCN13]. **colloidal** [LXX<sup>+</sup>17]. **Colombia** [BMMC<sup>+</sup>15]. **colonization**  
 [BK12, SFL<sup>+</sup>16]. **colonized** [RHBMM13]. **colonizing** [LF18, SWWN<sup>+</sup>16].  
**Colorimetric** [ASS19]. **Colossoma**  
 [ANB<sup>+</sup>19, FCS<sup>+</sup>18, OMB<sup>+</sup>19, PdSG<sup>+</sup>12, VDO<sup>+</sup>18b, VDO<sup>+</sup>18a]. **Columbia**  
 [BPPKJ10, MMB<sup>+</sup>15, SMM<sup>+</sup>13, TVK<sup>+</sup>19, BHT<sup>+</sup>17, SMR10]. **column**  
 [JHM<sup>+</sup>18, MLF<sup>+</sup>10]. **columnare**  
 [BBF<sup>+</sup>15, BLF<sup>+</sup>16, BMA13, DBS12, DBV<sup>+</sup>13, DLPR15, DSLR16, FDL<sup>+</sup>17,  
 GLW<sup>+</sup>18, GCW17, LWWS14, LGD<sup>+</sup>17, LGS19, LFD<sup>+</sup>17, LZZN10, LLL<sup>+</sup>12,  
 OFA11, SL15, SLPB18, TQW<sup>+</sup>14, WSA<sup>+</sup>18]. **columnaris** [MA16]. **columns**  
 [OM10]. **combination** [QZZ<sup>+</sup>18b]. **combinations** [HCL<sup>+</sup>14].  
**Combinatorial** [PPI<sup>+</sup>13]. **Combined**  
 [MDF<sup>+</sup>17, AGB<sup>+</sup>19, TCFÁS19, WSX<sup>+</sup>18]. **comes** [BSW17]. **Comment**  
 [KRFT14, JCN<sup>+</sup>14]. **Comments** [Pol15, FYO<sup>+</sup>11, MWS17, Dig15].  
**commercial** [ABF15, CdAPdC<sup>+</sup>19, MSBB<sup>+</sup>16, TFG19]. **commercially**  
 [LXX<sup>+</sup>17, WGL17]. **commersonii** [MGN<sup>+</sup>16]. **Common**  
 [SBH<sup>+</sup>16, ABVS18, BWS<sup>+</sup>18, CLC<sup>+</sup>17, CR12, GSEM13, JST<sup>+</sup>19, JAR<sup>+</sup>11,  
 LWJ<sup>+</sup>16, LLZW14, LJGRI<sup>+</sup>10, MBS<sup>+</sup>17, OSAA18, OCLI<sup>+</sup>19, PTM<sup>+</sup>19,  
 PFP<sup>+</sup>13, SGB<sup>+</sup>16, SGQ<sup>+</sup>15, SEM18, SSK17, SRB12, SJS14, THW<sup>+</sup>12,  
 VCN<sup>+</sup>10, VDD<sup>+</sup>18, YFA<sup>+</sup>17]. **community** [JSAB<sup>+</sup>19]. **companion**  
 [RBR19]. **Comparative** [BBP18, BFC<sup>+</sup>15, FDST16, GPL<sup>+</sup>12, IBFL19,

LWZ<sup>+18</sup>, MID<sup>+19b</sup>, MNG<sup>+18</sup>, OEG<sup>+13</sup>, RCD<sup>+17</sup>, RSIP<sup>+17</sup>, VTM<sup>+14</sup>, WZA10, XJL<sup>+19</sup>, XKB12, YEK<sup>+17</sup>, ABT<sup>+14</sup>, BSPS<sup>+18</sup>, DPTFC10, FLVA10, GFM<sup>+11</sup>, MID<sup>+19a</sup>, SOA<sup>+18</sup>, SMS<sup>+18</sup>, KPT<sup>+11</sup>]. **comparing** [CMH<sup>+17</sup>, EWRH13]. **Comparison** [GRG<sup>+16</sup>, HOHG13, RSPA<sup>+18</sup>, TAC15, BLF<sup>+16</sup>, DZC<sup>+16</sup>, EAM<sup>+13</sup>, LLLG18]. **Competition** [YHY<sup>+16</sup>]. **complanatum** [FŠK<sup>+19</sup>]. **Complementary** [TQW<sup>+14</sup>]. **Complete** [CGG<sup>+10</sup>, KKM<sup>+19</sup>, YMH<sup>+11</sup>, ZxYJ<sup>+19</sup>]. **complex** [CPB<sup>+15</sup>, KDP<sup>+17</sup>, TALA11, PdLC19]. **Complex-related** [PdLC19]. **complexes** [LC17, LRD<sup>+19</sup>]. **component** [NDA10]. **components** [ASA10, BLF<sup>+16</sup>]. **composition** [IBFL19, JBO<sup>+15</sup>, KFK<sup>+16</sup>, LDÁM14, LWZ<sup>+18</sup>]. **compositions** [DTF<sup>+16</sup>]. **compounds** [AHH16, AH16, MoSMS18, PPI<sup>+13</sup>]. **Comprehensive** [HKB<sup>+16</sup>]. **compression** [LGS<sup>+14</sup>]. **computed** [LTC<sup>+14</sup>]. **computer** [CMEV17a, CMEV17b]. **computer-assisted** [CMEV17a, CMEV17b]. **concentration** [GFM<sup>+16</sup>, HH13a, MSC<sup>+17</sup>, OM10, YVM<sup>+14</sup>]. **concentrations** [FCJH19, GTGCM19, HHO14, HGH<sup>+18</sup>, RHB<sup>+15</sup>]. **Concurrence** [ACA<sup>+16</sup>]. **concurrent** [LGK<sup>+14</sup>]. **condition** [PBM<sup>+15</sup>, SSJ<sup>+19</sup>, SSL18]. **conditions** [CDG<sup>+14</sup>, HBS<sup>+14</sup>, HKG<sup>+15</sup>, KCL14, MGM<sup>+18</sup>, TAQ<sup>+10</sup>]. **conducting** [WWE<sup>+13</sup>]. **confinement** [PBC15]. **confirm** [KF10a]. **confirmation** [CHB<sup>+17</sup>, GPWF19]. **confirmed** [JDRM17]. **confirms** [KDA<sup>+18</sup>]. **confocal** [BCM<sup>+17</sup>, CGCAH12]. **conger** [IGLG<sup>+17</sup>]. **Congo** [HHC<sup>+18</sup>]. **conjoined** [ADR11, BQP12, LTC<sup>+14</sup>]. **conjugated** [RSGB<sup>+14</sup>]. **connection** [MTG<sup>+10</sup>]. **consensus** [TAC15]. **consequence** [AFTEML19]. **consequences** [LGS<sup>+14</sup>]. **conserved** [YEK<sup>+17</sup>]. **consideration** [SSL18]. **Constance** [BGRB14]. **constant** [TQW<sup>+14</sup>]. **constitutes** [SPTDEE<sup>+15</sup>]. **Construction** [EAN<sup>+18</sup>, SWM<sup>+15</sup>, YK12, ZWL<sup>+14</sup>]. **contact** [SVY<sup>+14</sup>]. **containing** [SNM<sup>+16</sup>]. **contaminated** [BSD<sup>+18d</sup>, WBD<sup>+10b</sup>]. **content** [BCBS<sup>+13</sup>]. **continuous** [MVM<sup>+18</sup>, PWHW18b, SDR<sup>+15</sup>, VKK<sup>+19</sup>, YCNW18]. **Contracaecum** [DMB<sup>+16</sup>]. **contractile** [LTC16]. **contribute** [FBS13]. **contributes** [YZW<sup>+19</sup>]. **control** [ASA10, BNS13, DBS12, FLC<sup>+17</sup>, GVB<sup>+17b</sup>, HLHS11, JR19, MSS<sup>+17a</sup>, NFA15, SKGE13, TDJ<sup>+10</sup>, VGI<sup>+16</sup>]. **Controlled** [SPLV<sup>+15</sup>, KBTMH<sup>+16</sup>, MMBS10, NRMS14]. **controlling** [BAH<sup>+16</sup>, GCGR13, HGG<sup>+11</sup>, MSMM19, SMFM12]. **controls** [BMBS12]. **coordinated** [JR19]. **Copaifera** [VDO<sup>+18b</sup>]. **Cope** [JMHK18, LRB<sup>+17</sup>]. **copepod** [ABC<sup>+10</sup>, SAD<sup>+12</sup>]. **Copepoda** [FSB18a, BSWS11, KJB11, MAOS<sup>+18</sup>, PMBM13]. **copepodid** [BRL<sup>+13</sup>]. **copepodid-density** [BRL<sup>+13</sup>]. **copepodids** [BRL<sup>+13</sup>, DLLB<sup>+18</sup>, FSB18a]. **copper** [DBS12, FCJH19]. **core** [TMWV14]. **Coregonus** [SMS<sup>+18</sup>, WKW<sup>+11</sup>]. **corkwing** [SRM<sup>+18</sup>]. **Coronary** [DTF<sup>+16</sup>, BOH<sup>+12</sup>, DRdS<sup>+10</sup>]. **correction** [GM11]. **correlate** [PdLC19]. **correlated** [HZP<sup>+12</sup>]. **correlates** [Dal18, NN11]. **correlation** [FPK<sup>+17</sup>, JSJR<sup>+19</sup>, LLS<sup>+11</sup>, LWMT10, MSC<sup>+17</sup>]. **corresponds** [GGW<sup>+11</sup>].

**Corrigendum** [Ano12a, Ano12b, Ano17a, Ano17b]. **cosmetic** [VME<sup>+</sup>19]. **costae** [KCD<sup>+</sup>14]. **Cotinus** [BE19]. **count** [GBV<sup>+</sup>16, GVB<sup>+</sup>17a, Gis18]. **counts** [EWRH13]. **County** [MNM<sup>+</sup>19]. **coupled** [YGL<sup>+</sup>18]. **course** [RBM<sup>+</sup>16]. **Cover** [BWP<sup>+</sup>19a, ESV<sup>+</sup>19a, FSB18b, GGMG18a, GCM<sup>+</sup>18a, LITCAH19a, LLL<sup>+</sup>18b, MBS<sup>+</sup>19b, MTLP<sup>+</sup>18a, PWHW18a, PLC<sup>+</sup>19a, QZZ<sup>+</sup>18a, RHTC19a, RHVG<sup>+</sup>19a, VSDS<sup>+</sup>19b]. **cownose** [BB11, VPCM19]. **cowtail** [SDZN19]. **CpG** [PFC<sup>+</sup>13]. **Cpn60** [CG11]. **crab** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, FSM<sup>+</sup>16, LQY11, MRR<sup>+</sup>14, RNM<sup>+</sup>12, SCS<sup>+</sup>12, ZB12]. **crabs** [SWH<sup>+</sup>14]. **crappie** [GPWF19, SMS<sup>+</sup>19]. **crappies** [BCT<sup>+</sup>17]. **Crassostrea** [CBM<sup>+</sup>18, GVLE16, GCCLRP<sup>+</sup>13, HPY<sup>+</sup>13]. **crassus** [BMD<sup>+</sup>14, BND<sup>+</sup>17, FDST16, LML12, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b]. **Crayfish** [KPKP10, AMAR18, DXX<sup>+</sup>15, JPG<sup>+</sup>19, OSC<sup>+</sup>14, SMKB17, VDHV<sup>+</sup>16, VDH19]. **crimson** [CLWJ13]. **critical** [WBD10a]. **croaker** [HZJ<sup>+</sup>19, XQS<sup>+</sup>15, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **croakers** [MPM16]. **crocea** [HZJ<sup>+</sup>19, XQS<sup>+</sup>15, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **Cross** [AAUHW15, GRF14, JLJ16, MBS<sup>+</sup>19a]. **Cross-neutralization** [GRF14]. **cross-protection** [JLJ16, MBS<sup>+</sup>19a]. **Cross-sectional** [AAUHW15]. **crossback** [KVC<sup>+</sup>16]. **crossbreeds** [PFP<sup>+</sup>13]. **crowding** [Bin14]. **Crp** [VSS17]. **crucian** [BSK<sup>+</sup>10, KKOY19, KJW<sup>+</sup>17, WXL16]. **crumenophthalmus** [HHM<sup>+</sup>14]. **Crustacea** [BSWS11]. **crustaceans** [LXX<sup>+</sup>17]. **cryotherapy** [BCW<sup>+</sup>15]. **Cryptocaryon** [LMAKN16]. **cryptocaryonosis** [LMAKN16]. **CT** [BWM<sup>+</sup>13]. **Ctenochaetus** [WA14]. **Ctenolabrus** [BT14]. **Ctenopharyngodon** [GCWB11, LLL<sup>+</sup>12, YYW<sup>+</sup>14]. **Ctenopharyngodon** [LXHL11]. **cucumber** [LQL<sup>+</sup>10]. **cues** [FSB18a]. **cultivable** [STIG17]. **cultivated** [VFB<sup>+</sup>12]. **cultivation** [APG<sup>+</sup>11, KAESEM13, KSAB<sup>+</sup>14, Sla14]. **cultivation-independent** [Sla14]. **culture** [ABF15, AGB<sup>+</sup>19, AdOG<sup>+</sup>17, EAM<sup>+</sup>13, GM10, GBSF12, GDN<sup>+</sup>16, HO13, JJS<sup>+</sup>12, LLX<sup>+</sup>19, MB17, MLWC11, Mor12, ONA10, SMS<sup>+</sup>10, STS<sup>+</sup>15, YSV<sup>+</sup>13]. **culture-associated** [ONA10]. **cultured** [AOAH13, AAZS<sup>+</sup>15, AZSI<sup>+</sup>12, ACLP<sup>+</sup>19, BMMC<sup>+</sup>15, BAD<sup>+</sup>12, CVLJ<sup>+</sup>10, CVGR<sup>+</sup>13, CWW<sup>+</sup>18, CCT<sup>+</sup>11, CLW<sup>+</sup>13, CSA<sup>+</sup>15, CWL<sup>+</sup>17, CPP14, CCM<sup>+</sup>11, CCMA<sup>+</sup>17, DMP10, EKS<sup>+</sup>13, HHX<sup>+</sup>15, KPT<sup>+</sup>11, KPK<sup>+</sup>18, KLD<sup>+</sup>18, LGK<sup>+</sup>14, LFSZ18, LYL<sup>+</sup>18, LL12, LPVGL<sup>+</sup>10, LLL<sup>+</sup>13, MLRS<sup>+</sup>17, ME12, MKMY10, PAZ18, PLC<sup>+</sup>19b, QWTL17, RHSM<sup>+</sup>18b, SMD<sup>+</sup>12, SPKS17, SDJH16, SSJ<sup>+</sup>19, SZZSFN<sup>+</sup>14, SKPS16, TWYC15, WZL<sup>+</sup>11, WZQ<sup>+</sup>16, XJL<sup>+</sup>15, YYF<sup>+</sup>10, ZQB<sup>+</sup>11, ZxYJ<sup>+</sup>19, dALF<sup>+</sup>17]. **cultures** [CHB<sup>+</sup>17, PDdC<sup>+</sup>14]. **culturing** [KDP<sup>+</sup>17]. **cuneata** [LPVGL<sup>+</sup>10]. **curcumin** [MDF<sup>+</sup>17]. **Current** [GJMH17, LRMN17, MYWC18, WBD<sup>+</sup>10b, GFS<sup>+</sup>18, JJM<sup>+</sup>17, KSS17, TALA11, MMH<sup>+</sup>18, ZGY<sup>+</sup>18]. **curtus** [HLHS11]. **Cururu** [MdOO16]. **curve** [TCFáS19]. **cut** [SEK<sup>+</sup>16]. **cut-off** [SEK<sup>+</sup>16]. **Cutaneous** [LLG<sup>+</sup>15, MBD16, AGFG19, KHS11, LDÁM14, VPCM19]. **cutoff** [GCW17]. **cutthroat** [MKKM15]. **Cuvier** [BQP12, BHW<sup>+</sup>11, CHF<sup>+</sup>12, GOM<sup>+</sup>19, PdSG<sup>+</sup>12, SBK<sup>+</sup>15, ZWY<sup>+</sup>11].

**Cyanea** [PÅD18]. **cyanobacterial** [KPM<sup>+</sup>11]. **cyanuric** [PCK<sup>+</sup>15]. **cycle** [AJLK<sup>+</sup>18, LNC<sup>+</sup>17, RRC<sup>+</sup>17]. **cycles** [JR19]. **cyclic** [VSS17]. **cyclophilin** [YSK13]. **cyclopteri** [ATP<sup>+</sup>16, PB18]. **Cyclopterus** [ATP<sup>+</sup>16, AGR<sup>+</sup>16, CCH<sup>+</sup>19, ESBE18, EWH<sup>+</sup>19, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, GVC<sup>+</sup>19, JHRW17, MLRS<sup>+</sup>17, PAM<sup>+</sup>19, PB18, SBP<sup>+</sup>19, SFBW<sup>+</sup>17, TDS<sup>+</sup>19]. **CyHV** [BBL<sup>+</sup>16, AHJS<sup>+</sup>18, IFF<sup>+</sup>15, NSS<sup>+</sup>17, PFP<sup>+</sup>13, RAM<sup>+</sup>18]. **CyHV-2** [BBL<sup>+</sup>16, AHJS<sup>+</sup>18, NSS<sup>+</sup>17, RAM<sup>+</sup>18]. **CyHV-3** [IFF<sup>+</sup>15, PFP<sup>+</sup>13]. **Cynoglossus** [XJL<sup>+</sup>15, ZQB<sup>+</sup>11]. **Cynoscion** [CCM<sup>+</sup>11]. **cyprinacea** [RHS<sup>+</sup>12]. **cyprini** [GSBEM15, WBD<sup>+</sup>10b]. **Cyprinid** [LLL<sup>+</sup>13, MSS<sup>+</sup>17a, ASB<sup>+</sup>12, CLC<sup>+</sup>17, CCW<sup>+</sup>15, EBM<sup>+</sup>18, MLH<sup>+</sup>15, MKY<sup>+</sup>15, MBT<sup>+</sup>17, NSS<sup>+</sup>17, PFP<sup>+</sup>13, RAM<sup>+</sup>18, SEM18, WXL16, WSX<sup>+</sup>18, WIC<sup>+</sup>19, BBL<sup>+</sup>16, FBAS16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GSEM13, GAEK<sup>+</sup>14, HDC18, IFF<sup>+</sup>15, KJW<sup>+</sup>17, TKS<sup>+</sup>18]. **Cyprinus** [AI11, BLFRCQ10, BDM<sup>+</sup>18, CLC<sup>+</sup>17, CR12, CCT<sup>+</sup>11, CLHGK17, FSV<sup>+</sup>14, GJM<sup>+</sup>15, GSEM13, HDC18, JDRM17, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, KPM<sup>+</sup>11, LWJ<sup>+</sup>16, LLZW14, MBS<sup>+</sup>17, MSS<sup>+</sup>17a, MTA<sup>+</sup>15, MTAB15, OSAA18, OCLI<sup>+</sup>19, PFP<sup>+</sup>13, RHZA<sup>+</sup>16, SBD11, SRB12, SJSA<sup>+</sup>14, VCN<sup>+</sup>10, WPH<sup>+</sup>13, WZW<sup>+</sup>18, YFA<sup>+</sup>17]. **Cyrtilia** [MdOO16]. **cyst** [SdMVS<sup>+</sup>16]. **Cystic** [RhMM<sup>+</sup>15, WBE<sup>+</sup>17]. **cysticola** [WNGS<sup>+</sup>17]. **Cystidicolidae** [SBK<sup>+</sup>13]. **cytokine** [AMA11]. **cytokines** [NSE<sup>+</sup>17]. **cytologic** [RSR<sup>+</sup>18]. **cytometry** [CHB<sup>+</sup>17]. **cytotoxicity** [JSJR<sup>+</sup>19]. **Czech** [PFP<sup>+</sup>13].

**D** [ASHZ<sup>+</sup>12, JCN<sup>+</sup>14, KBE<sup>+</sup>14]. **dab** [SBH<sup>+</sup>16, VDD<sup>+</sup>18, YYW<sup>+</sup>14]. **damage** [MBB12]. **damselae** [BBP18, CDF<sup>+</sup>18, CRS<sup>+</sup>13, HCL<sup>+</sup>14, KPSP<sup>+</sup>19, OJRL10, SPS<sup>+</sup>17, BBP18, HHM<sup>+</sup>14, SPS<sup>+</sup>17]. **Danio** [AMRHM18, CXK16, CKvGJB17, EDP<sup>+</sup>17, KWGS19, LHW<sup>+</sup>12, LHW<sup>+</sup>15b, MLR<sup>+</sup>12, MWRSK17, RAM<sup>+</sup>19, SZM<sup>+</sup>15, SSK17, ZJR<sup>+</sup>18]. **Dasyatis** [CBFM16]. **data** [Gis18, HBS<sup>+</sup>14, MPJ<sup>+</sup>15, SMM<sup>+</sup>13, SK15, SEK<sup>+</sup>16]. **database** [EKT<sup>+</sup>11, JSK<sup>+</sup>10]. **dead** [CBM<sup>+</sup>18]. **deaminase** [BSD<sup>+</sup>18a]. **Decapterus** [BHW<sup>+</sup>11]. **decipiens** [BK12]. **decreased** [MCO11]. **decreases** [CCHL13, USM17]. **decussatus** [DABO<sup>+</sup>17]. **defence** [DLP<sup>+</sup>13, RRO<sup>+</sup>13]. **deficiency** [WPH<sup>+</sup>13]. **deficient** [HCCM12]. **definition** [BSSH17, MNF<sup>+</sup>15]. **definitions** [OLVJ<sup>+</sup>13]. **deformation** [TPD<sup>+</sup>19]. **deformations** [ASW16]. **deformities** [CLHGK17, Dig13, Dig15, FHFF15, GHB<sup>+</sup>11, MLF<sup>+</sup>10, Pol15, SMS<sup>+</sup>18]. **deformity** [GCWB11, JHM<sup>+</sup>18, NWMK16]. **degenerated** [VCOD17]. **degenerative** [ARL<sup>+</sup>17]. **Delftia** [ARFG13]. **delica** [TFG19]. **delivered** [PBM<sup>+</sup>15]. **delivery** [LLDL13]. **delousing** [HH13a, JR19]. **Delta** [BAD<sup>+</sup>12]. **Deltamethrin** [HBS<sup>+</sup>14]. **Deltistes** [JMHK18]. **demonstrate** [WKW<sup>+</sup>11]. **demonstrates** [GCM<sup>+</sup>18b, LLS<sup>+</sup>11, PPE<sup>+</sup>18]. **demonstrating** [JKS<sup>+</sup>13]. **demonstration** [CBLN13]. **Dendronereis** [HVVV15]. **denitrification** [JSAB<sup>+</sup>19]. **density** [BRL<sup>+</sup>13, DLC<sup>+</sup>13]. **densovirus** [OLC11]. **deoxynivalenol** [RHB<sup>+</sup>15]. **dependency** [JHW17]. **dependent** [ASSP<sup>+</sup>15, CGG<sup>+</sup>10, HZJ<sup>+</sup>19, HLP<sup>+</sup>16]. **depletion**

[DdRTM13, DdRCP13, DPCdR14]. **deposition** [CHF<sup>+12</sup>]. **depositions** [LAN<sup>+14</sup>]. **deprivation** [LDÁM14]. **derivative** [PVIM18]. **derived** [GHH<sup>+11</sup>, KLW10, LJC<sup>+19</sup>, OWM<sup>+17</sup>, PMW<sup>+10</sup>, SSG<sup>+19</sup>, WWS<sup>+11</sup>, YSHG18, YNL11, YCNW18]. **dermal** [RKPG16]. **dermatitis** [PRT<sup>+14</sup>, RBS<sup>+16</sup>]. **dermatopathy** [KPT<sup>+11</sup>, SJT14]. **Dermocystidium** [FCS<sup>+18</sup>, KHLL16, LLG<sup>+15</sup>]. **Dermocystidium-like** [KHLL16]. **description** [BLdA<sup>+18</sup>, BVT<sup>+18</sup>, CTD<sup>+12</sup>, GKCC<sup>+12</sup>, GGH<sup>+10</sup>, MdOO16, SZM<sup>+15</sup>, dSRSHGá<sup>+19</sup>]. **descriptive** [WMM<sup>+16</sup>]. **Design** [LTG<sup>+18</sup>, VCOD17]. **Desmarest** [MPM16]. **Desmozoon** [MRSC13]. **destructive** [BMT<sup>+15</sup>, CMS<sup>+19</sup>, LJGRI<sup>+10</sup>]. **detect** [CDG<sup>+14</sup>, THW<sup>+12</sup>]. **detected** [CCW<sup>+15</sup>, SRM<sup>+18</sup>]. **detecting** [AHITC18, BRB<sup>+12</sup>, HWM<sup>+13</sup>, WCW16a]. **Detection** [ACSB<sup>+19</sup>, BKS<sup>+17</sup>, BLSG<sup>+16</sup>, BPF<sup>+18</sup>, CPEH15, FCC<sup>+19</sup>, FCC<sup>+13</sup>, FGR<sup>+12</sup>, GFB<sup>+13</sup>, GBSF12, GCCLRP<sup>+13</sup>, JKC<sup>+11</sup>, JYZ<sup>+14</sup>, JHGR13, KTN<sup>+16</sup>, KJW<sup>+17</sup>, LGC<sup>+19</sup>, LJGRI<sup>+10</sup>, MCW<sup>+18</sup>, NJK<sup>+17</sup>, NFF<sup>+17</sup>, NSC<sup>+15</sup>, OMO<sup>+15</sup>, PBW<sup>+18</sup>, SZZSFN<sup>+14</sup>, SSO<sup>+14</sup>, VGP<sup>+18</sup>, WXL16, ARR<sup>+18</sup>, AGB<sup>+19</sup>, BBC<sup>+10</sup>, BBL<sup>+16</sup>, CLC<sup>+17</sup>, CDF<sup>+18</sup>, CWW<sup>+18</sup>, CRAG<sup>+12</sup>, CZL<sup>+19</sup>, DPMK12, DTM<sup>+10</sup>, DCL<sup>+17</sup>, FSC<sup>+16</sup>, FSG<sup>+12</sup>, GMB<sup>+17</sup>, GJK<sup>+11</sup>, GM10, HJOK11, HGB<sup>+11</sup>, JNN<sup>+11</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, KMGK<sup>+18</sup>, LFH<sup>+11</sup>, LLWL15, LXX<sup>+17</sup>, LCR<sup>+10</sup>, MSI<sup>+15</sup>, MTHB13, MTAB15, MNM<sup>+19</sup>, NLKA16, NMM<sup>+18</sup>, NOST<sup>+16</sup>, OCLI<sup>+19</sup>, PHvdH12, PSK<sup>+13</sup>, RHZA<sup>+16</sup>, RPJ<sup>+18</sup>, SMF<sup>+10</sup>, SSHEM11, SPKS17, SKN<sup>+16</sup>, Sla14, SEM18, TSS18, TSK<sup>+19</sup>, WWZ<sup>+18</sup>, WSX<sup>+18</sup>, XJL<sup>+15</sup>, YTL10, YWW<sup>+19</sup>, YLX<sup>+19a</sup>, ZCCN13, ZCC<sup>+15</sup>, ZWG<sup>+18</sup>, ZHFC11, ZLN<sup>+17</sup>, vBVLR<sup>+16</sup>]. **detections** [HST<sup>+13</sup>, TVK<sup>+19</sup>]. **detects** [ISCF<sup>+19</sup>]. **determinants** [NB11]. **Determination** [OM10, DSJA18, RHTC19b]. **determinations** [YVM<sup>+14</sup>]. **determined** [BHT<sup>+17</sup>]. **developed** [NMV<sup>+19</sup>]. **Developing** [WCW16a]. **Development** [Ano12c, BRB<sup>+12</sup>, BMBS12, CDF<sup>+18</sup>, CCCTA<sup>+14</sup>, CLT<sup>+14</sup>, ÇOÇ<sup>+16</sup>, CPdPP16, DPMK12, DCL<sup>+17</sup>, EKT<sup>+11</sup>, FSG<sup>+12</sup>, GJK<sup>+11</sup>, HRL15, HLC<sup>+15</sup>, JKS<sup>+13</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, LML<sup>+13</sup>, LLWL15, LXX<sup>+17</sup>, LLX<sup>+19</sup>, MVM<sup>+18</sup>, MSI<sup>+15</sup>, MID<sup>+19a</sup>, MF12, NLKA16, OFA11, PWPHW18b, PSK<sup>+13</sup>, RSGB<sup>+14</sup>, SCF<sup>+13</sup>, SVL<sup>+17</sup>, SKN<sup>+16</sup>, SFL<sup>+16</sup>, TSS18, THW<sup>+12</sup>, VBL<sup>+15</sup>, YWW<sup>+19</sup>, YLX<sup>+19a</sup>, ZCC<sup>+15</sup>, ZWG<sup>+18</sup>, vBVLR<sup>+16</sup>, BPCS19, BSK<sup>+10</sup>, CRBLC<sup>+17</sup>, CLS<sup>+15</sup>, DMK<sup>+19</sup>, EDN18, FLC<sup>+17</sup>, HH13b, HFKF17, JWO<sup>+10</sup>, JJV<sup>+15</sup>, KBE<sup>+14</sup>, LCOZ10, NMM<sup>+18</sup>, OLVJ<sup>+13</sup>, PWW19, SVV<sup>+17</sup>, SNK<sup>+19</sup>, dALF<sup>+17</sup>]. **DHA** [BCBS<sup>+13</sup>]. **dhakensis** [CMSHS16]. **diagnose** [NMIY14]. **diagnosing** [KKT<sup>+18a</sup>]. **diagnosis** [ATM<sup>+10</sup>, FBL<sup>+14</sup>, FMB<sup>+11</sup>, KKT<sup>+18b</sup>, VCOD17, WXL16, YYF<sup>+10</sup>]. **Diagnostic** [JSJR<sup>+19</sup>, BTC<sup>+17</sup>, CPdPP16, EAM<sup>+13</sup>, FMT<sup>+14</sup>, HH13b, HAS<sup>+19</sup>, JWO<sup>+10</sup>, JSJR<sup>+18</sup>, LTG<sup>+18</sup>, LMG<sup>+19</sup>, LPCC12, MNG<sup>+18</sup>, NJK<sup>+17</sup>, VDH19, BWP<sup>+19b</sup>, RHSM<sup>+18b</sup>, RHSM<sup>+18a</sup>]. **diagnostics** [LML<sup>+13</sup>]. **Dicauda** [LRB<sup>+17</sup>]. **dicentrarchi** [AHITC18, IGLG<sup>+17</sup>, KAF<sup>+19</sup>, LITCAH19b]. **Dicentrarchus** [CKTT10, FCM<sup>+19</sup>, FPK<sup>+17</sup>, LMC<sup>+16</sup>, NOST<sup>+16</sup>, PBC15, PST<sup>+16</sup>,

RRC<sup>+17</sup>, RGD<sup>+12</sup>, TMC<sup>+12</sup>, TNK12, VTM<sup>+14</sup>]. **Dichelestium** [SAD<sup>+12</sup>]. **dichotomy** [VC17]. **diclina** [SWWN<sup>+16</sup>]. **Dicologoglossa** [LPVGL<sup>+10</sup>]. **did** [OBFR12]. **Didymodiclinus** [PMP<sup>+18</sup>]. **Didymozoidae** [PMP<sup>+18</sup>]. **diet** [BSD<sup>+18d</sup>, HOHG13]. **Dietary** [MLF<sup>+10</sup>, AFTEML19, AMA11, BCBS<sup>+13</sup>, DTF<sup>+16</sup>, DMB<sup>+19</sup>, LKS<sup>+13</sup>, PCK<sup>+15</sup>, SFR<sup>+17</sup>]. **differ** [BDD<sup>+18</sup>]. **Difference** [LZZN10]. **Differences** [JOF<sup>+19</sup>, TDLT<sup>+16</sup>, BLF<sup>+16</sup>, RSPA<sup>+18</sup>, SHO<sup>+17</sup>, SFU<sup>+13</sup>]. **Different** [ZXW<sup>+12</sup>, BRL<sup>+13</sup>, CRO<sup>+18</sup>, CPdPP16, CRS<sup>+13</sup>, DDBC<sup>+15</sup>, DMK<sup>+19</sup>, ELI<sup>+17</sup>, GFS<sup>+14</sup>, GRG<sup>+16</sup>, HKK<sup>+11b</sup>, HH13a, HZX<sup>+13</sup>, JAR<sup>+11</sup>, JR19, JPG<sup>+19</sup>, JKH<sup>+17</sup>, JHGR13, JBGP11, JJSJ15, JSJR<sup>+18</sup>, JSJR<sup>+19</sup>, KEY<sup>+15</sup>, MAC<sup>+15</sup>, PST<sup>+16</sup>, RHTC19b, SSV<sup>+10</sup>, SWWN<sup>+16</sup>, TDS<sup>+19</sup>, VTM<sup>+14</sup>, WBF<sup>+10</sup>, ZYW<sup>+10</sup>]. **Differential** [CZL<sup>+19</sup>, OLVJ<sup>+13</sup>, PMW<sup>+10</sup>, RSB13, VBL<sup>+16</sup>, WCL<sup>+12</sup>, ZJR<sup>+18</sup>, CLW<sup>+11</sup>, CLT<sup>+14</sup>, CDG<sup>+14</sup>, HB12, NSE<sup>+17</sup>]. **differentially** [LSA<sup>+15</sup>]. **differentiated** [CIA<sup>+18</sup>, SJSA<sup>+14</sup>]. **differentiates** [GLK<sup>+16</sup>]. **differentiation** [JSJR<sup>+18</sup>, RMSH09, SEM18]. **differs** [KBTMH<sup>+16</sup>]. **diffusion** [SK15]. **digenean** [DLP<sup>+13</sup>, DAO19]. **digestion** [RRG<sup>+19</sup>]. **digestive** [BT14, DPTFC10]. **Diggles** [Dig15, Pol15]. **dilation** [LWMT10]. **dimensional** [KTK17, LLL<sup>+12</sup>]. **Dinophyceae** [YB17]. **dioces** [DD15]. **Diodon** [SBK<sup>+13</sup>]. **dioica** [AA10]. **dip** [NCNB18]. **Diphyllothorium** [KFK<sup>+16</sup>, KKKA17]. **Diplodus** [KPT<sup>+11</sup>]. **diploid** [AAV<sup>+16</sup>, LWZ<sup>+18</sup>, SFR<sup>+17</sup>]. **diplomonad** [MLWC11]. **dips** [TJR<sup>+18</sup>]. **dipstick** [WSX<sup>+18</sup>]. **Direct** [DXX<sup>+15</sup>, GCNB18, vGJHS<sup>+11</sup>, LCR<sup>+10</sup>, SSHEM11]. **disc** [SK15]. **discus** [AFTEML19, RKK<sup>+19</sup>, RKK<sup>+19</sup>]. **Disease** [AHTCA<sup>+17</sup>, SWD<sup>+14</sup>, ATJS<sup>+18</sup>, ACN12, AAUHW15, AFTEML19, Ano10c, BSW17, BMMC<sup>+15</sup>, BTN<sup>+18</sup>, BHFI3, BPCS19, BSK<sup>+10</sup>, BSSH17, BPK<sup>+17</sup>, BMT<sup>+15</sup>, BSBH10, CCLGRM<sup>+17</sup>, CVGR<sup>+13</sup>, CJB<sup>+15</sup>, CHV<sup>+12</sup>, CPP14, CCME16, CRAG<sup>+12</sup>, CONN10, DD18, DMB<sup>+19</sup>, DBHC17, DML<sup>+16</sup>, DTJ<sup>+17</sup>, DYML<sup>+18</sup>, DSJA18, DT16, FFLC17, GCNB16, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, GKO<sup>+14</sup>, GDW<sup>+15</sup>, GMN12, GBSF12, HZP<sup>+12</sup>, HHX<sup>+15</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JJB15, JJM<sup>+17</sup>, KRD<sup>+17</sup>, KTP<sup>+15</sup>, KAF<sup>+19</sup>, KOI<sup>+14</sup>, KTN<sup>+16</sup>, KYB<sup>+15</sup>, LGK<sup>+14</sup>, LKS<sup>+13</sup>, LLS<sup>+11</sup>, LRMN17, MBS<sup>+19a</sup>, MNF<sup>+15</sup>, MKI<sup>+15</sup>, MLER<sup>+18</sup>, MTG<sup>+10</sup>, MR11, MA16, MCCN14, NPGA<sup>+19</sup>, NBJ10, NDA10, OLVJ<sup>+13</sup>, OSAA18, OCLI<sup>+19</sup>, OLT<sup>+10</sup>, PHvdH12, PRT<sup>+14</sup>, PGF<sup>+19</sup>, PRY<sup>+18</sup>, QPB<sup>+16</sup>, RSP<sup>+17</sup>, RRG<sup>+19</sup>, RPJ<sup>+18</sup>, RHB<sup>+15</sup>, SHW<sup>+11</sup>, SHS14, SMS<sup>+10</sup>, STS<sup>+15</sup>, SDM<sup>+19</sup>, SSF<sup>+17</sup>, SQC<sup>+14</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TOK<sup>+16</sup>, TWNB<sup>+12</sup>, TCC10a, VFB<sup>+12</sup>, WMM<sup>+16</sup>]. **disease** [WNO<sup>+18</sup>, XKB12, ZYW<sup>+10</sup>, ZWG<sup>+17</sup>, ZDWH18]. **disease-causing** [DD18]. **diseased** [AI11, BAD<sup>+12</sup>, CMSHS16, CLZ<sup>+12</sup>, GCMG<sup>+11</sup>, KOS<sup>+10</sup>, LPVGL<sup>+10</sup>, OSC<sup>+14</sup>, PKPG15, PAZ18, RKK<sup>+19</sup>, SMV<sup>+14</sup>, SG12, WNCR12]. **Diseases** [LYD<sup>+15</sup>, Tre12, BMBS12, EEMCEGSP16, HAS<sup>+19</sup>, JBO<sup>+15</sup>, KKT<sup>+18a</sup>, LTG<sup>+18</sup>, LTM<sup>+19</sup>, MKY<sup>+15</sup>, NFA15, OLVJ<sup>+13</sup>, Spe19b]. **disinfectant** [MoSMS18]. **disinfectants** [JST<sup>+19</sup>, SHS14]. **Disinfection**

[ITKH18, BMK17, DD18, MUM<sup>+</sup>19, OBD10]. **disorders** [KOB<sup>+</sup>17]. **dispersal** [SCF<sup>+</sup>13, SDI<sup>+</sup>18]. **displaying** [WNAJ<sup>+</sup>16]. **displays** [BSB<sup>+</sup>18]. **disposal** [DAB<sup>+</sup>12]. **Disruption** [OWM<sup>+</sup>17, ZCQF15]. **Dissection** [LNC<sup>+</sup>17]. **Disseminated** [DSMC17, RKH17, SCZM19, DIVC16]. **dissolved** [MTLP<sup>+</sup>18b]. **distances** [SMR16]. **distinct** [EDN18, IBFL19, LLC<sup>+</sup>11]. **distinguishing** [FNISE12]. **Distribution** [AGFG19, BMH<sup>+</sup>19, LUP<sup>+</sup>18, MMMD16, AOAH13, CHWM<sup>+</sup>19, DPC<sup>+</sup>10, EKED<sup>+</sup>17, GFR<sup>+</sup>12, LBF<sup>+</sup>14, MRR<sup>+</sup>14, MJ17, NRF<sup>+</sup>18, NHM<sup>+</sup>10, PPE<sup>+</sup>18, SHO<sup>+</sup>17, SSV<sup>+</sup>17, TDJ<sup>+</sup>10]. **disturbances** [PHVM13]. **divergence** [FMA<sup>+</sup>19, MBS<sup>+</sup>17]. **divergent** [BVL<sup>+</sup>18]. **diverse** [HGX<sup>+</sup>19, LF18, ME12]. **Diversity** [CHV<sup>+</sup>12, ASB<sup>+</sup>12, BAD<sup>+</sup>12, BFC<sup>+</sup>15, DMP10, DLPR15, ISCF<sup>+</sup>19, MPBM<sup>+</sup>16, MWS17, PdLC19, PPSW19, TCM<sup>+</sup>19, WMD<sup>+</sup>18, WNMK<sup>+</sup>16]. **DIFBL** [PBC15]. **DNA** [ASHZ<sup>+</sup>12, CLGP15, CGR17, Dal18, DCMM13, EPCS18, GCCLRP<sup>+</sup>13, HLL<sup>+</sup>12, KKT<sup>+</sup>18b, KKT<sup>+</sup>18a, LDL13, LFH<sup>+</sup>11, RSGB<sup>+</sup>14, TQW<sup>+</sup>14, WCL<sup>+</sup>19, YGL<sup>+</sup>18, YEK<sup>+</sup>17, ZWL<sup>+</sup>14]. **DNA-binding** [WCL<sup>+</sup>19]. **DnaK** [PHW<sup>+</sup>16, SNM<sup>+</sup>16]. **Do** [FBS13, NBJ10, PPF<sup>+</sup>12, FCJH19, RHB<sup>+</sup>15]. **docking** [SRD<sup>+</sup>16]. **docosahexaenoic** [BCBS<sup>+</sup>13]. **doctor** [VME<sup>+</sup>19]. **Does** [HBH<sup>+</sup>19, CRBLC<sup>+</sup>17, BPCS19]. **dollar** [ALG15]. **domain** [ZGY<sup>+</sup>18]. **dopamine** [DSSB19]. **dorsal** [KLW10]. **dosage** [dOAPLá<sup>+</sup>17]. **dose** [CLGP15, HH13b, NSC<sup>+</sup>18, PPI<sup>+</sup>13, Sam10, WWE<sup>+</sup>13]. **dosing** [RHTC19b]. **dot** [LCR<sup>+</sup>10]. **double** [MKI<sup>+</sup>15]. **double-virus-infected** [MKI<sup>+</sup>15]. **doubling** [MLWC11]. **Down** [RBM<sup>+</sup>16]. **Down-regulation** [RBM<sup>+</sup>16]. **Dr** [Rob11]. **Dr.** [Cip11, EW17, Rob14a]. **Drasche** [KOS<sup>+</sup>10, PZL<sup>+</sup>14]. **Dried** [ZTF<sup>+</sup>10]. **drivers** [JMD<sup>+</sup>18]. **drop** [GKCC<sup>+</sup>12, SDM<sup>+</sup>19, ZDWH18]. **drug** [dSCBds<sup>+</sup>16, RKK<sup>+</sup>19]. **drugs** [PZL<sup>+</sup>14,ZN10]. **dry** [SG12]. **dry-stored** [SG12]. **dsRNA** [DPADO16, SSV<sup>+</sup>10, TMM<sup>+</sup>15]. **dual** [VLVS<sup>+</sup>16]. **dual-labelled** [VLVS<sup>+</sup>16]. **due** [ABM<sup>+</sup>15, JJB15, RKH17]. **Dujardin** [KWGS19, MKK<sup>+</sup>11]. **Dumbo** [DAO19]. **dumerili** [MKH<sup>+</sup>11, dSRSHGá<sup>+</sup>19]. **duplex** [FGR<sup>+</sup>12]. **duration** [HLHS11]. **during** [BMT<sup>+</sup>15, CHWM<sup>+</sup>19, CG11, DMB<sup>+</sup>19, DYML<sup>+</sup>18, EDN18, FvdMF<sup>+</sup>18, GTGCM19, HH13a, JKL<sup>+</sup>13, KHG<sup>+</sup>17, LGJ19, LXZ<sup>+</sup>19, OJRL10, PTM<sup>+</sup>19, RHS<sup>+</sup>12, RCGGM15, SMS<sup>+</sup>10, SMJ<sup>+</sup>12, SHKF16, VMBGE17, XJL<sup>+</sup>19]. **dusky** [PMP<sup>+</sup>18, RBS<sup>+</sup>16, RSF<sup>+</sup>17]. **dwarf** [RWTB17]. **dyed** [Góm12]. **Dynamics** [KBTMH<sup>+</sup>16, MSMM19, HHO14, HKG<sup>+</sup>15, JPG<sup>+</sup>19, SVY<sup>+</sup>14, SSL18, YLL<sup>+</sup>18]. **dysfunction** [LGJ19]. **dysgalactiae** [CLLF14, NLF11, NM1Y14, TWYC15]. **dysregulation** [CCHL13].

**E.** [ZDWH18]. **Early** [WFH<sup>+</sup>18, WOD16, BPK<sup>+</sup>17, HGG<sup>+</sup>11, ICSV16, vGJHS<sup>+</sup>11, LF18, LSC<sup>+</sup>14, MNG<sup>+</sup>18, MTA<sup>+</sup>15, MTAB15, MPS<sup>+</sup>18, RRO<sup>+</sup>13, SMJ<sup>+</sup>12, SFU<sup>+</sup>13, YK13, dALF<sup>+</sup>17]. **Early-stage** [WOD16]. **East** [Dig13, Dig15, GMP<sup>+</sup>11, RBR19, CCW<sup>+</sup>15, LZGZ16, Pol15]. **eastern** [CBM<sup>+</sup>17, CBM<sup>+</sup>18, PdSG<sup>+</sup>12, VPS<sup>+</sup>14, WMF14, LDA<sup>+</sup>19]. **echinostomatid** [MGM<sup>+</sup>16]. **Ecological** [PMP<sup>+</sup>18]. **economic** [KNN19].

**ecosystem** [JMD<sup>+18</sup>]. **ectoparasites** [STIG17]. **ectoparasitic** [MUM<sup>+19</sup>, TGJCH15]. **Ectopic** [BKG<sup>+18</sup>]. **ectopically** [TPD<sup>+19</sup>]. **edema** [ABVS18, MBS<sup>+17</sup>, MSB<sup>+19</sup>]. **edible** [DdRTM13, KOS<sup>+10</sup>, PZL<sup>+14</sup>, SWH<sup>+14</sup>]. **Editorial** [RW10, RW11, Rob13, Rob14b, Spe15, Woo12]. **edule** [RAVC18]. **edulis** [BRL<sup>+13</sup>, BLSG<sup>+16</sup>]. **Edward** [MMMD16]. **Edwards** [CG11, GMP<sup>+11</sup>, NRMS14, SQC<sup>+14</sup>, ZB12]. **Edwardsiella** [ACAS14, ACLP<sup>+19</sup>, BAD<sup>+12</sup>, CDM<sup>+16</sup>, CGAS19, CTD<sup>+12</sup>, COB<sup>+16</sup>, CTK<sup>+10</sup>, DMK<sup>+19</sup>, EAN<sup>+18</sup>, EA18, GRG<sup>+16</sup>, GPWF19, KTK17, KMGK<sup>+18</sup>, KREM14, LKS<sup>+13</sup>, LML<sup>+13</sup>, PRWG17, PRSK10, PMK12, QXW14, RSR<sup>+18</sup>, SMV<sup>+14</sup>, SRT<sup>+14</sup>, VST<sup>+19</sup>, WZA10, YK13, ZXW<sup>+12</sup>]. **Edwardsiellosis** [QXW14, LML<sup>+13</sup>]. **edwardsii** [ZJDL18]. **eel** [ARFG13, BMD<sup>+14</sup>, BND<sup>+17</sup>, BCG<sup>+17</sup>, GFM<sup>+16</sup>, IGLG<sup>+17</sup>, KYK<sup>+12</sup>, KPK<sup>+18</sup>, KLD<sup>+18</sup>, MBD16, MFES18, MWS17, MSS<sup>+12</sup>, NJK<sup>+17</sup>, OMO<sup>+15</sup>, PWHW18b, PWW19, SWE<sup>+19</sup>, WCW<sup>+16b</sup>, WTM14]. **eelpout** [AHB<sup>+17</sup>]. **eels** [BSC<sup>+14</sup>, CSA<sup>+15</sup>, CHF<sup>+12</sup>, EMA17, EA18, FDST16, KAST17, LML12, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, WCW<sup>+16b</sup>]. **Effect** [AMA11, CMEV17a, CAS<sup>+18</sup>, DSSB18, DSSB19, GVB<sup>+17a</sup>, HKBD15a, JQK14, KSM<sup>+17</sup>, KBE<sup>+14</sup>, KCL14, MMD<sup>+12</sup>, RRG<sup>+19</sup>, SSSP18, SK15, SDR<sup>+15</sup>, SCS<sup>+12</sup>, SW11, AHH16, AH16, AMRHM18, ACA<sup>+16</sup>, AAV<sup>+16</sup>, BND<sup>+17</sup>, BLP10, CGR17, CMH<sup>+17</sup>, DSA<sup>+12</sup>, ESA<sup>+10</sup>, FFP<sup>+14</sup>, GBV<sup>+16</sup>, GHB<sup>+11</sup>, HFKF17, IPW<sup>+13</sup>, LAN<sup>+14</sup>, MTK<sup>+10</sup>, OLC11, PVIM18, SSC17, YSHG18, YFA<sup>+17</sup>, SOGR<sup>+19</sup>]. **effective** [ANB<sup>+19</sup>, CB13, SMFM12]. **effectively** [RPMLJ<sup>+19</sup>]. **effectiveness** [GVB<sup>+17b</sup>, GVB<sup>+17a</sup>, NNC<sup>+18</sup>, TJR<sup>+18</sup>]. **Effects** [BPCS19, JBGP11, JJV<sup>+15</sup>, KFK<sup>+16</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, PG16, PMPG<sup>+16</sup>, TTL<sup>+16</sup>, TMC<sup>+12</sup>, VDO<sup>+18b</sup>, VMCM14, BSD<sup>+18d</sup>, BHA<sup>+17</sup>, EDP<sup>+17</sup>, ELI<sup>+17</sup>, HBB14, JST<sup>+19</sup>, LLL<sup>+18a</sup>, MDF<sup>+17</sup>, MMMD16, NCNB18, PNBK13, PMBM13, PPI<sup>+13</sup>, SHS14, UKS<sup>+18</sup>, VCLW16, VBL<sup>+15</sup>, WXWD15, XKB12]. **Efficacy** [BNS13, FHD13, HLL<sup>+12</sup>, HJN<sup>+19</sup>, MSCH14, RSH11, SSV<sup>+10</sup>, SGB<sup>+16</sup>, SKGE13, WGL17, ZPM<sup>+18</sup>, BAH<sup>+16</sup>, CDW17, DD18, ESA<sup>+10</sup>, HLHS11, HCL<sup>+14</sup>, KWGS19, LML12, LWJ<sup>+16</sup>, MWRSK17, MA16, NCNB18, OMB<sup>+19</sup>, PZL<sup>+14</sup>, RNM<sup>+12</sup>, SMR10, SSSP18, TNK12, VDO<sup>+18a</sup>]. **efficient** [EYF<sup>+19</sup>]. **efforts** [JR19]. **EGCG** [WCR<sup>+18</sup>]. **egg** [AHH16, BAH<sup>+16</sup>, FHFF15, GM11, MGM<sup>+18</sup>]. **eggs** [KBE<sup>+14</sup>, MWRSK17, OBD10, SWWN<sup>+16</sup>, SMFM12, TES11]. **Egusa** [ZCC18]. **Egyptian** [NFF<sup>+17</sup>]. **EHP** [SSV<sup>+17</sup>]. **EHP-infected** [SSV<sup>+17</sup>]. **Eigenmann** [Lek12]. **eight** [JCN<sup>+13</sup>, JCN<sup>+14</sup>, KRFT14]. **EIIB** [XXL<sup>+19</sup>]. **Eimeriidae** [dSdAdS<sup>+19</sup>]. **ELASA** [YLX<sup>+19a</sup>, ZLN<sup>+17</sup>]. **Elasmobranchii** [MdOO16]. **elasmobranchs** [KJB11]. **electric** [MSS<sup>+12</sup>]. **electricus** [MSS<sup>+12</sup>]. **electrophoresis** [LLL<sup>+12</sup>, TAC15]. **Electrophorus** [MSS<sup>+12</sup>]. **Eleginops** [GOM<sup>+19</sup>]. **element** [CYS17]. **Elevation** [Bin14]. **ELISA** [BWZ<sup>+17</sup>, LMG<sup>+19</sup>, ZWG<sup>+18</sup>]. **Ellidaár** [áKÁGA16]. **Ellis** [Rob11]. **elongation** [PLCC11]. **elongatoides** [FŠK<sup>+19</sup>]. **EM-90-like** [RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SHO<sup>+17</sup>]. **EM90** [MID<sup>+19b</sup>, MID<sup>+19a</sup>]. **EM90-like**

[MID<sup>+19</sup>a, MID<sup>+19</sup>b]. **emaciation** [KOI<sup>+14</sup>]. **emamectin** [GSS<sup>+10</sup>, HLHS11, IPW<sup>+13</sup>, JHGR13, KWGS19, LML12, PPI<sup>+13</sup>, SMR10, SMM<sup>+13</sup>, Sam10, WWE<sup>+13</sup>]. **emarginatus** [VDO<sup>+18</sup>a]. **embedded** [FBL<sup>+14</sup>, FGR<sup>+12</sup>]. **emerald** [HAP<sup>+10</sup>, LRB<sup>+17</sup>, MGN<sup>+16</sup>]. **Emergence** [AHB<sup>+17</sup>, JHGR13]. **Emerging** [BK12, EKT<sup>+11</sup>, NSC<sup>+15</sup>, OLVJ<sup>+13</sup>, PRT<sup>+14</sup>, VJWC<sup>+18</sup>]. **emphasis** [VGI<sup>+16</sup>, WBD10a]. **employ** [SWWN<sup>+16</sup>]. **employing** [MFES18]. **empty** [CBM<sup>+18</sup>]. **EMS** [BPK<sup>+17</sup>, ITKH18]. **EMS/** [ITKH18]. **EMS/AHPND** [BPK<sup>+17</sup>]. **Encephalomyelitis** [MKH<sup>+11</sup>, YYF<sup>+10</sup>]. **encephalopathy** [DVC<sup>+17</sup>, GFB<sup>+13</sup>, NOST<sup>+16</sup>, VPP<sup>+12</sup>]. **encoded** [CCLL16, CGW<sup>+19</sup>, LCC<sup>+15</sup>]. **endangered** [VPP<sup>+12</sup>]. **endocarditis** [WEPB<sup>+18</sup>]. **endogenous** [BMBS12]. **Endolimax** [CPP14, CPdPP16]. **endoparasitic** [Buc12]. **endothelial** [OMO<sup>+15</sup>, WCW<sup>+16</sup>b]. **England** [TDJ<sup>+10</sup>, TWJP10]. **Enhanced** [MTHB13, NNC<sup>+18</sup>]. **Enhancement** [SRB12, LSC<sup>+14</sup>]. **enhances** [CR12, ZCJ<sup>+18</sup>]. **enhancing** [BRB<sup>+12</sup>]. **enolase** [BMT<sup>+15</sup>]. **enrichment** [YGL<sup>+18</sup>]. **enteric** [DPC<sup>+10</sup>, LXI<sup>+18</sup>, XLZ<sup>+17</sup>]. **entering** [CDM<sup>+13</sup>, VCR<sup>+11</sup>]. **enteritis** [MTLP<sup>+18</sup>b, WZQ<sup>+16</sup>]. **Enterobacter** [GCNB16]. **Enterobacteriaceae** [KMGK<sup>+18</sup>]. **enterobacterial** [TAC15]. **enterocytes** [RRO<sup>+13</sup>]. **Enterocytozoon** [KS19, SSV<sup>+17</sup>, TSK<sup>+19</sup>]. **enteromyxosis** [LBF<sup>+14</sup>]. **Enteromyxum** [ERÁpSB14, SSJ<sup>+19</sup>]. **Enterospora** [ACSB<sup>+19</sup>]. **enterotoxin** [MBB12]. **envelope** [LC17]. **environment** [JFWH19]. **environmental** [DIVC16, GFM<sup>+16</sup>, HSA17, KOB<sup>+17</sup>, SMR16]. **environments** [EMA17, MKKM15, PJL<sup>+12</sup>]. **enzyme** [BWZ<sup>+17</sup>, BA14, NMiy14, YLX<sup>+19</sup>a, ZLN<sup>+17</sup>]. **enzyme-linked** [BWZ<sup>+17</sup>, NMiy14, YLX<sup>+19</sup>a, ZLN<sup>+17</sup>]. **enzymes** [BSV<sup>+18</sup>, BSD<sup>+18</sup>a]. **epaulette** [JK12]. **EPC** [WBD<sup>+10</sup>b]. **Ephippidae** [DTM<sup>+10</sup>]. **epicarditis** [DKG<sup>+17</sup>]. **Epidemiological** [GJVT<sup>+11</sup>, SEK<sup>+16</sup>, DIVC16, GCW17, JHRW17, MSBB<sup>+16</sup>, MFS<sup>+17</sup>, SMS<sup>+10</sup>]. **epidemiology** [EEMCEGSP16, JJM<sup>+17</sup>, NBJ10]. **Epidermal** [CKJ<sup>+14</sup>, PJU<sup>+13</sup>]. **epidermoid** [SdMVS<sup>+16</sup>]. **Epinephalus** [OKS<sup>+13</sup>]. **Epinephelus** [BFFA<sup>+12</sup>, CBH<sup>+15</sup>, DDBC<sup>+15</sup>, FHZ<sup>+16</sup>, GHH<sup>+11</sup>, GHW<sup>+15</sup>, KCD<sup>+14</sup>, LXI<sup>+18</sup>, LSC<sup>+14</sup>, LSA<sup>+15</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, NNC<sup>+18</sup>, NDA<sup>+19</sup>, OTN<sup>+12</sup>, PMP<sup>+18</sup>, RBS<sup>+16</sup>, RSF<sup>+17</sup>, SSF<sup>+17</sup>, Wen16, WCL<sup>+12</sup>, XLZ<sup>+17</sup>, ZDWH18]. **epithelial** [AHPR<sup>+16</sup>, BCLM<sup>+19</sup>, BKG<sup>+18</sup>, GCM<sup>+18</sup>b, RBL<sup>+11</sup>, VBL<sup>+16</sup>]. **Epitheliocystis** [CMR<sup>+16</sup>, MSR<sup>+10</sup>, SN14, SPV<sup>+18</sup>, SVV<sup>+17</sup>]. **Epithelioma** [GSBEM15, WBD<sup>+10</sup>b]. **Epizootic** [CCM<sup>+11</sup>, BO15, CCT<sup>+11</sup>, CLW<sup>+13</sup>, CdAPdC<sup>+19</sup>, DWL<sup>+17</sup>, HHC<sup>+18</sup>, LFL19]. **Epizootics** [BDB<sup>+18</sup>, HGG<sup>+11</sup>]. **epizootiologic** [FLVA10]. **erectus** [BCW<sup>+15</sup>, QWTL17, SBHC18, WZQ<sup>+16</sup>]. **Ergens** [BGRB14]. **Eriocheir** [DML<sup>+16</sup>, DCZ<sup>+17</sup>, FGJ<sup>+10</sup>, HGW<sup>+19</sup>, SCS<sup>+12</sup>, ZB12, DCL<sup>+17</sup>]. **eriocheiris** [DXX<sup>+15</sup>, HGW<sup>+19</sup>, LXX<sup>+17</sup>]. **ERM** [WGL17]. **erosions** [ONA10]. **Erratum** [Ano10a, Ano10b, Ano11, Ano14, RMSH10, TCC10b].

**Erysipelothrix** [CSA<sup>+</sup>15, PRY<sup>+</sup>18]. **erythrocytes** [VSDS<sup>+</sup>19a].  
**Erythromycin** [JML19, DdRCP13, DPCdR14, LLX<sup>+</sup>19].  
**erythromycin-resistant** [LLX<sup>+</sup>19]. **erythropolis** [PBMB11].  
**erythropterus** [CLWJ13, TIK<sup>+</sup>14b]. **escaped** [MKI<sup>+</sup>15]. **Escherichia**  
[SNM<sup>+</sup>16]. **Esox** [Ano12c, KF10b, MF12, Reh13]. **Essential**  
[VGI<sup>+</sup>16, BSD<sup>+</sup>18c, OJRL10, VDO<sup>+</sup>18a, ZKL<sup>+</sup>19]. **establish** [OM10].  
**established** [AZSSZZ13]. **Establishment**  
[BNC<sup>+</sup>11, CLL<sup>+</sup>10, GHH<sup>+</sup>11, GHW<sup>+</sup>15, IFF<sup>+</sup>15, KLW10, KAESEM13,  
LJC<sup>+</sup>19, WWS<sup>+</sup>11, WWZ<sup>+</sup>18, WZW<sup>+</sup>18, XWP<sup>+</sup>18, YNL11, dOAPLá<sup>+</sup>17].  
**estimate** [KKKA17]. **estimates** [GBV<sup>+</sup>16, GVB<sup>+</sup>17a, MMG<sup>+</sup>11].  
**Estimating** [HDWM15]. **estuary** [DCV<sup>+</sup>14]. **ethanolic** [BAH<sup>+</sup>16].  
**Etroplus** [MRN<sup>+</sup>19]. **EU** [VCR<sup>+</sup>11]. **Euglena** [YSHG18]. **Eurasian**  
[BGRB14]. **europaeus** [DABO<sup>+</sup>17]. **Europe**  
[BLL<sup>+</sup>17, BMMP<sup>+</sup>14, COB<sup>+</sup>16, DKBS17, SBD11, SMJ<sup>+</sup>14, VCS<sup>+</sup>19].  
**European** [ARFG13, BMD<sup>+</sup>14, BND<sup>+</sup>17, BLSG<sup>+</sup>16, CGP<sup>+</sup>19, CKTT10,  
EA18, FCM<sup>+</sup>19, FPK<sup>+</sup>17, FDST16, GFM<sup>+</sup>16, KAST17, LMC<sup>+</sup>16, MBD16,  
MFES18, MAOS<sup>+</sup>18, MNM<sup>+</sup>18, NJK<sup>+</sup>17, PBM<sup>+</sup>15, PST<sup>+</sup>16, RRC<sup>+</sup>17,  
RPM<sup>+</sup>19, SWE<sup>+</sup>19, TMC<sup>+</sup>12, TNK12, Tre12, VTM<sup>+</sup>14, VC17]. **eutropha**  
[HBH<sup>+</sup>19]. **eutrophic** [HWO<sup>+</sup>17]. **evaluate** [LTG<sup>+</sup>18, RSF<sup>+</sup>17]. **evaluated**  
[MSC<sup>+</sup>17]. **Evaluating** [GVB<sup>+</sup>17b, HCL<sup>+</sup>14]. **Evaluation**  
[ATM<sup>+</sup>10, CBLN13, HKBD15b, RAM<sup>+</sup>19, ASS19, DSSB18, DSSB19, EAN<sup>+</sup>18,  
FDST16, HLHS11, KWGS19, LTC<sup>+</sup>14, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b, LWJ<sup>+</sup>16,  
LLWL15, MID<sup>+</sup>19b, MNG<sup>+</sup>18, PVIM18, PPK<sup>+</sup>13, YDO<sup>+</sup>16, ZCCN13].  
**event** [BGC<sup>+</sup>17, BVT<sup>+</sup>18, BVL<sup>+</sup>18, DABO<sup>+</sup>17, FSC<sup>+</sup>16, KHLL16, LEM<sup>+</sup>19,  
MMW<sup>+</sup>15]. **events** [CdAPdC<sup>+</sup>19, GVB<sup>+</sup>17a, PTM<sup>+</sup>19]. **Evidence**  
[AHAMR<sup>+</sup>19, CZB<sup>+</sup>11, RDN<sup>+</sup>12, RGD<sup>+</sup>13, VME<sup>+</sup>19, YTKS19, ZN10,  
APP<sup>+</sup>17, CSS<sup>+</sup>16, CRO<sup>+</sup>18, COB<sup>+</sup>16, DJQ<sup>+</sup>12, DCMM13, GB18, GFW<sup>+</sup>10,  
HSC<sup>+</sup>16, IAR<sup>+</sup>10, vGJHS<sup>+</sup>11, KYK<sup>+</sup>12, KSA<sup>+</sup>10, MBS<sup>+</sup>17, MDC<sup>+</sup>18,  
MUM<sup>+</sup>19, ISCF<sup>+</sup>19]. **evolution** [SJ11, YGL<sup>+</sup>18]. **Examination**  
[MTA<sup>+</sup>15, HKF<sup>+</sup>16, JMHK18, MMMD16, MFES18]. **examining** [JSJR<sup>+</sup>19].  
**excised** [GGW<sup>+</sup>11]. **Exclusion** [AJLC<sup>+</sup>16]. **exercise** [GMC<sup>+</sup>16b]. **exerts**  
[BSD<sup>+</sup>18d]. **exhibit** [JGI<sup>+</sup>10]. **exilis** [RKPG16]. **exitiosa** [BLSG<sup>+</sup>16].  
**exogenous** [Góm12]. **Exophiala** [CBH<sup>+</sup>15, ŘKH17, ŘKH18, SBP<sup>+</sup>19].  
**Exophthalmia** [HFKF17]. **exopolysaccharides** [RBH<sup>+</sup>17]. **exotoxin**  
[RGD<sup>+</sup>13]. **expansion** [TALA11]. **experiencing**  
[GJM<sup>+</sup>15, NFF<sup>+</sup>17, RHZA<sup>+</sup>16]. **Experimental**  
[ABT<sup>+</sup>14, CAJD<sup>+</sup>18, CTK<sup>+</sup>10, DCMM13, FSV<sup>+</sup>18, ICVV16, vGJHS<sup>+</sup>11,  
KS19, KF10a, LSA<sup>+</sup>15, MUM<sup>+</sup>19, SON<sup>+</sup>18, WKW<sup>+</sup>11, ZCP12, AHHR<sup>+</sup>10,  
BSW17, Buc12, CJB<sup>+</sup>15, EDP<sup>+</sup>17, GFM<sup>+</sup>11, GBSF12, GRF14, GRP<sup>+</sup>15,  
JAR<sup>+</sup>11, KSA<sup>+</sup>10, LPA<sup>+</sup>10, LTG<sup>+</sup>18, MGM<sup>+</sup>18, MMMD16, MID<sup>+</sup>19b,  
PBM<sup>+</sup>15, PNBK13, ŘKH18, RHB<sup>+</sup>15, SGB<sup>+</sup>16, TDS<sup>+</sup>19, WIC<sup>+</sup>19, YDO<sup>+</sup>16].  
**experimentally** [ACN12, Ano12c, BSV<sup>+</sup>18, BSSB18, BSD<sup>+</sup>18b, BSD<sup>+</sup>18c,  
BSB<sup>+</sup>18, FCM<sup>+</sup>19, HGB<sup>+</sup>11, JML19, KSM<sup>+</sup>17, LF16, MF12, MTA<sup>+</sup>15,  
MTAB15, RSIP<sup>+</sup>17, SSV<sup>+</sup>17, SFL<sup>+</sup>16, TJB<sup>+</sup>15, TSS18, VTM<sup>+</sup>14].

**experiments** [FBAS16, KAESEM13]. **exploited** [LXX<sup>+</sup>17]. **exponential** [YGL<sup>+</sup>18]. **exposed** [Ano12c, CTK<sup>+</sup>10, FBK<sup>+</sup>16, FSO<sup>+</sup>10, HSGD11, KSA<sup>+</sup>10, KPM<sup>+</sup>11, MF12, SCR<sup>+</sup>15]. **exposure** [BSW17, CAS<sup>+</sup>18, DDBC<sup>+</sup>15, GFM<sup>+</sup>16, GGW<sup>+</sup>11, HCCM12, HKBD15b, HGG<sup>+</sup>11, IPW<sup>+</sup>13, MMMD16, PÅD18, TMC<sup>+</sup>12, VCN<sup>+</sup>10, VMCM14]. **exposures** [WNO<sup>+</sup>18]. **expressed** [JKC<sup>+</sup>11, LSA<sup>+</sup>15, OJRL10, SSV<sup>+</sup>10, TMM<sup>+</sup>15]. **expresses** [CGW<sup>+</sup>19]. **expressing** [EBM<sup>+</sup>18, ZXW<sup>+</sup>12]. **Expression** [ACYC10, PRSK10, PMK12, ZWY<sup>+</sup>11, AMA11, BPK<sup>+</sup>17, CLWJ13, CKJ<sup>+</sup>14, CG11, CDG<sup>+</sup>14, DMD<sup>+</sup>17, EDN18, FBVC16, IPW<sup>+</sup>13, JKH<sup>+</sup>17, JJS<sup>+</sup>12, LCV<sup>+</sup>17, NSE<sup>+</sup>17, NMiy14, NYRS12, RBM<sup>+</sup>16, RHVG<sup>+</sup>19b, RSPA<sup>+</sup>18, SHKF16, SCK13, SWD<sup>+</sup>14, SJSA<sup>+</sup>14, TvWO<sup>+</sup>16, UKS<sup>+</sup>18, WCL<sup>+</sup>12, YK12, YYW<sup>+</sup>14]. **extant** [GRP<sup>+</sup>15]. **external** [AJLK<sup>+</sup>18, DPD<sup>+</sup>18, HCEH16, JMHK18, PDLW17]. **extra** [WCW16a]. **extracellular** [BGG11]. **extract** [BAH<sup>+</sup>16, HDC18, MSCH14]. **Extraction** [LRD<sup>+</sup>19]. **extracts** [YLX<sup>+</sup>19b]. **Extreme** [CBM<sup>+</sup>17, NNCLGC<sup>+</sup>11]. **extremely** [SVL<sup>+</sup>17]. **Exuberant** [HSHC<sup>+</sup>16]. **eye** [PAM<sup>+</sup>19, SM14].

**F** [BWM<sup>+</sup>13, PBC15]. **F-fluorodeoxyglucose** [BWM<sup>+</sup>13]. **F-type** [PBC15]. **F.** [GDW<sup>+</sup>15]. **Fabaceae** [VDO<sup>+</sup>18a]. **Fabricius** [DCMM13, DBM<sup>+</sup>14, FSO<sup>+</sup>10, JJS<sup>+</sup>12, RDN<sup>+</sup>12, STS<sup>+</sup>15]. **facilities** [VPP<sup>+</sup>12]. **facing** [GAVC16]. **factor** [BRB<sup>+</sup>12, KREM14, LSC<sup>+</sup>14, PLCC11, SSJ<sup>+</sup>19, YAHWU11, ZKL<sup>+</sup>19]. **factor-Tu** [PLCC11]. **Factors** [CHAB10, HGG<sup>+</sup>11, TES16, BHF13, DSSB18, DSSB19, DIVC16, FMB<sup>+</sup>11, JSJR<sup>+</sup>19, KAS<sup>+</sup>18, MMMD16, RMS<sup>+</sup>13, ZZC<sup>+</sup>17, ZJDL18]. **facultative** [AHAMR<sup>+</sup>19]. **faeces** [GCNB18, GBSF12]. **fairy** [SHW<sup>+</sup>11, SHS14]. **fallowing** [OM10]. **families** [JAR<sup>+</sup>11]. **family** [CSS<sup>+</sup>16, MNG<sup>+</sup>18, UN10]. **fan** [ZJDL18]. **fantail** [CDM<sup>+</sup>16]. **fario** [BSPS<sup>+</sup>18]. **farm** [AZSSZZ13, AdOG<sup>+</sup>17, BPK<sup>+</sup>17, BVG<sup>+</sup>10, EWRH13, KTP<sup>+</sup>15, KDA<sup>+</sup>18, LLH<sup>+</sup>14b, RRC<sup>+</sup>17, SMM<sup>+</sup>13]. **farm-raised** [AdOG<sup>+</sup>17, KTP<sup>+</sup>15]. **farmed** [ATP<sup>+</sup>16, AGR<sup>+</sup>16, AGFG19, ATP<sup>+</sup>17, AHTCA<sup>+</sup>17, BVK<sup>+</sup>16, BHO<sup>+</sup>19, BO15, BMH<sup>+</sup>19, BGCKF12, CGP<sup>+</sup>19, CRAG<sup>+</sup>12, DTM<sup>+</sup>10, DWP<sup>+</sup>19, DPD<sup>+</sup>18, FKB<sup>+</sup>14, FMH<sup>+</sup>15, FSB<sup>+</sup>18c, FCS<sup>+</sup>18, GRB<sup>+</sup>17, GBO<sup>+</sup>18, GGH<sup>+</sup>10, GFR<sup>+</sup>12, GCGR13, HKK<sup>+</sup>11b, HKD<sup>+</sup>10, HPY<sup>+</sup>13, IAR<sup>+</sup>10, JCS11, JHRW17, JHGR13, KAS<sup>+</sup>18, KOB<sup>+</sup>17, KYK<sup>+</sup>12, KAST17, MKI<sup>+</sup>15, MSMM19, MLMR16, MLER<sup>+</sup>18, MMB<sup>+</sup>15, MCSM17, MRSC13, MSR<sup>+</sup>10, MHNY18, MKH<sup>+</sup>11, MGH<sup>+</sup>14, MCW<sup>+</sup>18, MNM<sup>+</sup>18, MNM<sup>+</sup>19, NOV<sup>+</sup>11, NMM<sup>+</sup>18, OGI<sup>+</sup>18, PdLC19, PRT<sup>+</sup>14, PGF<sup>+</sup>19, QXW14, QPB<sup>+</sup>16, ŘKH16, RFA<sup>+</sup>14, RMSH09, SMR10, SCD19, SDWA18, SDM<sup>+</sup>19, SPS<sup>+</sup>17, SKJ13, SSA13, SNK<sup>+</sup>19, Tre12, VDMJ<sup>+</sup>13, WMM<sup>+</sup>16, WNAJ<sup>+</sup>16, YLL<sup>+</sup>18, YAHWU11, YP17, ZCCN13, ZNHC11a, ZNHC11b, ZZA<sup>+</sup>14, ZSF16]. **farming** [BNS13, HSA17, JJB15, JR19, TAQ<sup>+</sup>10]. **farms** [BPK<sup>+</sup>17, BAH<sup>+</sup>18, CLS<sup>+</sup>15, CdAPdC<sup>+</sup>19, EWRH13, FLC<sup>+</sup>17, Gis18,

GFW<sup>+10</sup>, ISCF<sup>+19</sup>, MSBB<sup>+16</sup>, MSK<sup>+12</sup>, MCO11, NB11, NRF<sup>+18</sup>, NFF<sup>+17</sup>, OM10, SVM<sup>+18</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, WDM<sup>+15</sup>. **Faroe** [Gis18]. **fasciatus** [JJV<sup>+15</sup>, OKS<sup>+13</sup>]. **fast** [MLWC11, Sla14]. **fat** [RRG<sup>+19</sup>, SHV<sup>+16</sup>]. **fatal** [FSM<sup>+16</sup>]. **fate** [BSWS11]. **fathead** [AHHR<sup>+10</sup>, CXW<sup>+19</sup>, JBGP11, MGN<sup>+16</sup>, PPF<sup>+12</sup>, WBD<sup>+10b</sup>]. **fatty** [DTF<sup>+16</sup>, MLF<sup>+10</sup>]. **fauna** [HSA17]. **favoured** [EMA17]. **Fe** [PLCC11]. **Fe-S** [PLCC11]. **features** [BOH<sup>+12</sup>, DMD<sup>+17</sup>, FFLC17, RAM<sup>+17</sup>, VFB<sup>+12</sup>]. **fecundity** [USM17]. **fed** [BSD<sup>+18d</sup>, TMC<sup>+12</sup>]. **feed** [AA10, ESA<sup>+10</sup>, JKL<sup>+13</sup>, KSM<sup>+17</sup>, NFA15, PPI<sup>+13</sup>, PFC<sup>+13</sup>, RHB<sup>+15</sup>, XKB12, dOAPLá<sup>+17</sup>]. **feeding** [JSAH<sup>+18</sup>, SJSA<sup>+14</sup>]. **feeds** [CBW19, NPGA<sup>+19</sup>, PNBK13]. **female** [DBS12, RAM<sup>+17</sup>, ZDWH18]. **fenbendazole** [FHD13]. **Fenneropenaeus** [NRMS14, WLX<sup>+10</sup>]. **fennicus** [VDH19]. **feral** [AAUHW15]. **fermented** [LKS<sup>+13</sup>]. **Ferreira** [HSGD11]. **ferritin** [NRMS14]. **fibroblast** [KLW10, SSG<sup>+19</sup>, VBL<sup>+16</sup>]. **fibroblastoid** [VKK<sup>+19</sup>]. **fibroblasts** [DJQ<sup>+12</sup>]. **fibromas** [BCW<sup>+15</sup>]. **fibrosarcoma** [DD15]. **Field** [MMD16, OTN<sup>+12</sup>, BSBH10, BWP<sup>+19b</sup>, FSG<sup>+12</sup>, HH13b, HBB<sup>+15</sup>, HKB<sup>+16</sup>, JMS13, LTG<sup>+18</sup>, MRR<sup>+14</sup>, RNM<sup>+12</sup>, TAC15, WWE<sup>+13</sup>]. **field-collected** [WWE<sup>+13</sup>]. **fighting** [RhAS<sup>+15</sup>]. **filaments** [MGM<sup>+16</sup>]. **Filifolinone** [PVIM18]. **fillets** [TWNB<sup>+12</sup>, TRS19]. **Filtration** [BRL<sup>+13</sup>]. **fin** [ASSP<sup>+15</sup>, BNC<sup>+11</sup>, CLL<sup>+10</sup>, FPK<sup>+17</sup>, GGW<sup>+11</sup>, KLW10, LJC<sup>+19</sup>, MSC<sup>+17</sup>, PWYW18b, SSG<sup>+19</sup>, VBL<sup>+16</sup>, YNL11]. **fin-derived** [SSG<sup>+19</sup>]. **findings** [STS<sup>+15</sup>]. **fine** [DPC<sup>+10</sup>]. **finfish** [WBD10a]. **fingerlings** [PYSS19, SSSP18]. **fingerprinting** [CYS17]. **Finland** [IAR<sup>+10</sup>]. **Finstad** [JCN<sup>+14</sup>]. **First** [ARR<sup>+18</sup>, BLdA<sup>+18</sup>, BRMG13, BQP12, BBL<sup>+16</sup>, BMMP<sup>+14</sup>, BMA13, BVT<sup>+18</sup>, CTD<sup>+12</sup>, CWW<sup>+18</sup>, CSA<sup>+15</sup>, DML<sup>+16</sup>, EPA<sup>+10</sup>, GRB<sup>+17</sup>, GGH<sup>+10</sup>, HSC<sup>+16</sup>, HHC<sup>+18</sup>, HKF<sup>+16</sup>, IGLG<sup>+17</sup>, KMGK<sup>+18</sup>, KPK<sup>+18</sup>, KDP<sup>+17</sup>, LFSZ18, LYL<sup>+18</sup>, LL12, LPVGL<sup>+10</sup>, MdOO16, MFES18, MVWS13, MDC<sup>+18</sup>, MHNY18, MCCN14, MNM<sup>+19</sup>, OGI<sup>+18</sup>, OCLI<sup>+19</sup>, PSVK<sup>+18</sup>, RHZA<sup>+16</sup>, RBF14, RPJ<sup>+18</sup>, SPP<sup>+18</sup>, SFBW<sup>+17</sup>, SPS<sup>+17</sup>, SMV<sup>+14</sup>, SdMVS<sup>+16</sup>, SWE<sup>+19</sup>, VDD<sup>+18</sup>, WBE<sup>+17</sup>, ZxYJ<sup>+19</sup>, ZCC18, dSRSHGá<sup>+19</sup>, APP<sup>+17</sup>, GL18, GKCC<sup>+12</sup>, HST<sup>+13</sup>, JDRM17, LUP<sup>+18</sup>, TIK<sup>+14a</sup>]. **Fish** [Buc12, DPADO16, KPSP<sup>+19</sup>, Loh13, Spe19a, ADMF15, ACAS14, AJLK<sup>+18</sup>, AAUHW15, AFTEML19, AHITC18, AHAMR<sup>+19</sup>, BSD<sup>+18c</sup>, BSB<sup>+18</sup>, BKS<sup>+17</sup>, BHF13, BPMI<sup>+16</sup>, Bin14, BFJ11, BCL<sup>+19</sup>, BMBS12, BGC<sup>+17</sup>, BWNS<sup>+11</sup>, BW18, BMMP<sup>+14</sup>, BGD<sup>+17</sup>, BFPA<sup>+12</sup>, BNS13, BWM<sup>+13</sup>, BMA13, CDM<sup>+13</sup>, CHH<sup>+14</sup>, CDF<sup>+18</sup>, CMSHS16, CD17, ÇOÇ<sup>+16</sup>, CGCAH12, dSCBdS<sup>+16</sup>, Dal18, DTM<sup>+10</sup>, DBV<sup>+13</sup>, DZC<sup>+16</sup>, DMD<sup>+17</sup>, DLCF13, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DMK<sup>+19</sup>, DSJA18, EKT<sup>+11</sup>, EBM<sup>+18</sup>, ERÁpSB14, EPCSBP18, FBS13, FBAS16, FBK<sup>+16</sup>, FLVA10, FMA<sup>+19</sup>, FMB<sup>+11</sup>, FCS<sup>+18</sup>, GCNB18, GFB<sup>+13</sup>, GJK<sup>+11</sup>, GJMH17, GOM<sup>+19</sup>, GM10, GMN12, GWM12, GCGR13, GDN<sup>+16</sup>, HCCM12, HSA17, HGG<sup>+11</sup>, HY16, HGB<sup>+11</sup>, HAS<sup>+19</sup>, HWO<sup>+17</sup>, ISCF<sup>+19</sup>, JDRM17, JSJR<sup>+19</sup>, KHC<sup>+18</sup>,

KOI<sup>+14</sup>, KFK<sup>+16</sup>, KZJ<sup>+17</sup>, LFSZ18, LITCAH19b, LFH<sup>+11</sup>, LL12, LLH<sup>+14b</sup>, LHW<sup>+15a</sup>, LDEH17, LRMN17, MYWC18, MGM<sup>+18</sup>, MFHHG18, ME12, MKK<sup>+11</sup>]. **fish** [MLWC11, MR11, MJ17, MTHB13, MoSMS18, MSK<sup>+12</sup>, MMNL14, NN11, NFA15, NFF<sup>+17</sup>, NMiy14, NSC<sup>+15</sup>, NHM<sup>+10</sup>, OT12, OJRL10, PPSW19, PKPG15, PKLH19, PSCFB<sup>+18</sup>, PNBK13, PRY<sup>+18</sup>, PBW<sup>+18</sup>, RHS<sup>+12</sup>, RHST<sup>+16</sup>, RhMM<sup>+15</sup>, RhAS<sup>+15</sup>, RhMV<sup>+15</sup>, RAM<sup>+19</sup>, RRC<sup>+17</sup>, RRO<sup>+13</sup>, RAS<sup>+10</sup>, RCD<sup>+17</sup>, RHBMM13, RE14, SJDC<sup>+13</sup>, SMF<sup>+10</sup>, SSHEM11, SZM<sup>+15</sup>, SCK13, SWD<sup>+14</sup>, SMJ<sup>+14</sup>, Spe19b, SMS<sup>+18</sup>, SKB10, SKJ13, SN14, SSO<sup>+14</sup>, TIK<sup>+14a</sup>, TSS18, TWJP10, TAQ<sup>+10</sup>, TQW<sup>+14</sup>, TMWV14, VMCM14, VCR<sup>+11</sup>, VC17, VME<sup>+19</sup>, WDM<sup>+15</sup>, WMM17, WMD<sup>+18</sup>, WYZ<sup>+19</sup>, WKW13, WNCR12, ZZC<sup>+17</sup>, ZHFC11, ZGY<sup>+18</sup>, ZXW<sup>+12</sup>]. **fish-farming** [BNS13, TAQ<sup>+10</sup>]. **fish-myxozoan** [EPCSBP18]. **fish-pathogenic** [CHH<sup>+14</sup>, FLVA10]. **fish-to-fish** [HGG<sup>+11</sup>]. **fishable** [MMG<sup>+11</sup>]. **fishery** [MMG<sup>+11</sup>, TJR<sup>+18</sup>]. **fishes** [ARL<sup>+17</sup>, AAZS<sup>+15</sup>, FDL<sup>+17</sup>, KPT<sup>+11</sup>, MA16, PAZ18, RWTB17, RBR19]. **fishpathogens.eu** [MPJ<sup>+15</sup>]. **fishpathogens.eu/noda** [MPJ<sup>+15</sup>]. **five** [BOH<sup>+12</sup>, BBP18, THW<sup>+12</sup>]. **fixation** [CBLN13, CMS<sup>+17</sup>]. **fixed** [FGR<sup>+12</sup>, WWE<sup>+13</sup>]. **fixed-dose** [WWE<sup>+13</sup>]. **fjord** [KAST17, SVY<sup>+14</sup>]. **flagellar** [YK12]. **flat** [BLSG<sup>+16</sup>]. **flavescens** [KHLL16, OEG<sup>+13</sup>, PHvdH12, SGQ<sup>+15</sup>]. **Flavobacteria** [ATJS<sup>+18</sup>, LF18]. **Flavobacterium** [BBF<sup>+15</sup>, BLF<sup>+16</sup>, BMA13, BLFC12, CHV<sup>+12</sup>, CAJD<sup>+18</sup>, DBS12, DBV<sup>+13</sup>, DMP10, DJR<sup>+19</sup>, DLPR15, DSLR16, FDL<sup>+17</sup>, FNISE12, GLW<sup>+18</sup>, GCW17, GPL<sup>+12</sup>, GDW<sup>+15</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, HRNW15, JDH<sup>+18</sup>, JML19, KSS<sup>+15</sup>, LLC<sup>+11</sup>, LWWS14, LGD<sup>+17</sup>, LGS19, LFD<sup>+17</sup>, LZZN10, LLL<sup>+12</sup>, LF16, LPCC12, MBS<sup>+19a</sup>, MBOC19, NN11, NSB<sup>+18</sup>, NOV<sup>+11</sup>, OFA11, OBD<sup>+11</sup>, PDLW17, PLCC11, PFJ<sup>+10</sup>, RHB<sup>+15</sup>, SDWA18, dASLS<sup>+19</sup>, SL15, SLPB18, SEK<sup>+16</sup>, SWE<sup>+19</sup>, SBW11, SW11, TQW<sup>+14</sup>, WSA<sup>+18</sup>]. **FLIV** [JLJ16]. **Florfenicol** [DdRTM13, FHZ<sup>+16</sup>, JML19, RHTC19b, RSH11, SKGE13, YVM<sup>+14</sup>, dOAPLá<sup>+17</sup>]. **Florida** [BA13]. **flounder** [DBHC17, HKK<sup>+11b</sup>, JKC<sup>+11</sup>, JLJ16, KKK<sup>+18</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, SSJ<sup>+19</sup>, TOK<sup>+16</sup>, WWS<sup>+11</sup>]. **flow** [BRL<sup>+13</sup>, CHB<sup>+17</sup>, PSK<sup>+13</sup>, WSX<sup>+18</sup>]. **flow-through** [PSK<sup>+13</sup>]. **flower** [RHST<sup>+16</sup>, RhMM<sup>+15</sup>, RhMV<sup>+15</sup>]. **fluorescence** [AS17, DXX<sup>+15</sup>, KTK17, LGC<sup>+19</sup>]. **fluorescence-based** [AS17]. **fluorescens** [GPFAG19]. **fluoro** [SRD<sup>+16</sup>]. **fluorodeoxyglucose** [BWM<sup>+13</sup>]. **fluviautilus** [BGRB14, BGCKF12, CGP<sup>+19</sup>, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SKPS16, VPP<sup>+12</sup>]. **focal** [BHO<sup>+19</sup>]. **folifer** [BCJ13]. **follicles** [CZB<sup>+11</sup>]. **follow** [BMGS17, PPI<sup>+13</sup>]. **follow-up** [BMGS17, PPI<sup>+13</sup>]. **following** [ASSP<sup>+15</sup>, BSW17, CRS<sup>+13</sup>, ECP<sup>+10</sup>, FGJ<sup>+10</sup>, GVB<sup>+17a</sup>, GMC<sup>+16b</sup>, GBSF12, HCCM12, IPW<sup>+13</sup>, JAJC<sup>+18</sup>, LWJ<sup>+16</sup>, MBS<sup>+19a</sup>, MMG<sup>+11</sup>, PSK<sup>+12</sup>, PFC<sup>+13</sup>, TWNB<sup>+12</sup>]. **follows** [KDA<sup>+18</sup>]. **fomites** [PJL<sup>+12</sup>]. **fontinalis** [DGS<sup>+14</sup>]. **Food** [LDÁM14, SNM<sup>+16</sup>]. **foodborne** [TOK<sup>+16</sup>].

**foraging** [BND<sup>+</sup>17]. **foreign** [LL11]. **fork** [DD15]. **fork-tailed** [DD15]. **formalin** [FGR<sup>+</sup>12]. **formalin-fixed** [FGR<sup>+</sup>12]. **formation** [DSSB18, DSSB19, LFD<sup>+</sup>17, LITCAH19b, LTC17, SFR<sup>+</sup>17, SW11]. **formerly** [MJ17]. **forming** [CD17]. **formosus** [KVC<sup>+</sup>16]. **forms** [SQC<sup>+</sup>14]. **Forsskål** [DTM<sup>+</sup>10, LQY11, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, SGR<sup>+</sup>18, Wen16]. **Forster** [ABC<sup>+</sup>10, CB13]. **fortis** [WZQ<sup>+</sup>16]. **fortuitum** [PBW<sup>+</sup>18]. **fosteri** [SFF<sup>+</sup>17]. **found** [AHTCA<sup>+</sup>17]. **Fouquet** [vGJHS<sup>+</sup>11]. **four** [KKT<sup>+</sup>18a, NWMK16, XKB12]. **Fourier** [WNCR12]. **fractions** [LLC<sup>+</sup>11]. **fracture** [FvdMF<sup>+</sup>18]. **France** [BVL<sup>+</sup>18, BBL<sup>+</sup>16]. **franciscana** [TNK12, WBF<sup>+</sup>10]. **Francisella** [ATP<sup>+</sup>17, BFJ11, CDM<sup>+</sup>13, GIW<sup>+</sup>11, KBTMH<sup>+</sup>16, PLC<sup>+</sup>19b, SPKS17, SKGE13]. **francisellosis** [AdOG<sup>+</sup>17, KBTMH<sup>+</sup>16, RPMRLJ<sup>+</sup>19, RBWR<sup>+</sup>15]. **Frank** [Cip11]. **Fraser** [BLP10]. **Fredericella** [KAESM13]. **free** [HKF<sup>+</sup>16, MB17, MPJ<sup>+</sup>15, YSV<sup>+</sup>13]. **free-swimming** [HKF<sup>+</sup>16]. **freedom** [JKS<sup>+</sup>13]. **Freeman** [MRSC13]. **French** [DTM<sup>+</sup>10]. **frequency** [LRS<sup>+</sup>17]. **fresh** [JZK<sup>+</sup>14, MSR<sup>+</sup>10, NOV<sup>+</sup>11, WNGS<sup>+</sup>17]. **freshwater** [ADMF15, ACA<sup>+</sup>16, AAV<sup>+</sup>16, Ano10c, ACM<sup>+</sup>14, BAD<sup>+</sup>12, BMMP<sup>+</sup>14, CJB<sup>+</sup>15, DXX<sup>+</sup>15, FMT<sup>+</sup>14, GB18, GTT<sup>+</sup>17, GGH<sup>+</sup>10, GJMH17, JTW<sup>+</sup>10, LFSZ18, LL12, LYKN18, MRR<sup>+</sup>14, MdOO16, MSK<sup>+</sup>12, NHM<sup>+</sup>10, PPSW19, PKPG15, RNM<sup>+</sup>12, RWTB17, VPP<sup>+</sup>12, WMM<sup>+</sup>16, WOD16, WNO<sup>+</sup>18]. **freshwater-** [GTT<sup>+</sup>17]. **freshwaters** [SMJ<sup>+</sup>14]. **FRET** [SMF<sup>+</sup>10]. **frog** [DPADO16]. **Front** [MBS<sup>+</sup>19b, RHVG<sup>+</sup>19a]. **frozen** [TRS19]. **fry** [CJB<sup>+</sup>15, DSLR16, GCM<sup>+</sup>18b, HKBD15b, KEY<sup>+</sup>15, PDLW17, SCR<sup>+</sup>15, WKK12]. **FTA** [PSK<sup>+</sup>13]. **Full** [NRMS14, NDA<sup>+</sup>19]. **Full-length** [NRMS14]. **function** [BMD<sup>+</sup>14, JBG11]. **functional** [WCL<sup>+</sup>19, ZZQ<sup>+</sup>19]. **Fundy** [NRF<sup>+</sup>18]. **funebris** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **fungal** [ŘKH16]. **fungicide** [MMMD16]. **fungus** [SMFM12]. **furcatus** [LTC<sup>+</sup>14, XKBC12]. **furnieri** [MPM16]. **Further** [KWGS19]. **furunculosis** [GGH<sup>+</sup>10]. **Fusarium** [KDP<sup>+</sup>17]. **fuscoguttatus** [SSF<sup>+</sup>17, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, NDA<sup>+</sup>19, Wen16, ZDWH18]. **fusions** [DWP<sup>+</sup>19]. **future** [ZGY<sup>+</sup>18].

**g** [LSC<sup>+</sup>14, CGW<sup>+</sup>19, LZZN10]. **Gadus** [BSWS11, BMGS17, BK12, FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18, MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, ZCP12]. **Gaimard** [CCMA<sup>+</sup>17, PC17, WCW<sup>+</sup>16b]. **Galicia** [DIVC16, RAVC18]. **gamete** [LST<sup>+</sup>12]. **gametes** [KSA<sup>+</sup>10]. **GAPDH** [ZXW<sup>+</sup>12]. **gariepinus** [DAO19, HGPD11, HOHG13, LvD18, OOO<sup>+</sup>11, OAO<sup>+</sup>12, SRT<sup>+</sup>14, TMWV14]. **garlic** [MSCH14, NDA10]. **Garman** [AFA<sup>+</sup>12]. **Garra** [VME<sup>+</sup>19]. **garvieae** [ABT<sup>+</sup>14, CLT<sup>+</sup>14, DPMK12, FLC<sup>+</sup>17, HY16, PSBG<sup>+</sup>11, TAC15]. **Gas** [SBHC18, RPJ<sup>+</sup>18]. **Gasterosteus** [ASW16, PJZB19, WFH<sup>+</sup>18]. **Gastric** [LWMT10, dSdAdS<sup>+</sup>19, BB11, LL11]. **gastroenteritis** [DPTFC10, DPTCF10, RBL<sup>+</sup>11]. **gastrointestinal** [ABF15, BLFC12]. **GBS**

[BFFA<sup>+12</sup>]. **GC** [ZCJ<sup>+18</sup>]. **GC-MS-based** [ZCJ<sup>+18</sup>]. **GCRV** [ZWG<sup>+18</sup>]. **gel** [TAC15]. **Gene** [RHVG<sup>+19b</sup>, AMA11, CLWJ13, CCLL16, CGW<sup>+19</sup>, CGG<sup>+10</sup>, CKJ<sup>+14</sup>, CKTT10, dJDAVRGM<sup>+18</sup>, EDN18, FMA<sup>+19</sup>, JJS<sup>+12</sup>, LCV<sup>+17</sup>, LCC<sup>+15</sup>, LXZ<sup>+19</sup>, MPBM<sup>+16</sup>, MNG<sup>+18</sup>, NSE<sup>+17</sup>, OBR<sup>+14</sup>, QZZ<sup>+18b</sup>, RB15, RSPA<sup>+18</sup>, SWD<sup>+14</sup>, TMM<sup>+15</sup>, UKS<sup>+18</sup>, YYW<sup>+14</sup>, ZWY<sup>+11</sup>, ZZQ<sup>+19</sup>]. **gene-encoded** [CGW<sup>+19</sup>]. **generated** [SK15, SEK<sup>+16</sup>]. **Generation** [CHB<sup>+17</sup>, DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **genes** [BCLM<sup>+19</sup>, BGC<sup>+17</sup>, CIL<sup>+17</sup>, COB<sup>+16</sup>, CDG<sup>+14</sup>, FVAVMGE18, FCL<sup>+19</sup>, JKH<sup>+17</sup>, LWWS14, LZZN10, LMM<sup>+15</sup>, LMM<sup>+16</sup>, NRMS14, OJRL10, SSV<sup>+10</sup>, SJSA<sup>+14</sup>, TvWO<sup>+16</sup>, YK12]. **Genetic** [DMP10, HJT<sup>+16</sup>, KTP<sup>+15</sup>, MPBM<sup>+16</sup>, SDZN19, TOK<sup>+16</sup>, TCM<sup>+19</sup>, TWYC15, WM19, WNAF<sup>+13</sup>, WSA<sup>+18</sup>, ASB<sup>+12</sup>, BFC<sup>+15</sup>, COB<sup>+16</sup>, DZV10, DLPR15, ISCF<sup>+19</sup>, KNN19, LDEH17, NWMK16, RGMGG<sup>+18</sup>, SDWA18, SMC<sup>+11</sup>, VCS<sup>+19</sup>, VST<sup>+19</sup>, ZFZ<sup>+11</sup>]. **genetically** [JAR<sup>+11</sup>]. **genogroup** [ISCF<sup>+19</sup>]. **genogroups** [ABVS18, KWD<sup>+16</sup>]. **genome** [BFC<sup>+15</sup>, IBFL19, KKM<sup>+19</sup>, RKK<sup>+19</sup>, ZxYJ<sup>+19</sup>]. **genomes** [BHF13, YEK<sup>+17</sup>]. **Genomic** [DZC<sup>+16</sup>, RVC18, GBO<sup>+18</sup>, JGI<sup>+10</sup>, LCV<sup>+17</sup>, LLLG18, TCS19, YMH<sup>+11</sup>]. **genomovar** [BMA13, GLW<sup>+18</sup>, LWWS14, LGD<sup>+17</sup>, SL15]. **genotoxicity** [BA14]. **genotype** [Ano12c, CVLJ<sup>+10</sup>, CCW<sup>+15</sup>, CWW<sup>+18</sup>, GJVT<sup>+11</sup>, GVC<sup>+19</sup>, KF10a, KKK<sup>+18</sup>, LRD<sup>+19</sup>, MF12, VCS<sup>+19</sup>, VBL<sup>+16</sup>, WKW<sup>+11</sup>, ZWG<sup>+18</sup>]. **genotypes** [HB12, MMWK19, RPGCIG17, TDS<sup>+19</sup>, VLVS<sup>+16</sup>, VDHV<sup>+16</sup>]. **Genotypic** [DMK<sup>+19</sup>, PPSW19, WMD<sup>+18</sup>]. **genotypical** [PKPG15]. **Genotyping** [CLLF14, FSB<sup>+18c</sup>, BBC<sup>+10</sup>, FNISE12, LGS19]. **genus** [NSC<sup>+15</sup>]. **Genypterus** [IGLG<sup>+17</sup>]. **geographic** [AGFG19, GRG<sup>+16</sup>, SHO<sup>+17</sup>]. **Geographical** [GFR<sup>+12</sup>, CRS<sup>+13</sup>, DMK<sup>+19</sup>]. **geranyl** [PVIM18]. **Germany** [AHJS<sup>+18</sup>, BGRB14, KAST17]. **GFP** [RGD<sup>+12</sup>]. **GFP-labelled** [RGD<sup>+12</sup>]. **Ghanaian** [VJWC<sup>+18</sup>]. **Ghar** [YMBE13]. **giant** [BFFA<sup>+12</sup>, DCMM13, DBM<sup>+14</sup>, FMT<sup>+14</sup>, GHW<sup>+15</sup>, LYKN18]. **gibbosus** [LDEH17]. **gibel** [LJHG14, YLW<sup>+14</sup>, ZWLG10, ZYW<sup>+10</sup>]. **gibelio** [KJW<sup>+17</sup>, LJHG14, LLL<sup>+13</sup>, WXL16, YLW<sup>+14</sup>, ZWLG10]. **GICA** [LXX<sup>+17</sup>]. **gigas** [GVLE16, GCCLR<sup>+13</sup>, HPY<sup>+13</sup>]. **Gilbert** [DBHC17, WWS<sup>+11</sup>]. **Gill** [BGRB14, MRSC13, MCO11, VCLW16, WNGS<sup>+17</sup>, ACN12, AHPR<sup>+16</sup>, ABC<sup>+10</sup>, BCLM<sup>+19</sup>, BPCS19, BLP10, CONN10, DYML<sup>+18</sup>, DT16, FGR<sup>+12</sup>, GGMG18b, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, GDW<sup>+15</sup>, GFS<sup>+14</sup>, LDA<sup>+19</sup>, MLER<sup>+18</sup>, MR11, MGM<sup>+16</sup>, MCCN14, NBJ10, OSAA18, PGF<sup>+19</sup>, QPB<sup>+16</sup>, TCC10a, WNO<sup>+18</sup>]. **Gill-associated** [MCO11]. **gills** [CBLN13, FMM<sup>+19</sup>, HKBD15a, vGJHS<sup>+11</sup>, KSM<sup>+17</sup>, KVC<sup>+16</sup>, MAOS<sup>+18</sup>, WNMK<sup>+16</sup>]. **gilthead** [ACSB<sup>+19</sup>, BC11, CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME16, DPCdR14, RHVG<sup>+19b</sup>, TPD<sup>+19</sup>, LGS<sup>+14</sup>]. **ginbuna** [NSS<sup>+17</sup>]. **Ginsburg** [DSMC17, LKT<sup>+13</sup>]. **Girard** [DXX<sup>+15</sup>, PSK<sup>+12</sup>]. **GIS**

[AGFG19]. **GIT** [ABF15]. **GIV** [LCC<sup>+</sup>15]. **GIV-2L** [LCC<sup>+</sup>15]. gives [SWS<sup>+</sup>16]. gland [SBHC18]. *glanis* [MAOS<sup>+</sup>18]. glassfish [Góm12]. gleaned [MJ17]. Global [SJ11]. *globalis* [SAS<sup>+</sup>19]. glomerular [DBHC17]. *glomerulonephritis* [LWMT10]. glucan [JSAH<sup>+</sup>18, SJSA<sup>+</sup>14, UKS<sup>+</sup>18, YSHG18]. glucans [KBE<sup>+</sup>14]. glucidic [LDÁM14]. *Glugea* [ZCC18]. glutaraldehyde [MoSMS18]. glycogenation [TIK<sup>+</sup>14b]. Glycolic [ASHZ<sup>+</sup>12]. Glycophorin [AI11]. glycoprotein [QOC<sup>+</sup>16, EBM<sup>+</sup>18, HLL<sup>+</sup>12, IPW<sup>+</sup>13, MPBM<sup>+</sup>16]. glycoprotein-based [QOC<sup>+</sup>16]. glycosylation [FE11]. *Gnathia* [HSGD11]. gnotobiotic [RGD<sup>+</sup>12]. gnotobiologically [WBF<sup>+</sup>10]. goby [GFB<sup>+</sup>19, WZL<sup>+</sup>11]. goes [BSW17]. gold [KVC<sup>+</sup>16, LXX<sup>+</sup>17, SSHEM11]. golden [AZSI<sup>+</sup>12, CWL<sup>+</sup>17, HBB14, KHC<sup>+</sup>18, LYL<sup>+</sup>18, SM14, SWD<sup>+</sup>14]. goldfish [AHJS<sup>+</sup>18, BSK<sup>+</sup>10, BBL<sup>+</sup>16, GAEK<sup>+</sup>14, LCR<sup>+</sup>10, RMAM12, WIC<sup>+</sup>19, YNL11]. goldlined [SGR<sup>+</sup>18]. goldring [WA14]. goldsinny [BT14]. goldsmidi [ABC<sup>+</sup>10]. gonads [VMCM14]. *gondii* [SZM<sup>+</sup>15]. Goode [CHF<sup>+</sup>12]. *Gorbunova* [ME12]. *gorbuscha* [BPPKJ10, SMJ<sup>+</sup>12]. gourami [RWTB17]. *Gouussia* [dSdAdS<sup>+</sup>19]. governs [FE11]. *gracilis* [YSHG18]. grade [VPCM19]. gradient [DLCC<sup>+</sup>13]. Gram [BHA<sup>+</sup>11, THW<sup>+</sup>12]. Gram-negative [THW<sup>+</sup>12]. Gram-positive [BHA<sup>+</sup>11]. granular [RVC18]. granulation [HSHC<sup>+</sup>16]. granulomas [AJLC<sup>+</sup>16, JK12, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. Granulomatous [MTLP<sup>+</sup>18b, VPS<sup>+</sup>14, CPP14, NHM<sup>+</sup>10, dSRSHGá<sup>+</sup>19]. grass [GCWB11, LLL<sup>+</sup>12, LXHL11, WCR<sup>+</sup>18, YYW<sup>+</sup>14, ZWG<sup>+</sup>18]. Great [FDL<sup>+</sup>17, KF10b, GMP<sup>+</sup>11, RBF14, EKED<sup>+</sup>17, KF10a, OEG<sup>+</sup>13, WKW<sup>+</sup>11]. greater [MKH<sup>+</sup>11, dSRSHGá<sup>+</sup>19]. Greek [BCL<sup>+</sup>19]. Green [TCFáS19, BCG<sup>+</sup>17, KTK17]. Grenada [HHM<sup>+</sup>14]. grey [BK12, PMBM13]. GroEL [KREM14]. gross [DPTCF10, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b]. grounds [BK12]. group [BVL<sup>+</sup>18, CDD<sup>+</sup>18, EMA17, GAC10, VBL<sup>+</sup>15]. grouper [BFFA<sup>+</sup>12, CBH<sup>+</sup>15, CCLL16, CGG<sup>+</sup>10, DDBC<sup>+</sup>15, FHZ<sup>+</sup>16, GHH<sup>+</sup>11, GHW<sup>+</sup>15, HLC<sup>+</sup>15, HHX<sup>+</sup>15, KKK<sup>+</sup>18, LCC<sup>+</sup>15, LSC<sup>+</sup>14, LSA<sup>+</sup>15, MRN<sup>+</sup>19, MSI<sup>+</sup>15, NNC<sup>+</sup>18, NDA<sup>+</sup>19, OTN<sup>+</sup>12, OKS<sup>+</sup>13, PMP<sup>+</sup>18, RBS<sup>+</sup>16, RSF<sup>+</sup>17, Wen16, WCL<sup>+</sup>12, XJL<sup>+</sup>19, YLX<sup>+</sup>19b, ZLN<sup>+</sup>17, ZDWH18]. groupers [KCD<sup>+</sup>14, LXL<sup>+</sup>18, SSF<sup>+</sup>17, XLZ<sup>+</sup>17]. groups [RB15]. grow [KDA<sup>+</sup>18]. grow-out [KDA<sup>+</sup>18]. grown [WBF<sup>+</sup>10]. Growth [MB17, NN11, ACA<sup>+</sup>16, CAS<sup>+</sup>18, CDG<sup>+</sup>14, DSSB18, DSSB19, GBO<sup>+</sup>18, HMP<sup>+</sup>12, LKS<sup>+</sup>13, LWZ<sup>+</sup>18, MLWC11, MPS<sup>+</sup>18, OLT<sup>+</sup>10, PMW<sup>+</sup>10, PMH<sup>+</sup>11, RHB<sup>+</sup>15, STF<sup>+</sup>15, SLPB18, SFU<sup>+</sup>13, VDHV<sup>+</sup>16, WKW13]. grunter [KRD<sup>+</sup>17, LLH<sup>+</sup>14b]. *guamaensis* [dSdAdS<sup>+</sup>19]. Guangxi [LYL<sup>+</sup>18]. *Gubanov* [CIA<sup>+</sup>18]. gudgeon [MKK<sup>+</sup>11]. gueldenstaedtii [RFA<sup>+</sup>14]. Guichenot [IGLG<sup>+</sup>17]. guidelines [HHO14, LTM<sup>+</sup>19]. Guilford [SGQ<sup>+</sup>15]. guitarfish [AFA<sup>+</sup>12]. Guitart [ABM<sup>+</sup>15]. Gulf [BB11, DBHC17, GCCLRP<sup>+</sup>13, PJZB19]. Günther [Dig13, Dig15, IOO15, Pol15, RBF14, SRT<sup>+</sup>14, XJL<sup>+</sup>15, YCNW18, ZQB<sup>+</sup>11]. guppies [BCM<sup>+</sup>17, LCOZ10]. guppy [SPLV<sup>+</sup>15]. Gut

[JKL<sup>+13</sup>, DCZ<sup>+17</sup>, RBL<sup>+11</sup>]. **guttulatus** [BQP12]. **Gymnocephalus** [MGM<sup>+16</sup>]. **Gymnocorymbus** [SHAM14]. **Gymnothorax** [BCG<sup>+17</sup>, CHF<sup>+12</sup>]. **Gymnotus** [DMD<sup>+17</sup>, VMCM14]. **Gymnura** [BCJ13]. **gyrA** [HBB<sup>+15</sup>]. **gyrodactylid** [YEK<sup>+17</sup>]. **Gyrodactylus** [GAC10, HHO14, HKG<sup>+15</sup>, KHG<sup>+17</sup>, LP17, PHVM13, PB18, WKK12, YEK<sup>+17</sup>].

**H** [ZB12]. **H.** [NRMS14]. **H6** [AJLK<sup>+18</sup>]. **Haan** [ZSF16]. **habitats** [OMO<sup>+15</sup>, YkSKY13, ZYW<sup>+10</sup>]. **haddock** [JHM<sup>+18</sup>]. **haem** [OJRL10]. **haemal** [FvdMF<sup>+18</sup>]. **haemangioma** [SMD<sup>+12</sup>]. **Haematological** [KPM<sup>+11</sup>]. **Haematopoietic** [LLL<sup>+13</sup>, ASHZ<sup>+12</sup>, EBM<sup>+18</sup>, JSK<sup>+10</sup>, MNM<sup>+19</sup>, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, SJDC<sup>+13</sup>, YHY<sup>+16</sup>]. **haemic** [MMMD16, MMD16]. **haemocyte** [TDLT<sup>+16</sup>, TDT<sup>+16</sup>]. **haemocytes** [FBVC16]. **haemoglobin** [UN10]. **Haemogregarinidae** [MdOO16]. **haemolysin** [DJQ<sup>+12</sup>]. **haemolytic** [MFS<sup>+17</sup>, OAO<sup>+12</sup>]. **haemorrhage** [PWV19]. **haemorrhagic** [AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, Ano12c, DPADO16, EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GGW<sup>+11</sup>, GVC<sup>+19</sup>, HLL<sup>+12</sup>, HGG<sup>+11</sup>, HPAL10, JKS<sup>+13</sup>, KKK15, KF10a, KF10b, LVADB17, MMBS10, MF12, MMW<sup>+15</sup>, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJL<sup>+12</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SJ11, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WDM<sup>+15</sup>, WKW<sup>+11</sup>, ZLX<sup>+19</sup>]. **Hafnia** [OSC<sup>+14</sup>]. **half** [XJL<sup>+15</sup>]. **half-smooth** [XJL<sup>+15</sup>]. **halibut** [BBP18, ONA10, RSH11]. **Halieutaea** [LZGZ16]. **Halocynthia** [KOS<sup>+10</sup>, PZL<sup>+14</sup>]. **Hamilton** [Bin14, CXK16, Góm12, KWGS19, KREM14, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MLR<sup>+12</sup>, SMD<sup>+12</sup>, SM14, WCL<sup>+12</sup>]. **Hamilton-Buchanan** [Bin14, CXK16]. **hand** [SWS<sup>+16</sup>]. **handling** [GAVC16, KZJ<sup>+17</sup>]. **handy** [MPJ<sup>+15</sup>]. **haptor** [TGJCH15]. **harengus** [GJVT<sup>+11</sup>, MMBS10]. **Harry** [LFSZ18]. **harveyi** [DJQ<sup>+12</sup>, HBVB16, MKMY10, NNC<sup>+18</sup>, QWTL17, SSF<sup>+17</sup>, SNM<sup>+16</sup>, ZWY<sup>+11</sup>, ZDWH18]. **hatch** [DPD<sup>+18</sup>]. **hatched** [SBM<sup>+11</sup>]. **hatcheries** [TES16]. **hatchery** [AZSSZZ13, BRMG13, CONN10, DABO<sup>+17</sup>, FBS13, KDA<sup>+18</sup>, LF18, PDdC<sup>+14</sup>, SBP<sup>+19</sup>, WBE<sup>+17</sup>, XLZ<sup>+17</sup>]. **hatchery-bred** [XLZ<sup>+17</sup>]. **hatchery-incubated** [LF18]. **hatchery-reared** [BRMG13, CONN10, SBP<sup>+19</sup>, WBE<sup>+17</sup>]. **hatching** [VCLW16]. **Hawaiian** [WA14]. **Haworth** [BAH<sup>+16</sup>]. **Hb** [UN10]. **head** [AFTEML19, CWW<sup>+18</sup>, CHAB10, CSCCA14, Lek12, LRD<sup>+19</sup>, NNCLGC<sup>+11</sup>, STG<sup>+10</sup>]. **head-kidney** [CSCCA14]. **healing** [SSG<sup>+19</sup>]. **health** [BMGS17, HBB14, OT12, RAS<sup>+10</sup>, TMWV14]. **healthy** [AI11, DPTFC10, GCCLRP<sup>+13</sup>, HOHG13, KSM<sup>+17</sup>, OSC<sup>+14</sup>, TWNB<sup>+12</sup>]. **heart** [FMH<sup>+15</sup>, GRT12, GHW<sup>+15</sup>, WHR<sup>+18</sup>]. **hearti** [YLW<sup>+14</sup>]. **hearts** [BOH<sup>+12</sup>]. **Heat** [LRC<sup>+18</sup>, RAS<sup>+10</sup>, DJQ<sup>+12</sup>, MWRSK17, SNM<sup>+16</sup>, WBF<sup>+10</sup>, ZWY<sup>+11</sup>]. **Heat-inactivated** [LRC<sup>+18</sup>]. **heat-shock** [SNM<sup>+16</sup>, ZWY<sup>+11</sup>]. **heavily** [JMHK18]. **heavy** [QWTL17, QZZ<sup>+18b</sup>]. **Heckel** [AFTEML19, VME<sup>+19</sup>]. **held** [KJB11, Sam10, WNGS<sup>+17</sup>]. **helminth** [BGD<sup>+17</sup>, ZPM<sup>+18</sup>]. **helminth-infected** [ZPM<sup>+18</sup>]. **helminths** [DPC<sup>+10</sup>, DCG18]. **hematopoietic** [CGW<sup>+19</sup>, HSC<sup>+16</sup>, KWD<sup>+16</sup>, LGJ19, MBOC19].

**Hemiarius** [DD15]. **Hemigrammus** [ŘKH18]. **Hemigymnus** [HSGD11]. **Hemilepidotus** [GM11]. **Hemiscyllum** [JK12]. **hemocytes** [HGW<sup>+</sup>19]. **Henle** [CDM<sup>+</sup>16]. **Henneguya** [RKPG16]. **henneguyosis** [RKPG16]. **hepatic** [BSV<sup>+</sup>18, LvD18, SMJ<sup>+</sup>12]. **hepatitis** [FKB<sup>+</sup>14, KAS<sup>+</sup>18]. **hepatoblastoma** [SCZM19]. **hepatocellular** [TIK<sup>+</sup>14b]. **hepatocytes** [TIK<sup>+</sup>14b]. **hepatopancreas** [CMEV17a, CMS<sup>+</sup>17, CMEV17b]. **hepatopancreatic** [BPK<sup>+</sup>17, CCLGRM<sup>+</sup>17, DD18, DML<sup>+</sup>16, KTN<sup>+</sup>16, KYB<sup>+</sup>15, MRR<sup>+</sup>14, NPGA<sup>+</sup>19, YTL10]. **hepatopenaei** [KS19, SSV<sup>+</sup>17, TSK<sup>+</sup>19]. **Hepatospora** [DCL<sup>+</sup>17]. **herbarum** [dSRSHGá<sup>+</sup>19]. **Herbst** [MRR<sup>+</sup>14, RNM<sup>+</sup>12]. **heritage** [GVLE16]. **herpes** [SGB<sup>+</sup>16, SEM18]. **herpesviral** [LGK<sup>+</sup>14]. **Herpesvirus** [BBL<sup>+</sup>16, ASB<sup>+</sup>12, BSK<sup>+</sup>10, BMK17, BVL<sup>+</sup>18, CLC<sup>+</sup>17, CCW<sup>+</sup>15, CCT<sup>+</sup>11, DKBS17, EYF<sup>+</sup>19, FBS13, FBAS16, FCC<sup>+</sup>13, FSC<sup>+</sup>16, GVLE16, GSEM13, GAEK<sup>+</sup>14, HDC18, HPY<sup>+</sup>13, IFF<sup>+</sup>15, KYK<sup>+</sup>12, KK0Y19, KJW<sup>+</sup>17, KAST17, LLL<sup>+</sup>13, MLH<sup>+</sup>15, MSS<sup>+</sup>17a, MKY<sup>+</sup>15, MTA<sup>+</sup>15, MTAB15, MBT<sup>+</sup>17, NSS<sup>+</sup>17, PTM<sup>+</sup>19, PFP<sup>+</sup>13, RHZA<sup>+</sup>16, RBH<sup>+</sup>17, SMC<sup>+</sup>11, TDJ<sup>+</sup>10, TWJP10, TKS<sup>+</sup>18, WXL16, WSX<sup>+</sup>18, WIC<sup>+</sup>19, YkSKY13, vBVLR<sup>+</sup>16, MFES18, NJK<sup>+</sup>17, GM10]. **herpesvirus-1** [KYK<sup>+</sup>12, MFES18]. **herpesvirus-2** [NSS<sup>+</sup>17, GM10]. **herpesvirus-3** [GAEK<sup>+</sup>14, MKY<sup>+</sup>15]. **herring** [GJVT<sup>+</sup>11, GGW<sup>+</sup>11, HLL<sup>+</sup>12, HCEH16, HGH<sup>+</sup>16, MMBS10, WKW<sup>+</sup>11]. **Heterogeneity** [BGCKF12, LWWS14]. **heterologous** [MBS<sup>+</sup>19a, SLKE10]. **heterophil** [RSR<sup>+</sup>18]. **Heterophyidae** [BCM<sup>+</sup>17]. **Heterosporis** [KSAB<sup>+</sup>14]. **Hetrick** [Cip11]. **Hexacanalis** [BCJ13]. **Hexamitiasis** [OP14]. **Hfq** [MFHHG18]. **Hfq-sRNA-chaperone** [MFHHG18]. **HI** [RGD<sup>+</sup>12]. **HI-610** [RGD<sup>+</sup>12]. **hidden** [RBR19]. **High** [KKK<sup>+</sup>18, RNM<sup>+</sup>12, TCFáS19, BHT<sup>+</sup>17, BLF<sup>+</sup>16, BCBS<sup>+</sup>13, DAB<sup>+</sup>12, HGH<sup>+</sup>18, HMW11, LITCAH19b, LZZN10, NFF<sup>+</sup>17, OFA11, VCN<sup>+</sup>10, VPCM19, WMD<sup>+</sup>18, WZA10, WKW<sup>+</sup>11, ZDWH18]. **high-** [BLF<sup>+</sup>16, WZA10]. **high-grade** [VPCM19]. **High-throughput** [TCFáS19, BHT<sup>+</sup>17, LITCAH19b]. **higher** [FHFF15]. **highly** [GCNB18, KF10b, LQL<sup>+</sup>10, MAC<sup>+</sup>15, YGL<sup>+</sup>18]. **Hilgendorf** [HKK<sup>+</sup>11a]. **Hippocampus** [BQP12, BCW<sup>+</sup>15, DCV<sup>+</sup>14, DSMC17, LYD<sup>+</sup>15, LKT<sup>+</sup>13, OBR<sup>+</sup>14, QWTL17, SBHC18, WZQ<sup>+</sup>16]. **Hippoglossus** [BBP18, ONA10, RSH11]. **hirame** [BMMP<sup>+</sup>14, HMP<sup>+</sup>12, SDJH16, YMH<sup>+</sup>11]. **histidine** [FMA<sup>+</sup>19, SFR<sup>+</sup>17]. **Histochemical** [BDM<sup>+</sup>18, DMD<sup>+</sup>17]. **histochemistry** [DPC<sup>+</sup>10, MBD16]. **Histocompatibility** [PdLC19, CPB<sup>+</sup>15]. **histologic** [CSA<sup>+</sup>15]. **Histological** [ADR11, GFM<sup>+</sup>16, GóM12, LTC<sup>+</sup>14, BCBS<sup>+</sup>13, DPTCF10, HKF<sup>+</sup>16, PPK<sup>+</sup>13, PMBM13, RAM<sup>+</sup>17, SVV<sup>+</sup>17, TPD<sup>+</sup>19]. **Histology** [ECP<sup>+</sup>10, LvD18, CMEV17b, JBO<sup>+</sup>15]. **Histone** [WCL<sup>+</sup>19]. **Histone-like** [WCL<sup>+</sup>19]. **Histopathological** [DCG18, DAO19, MKMY10, MAOS<sup>+</sup>18, STS<sup>+</sup>15, ABT<sup>+</sup>14, MCSM17, MPM16, NB10, PMP<sup>+</sup>18, QXW14, RHZA<sup>+</sup>16, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b].

### Histopathology

[JMHK18, ONA10, TGJCH15, ATM<sup>+</sup>10, MBD16, SDZN19, YLW<sup>+</sup>14]. **historical** [WMM17]. **history** [ARFG13]. **histrix** [MdOO16]. **HN48** [LLL<sup>+</sup>18a]. **Hofer** [MKKM15]. **Hoffman** [LRB<sup>+</sup>17]. **Holbrook** [ALG15]. **Hole** [AFTEML19]. **Hole-in-the-head** [AFTEML19]. **Holmberg** [VGI<sup>+</sup>16]. **Holmes** [SPTDEE<sup>+</sup>15]. **Holocene** [ARL<sup>+</sup>17]. **Holocephali** [DRdS<sup>+</sup>10]. **Homarus** [CG11, SQC<sup>+</sup>14]. **homeostasis** [TvWO<sup>+</sup>16]. **homogenate** [SG12]. **homogeneity** [COB<sup>+</sup>16]. **hook** [ABM<sup>+</sup>15]. **hooking** [DLLB<sup>+</sup>18]. **Horizontal** [NRF<sup>+</sup>18, KS19, SHV<sup>+</sup>16]. **horizontally** [WNGS<sup>+</sup>17]. **hormonal** [GFM<sup>+</sup>16]. **hormones** [DSSB19]. **horn** [RHST<sup>+</sup>16, RhMM<sup>+</sup>15, RhMV<sup>+</sup>15]. **horse** [BCW<sup>+</sup>15, ONGQ<sup>+</sup>14, RGMGG<sup>+</sup>18]. **Host** [ADMF15, ABC<sup>+</sup>10, JFWH19, BCJ13, BLP10, EPCS18, FSB18a, FYO<sup>+</sup>11, GSEM13, GAEK<sup>+</sup>14, GGGM14, IBFL19, JPG<sup>+</sup>19, KOB<sup>+</sup>17, KF10a, LHW<sup>+</sup>15a, LRB<sup>+</sup>17, MMS<sup>+</sup>16, MWS17, OWM<sup>+</sup>17, PJZB19, RGD<sup>+</sup>12, SPP<sup>+</sup>18, SPTDEE<sup>+</sup>15, SP15]. **host-associated** [KOB<sup>+</sup>17]. **host-related** [FSB18a]. **host-seeking** [OWM<sup>+</sup>17]. **Hosts** [SMKBP17, GRG<sup>+</sup>16, HB12, KHG<sup>+</sup>17, MLH<sup>+</sup>15, ZYW<sup>+</sup>10]. **hounds** [MS16]. **hoyamushi** [PZL<sup>+</sup>14]. **HPR0** [GL18]. **HPV** [YTL10]. **Hsieh** [SS17]. **HSP70** [PHW<sup>+</sup>16, SRB12]. **human** [VME<sup>+</sup>19]. **humic** [YFA<sup>+</sup>17]. **humic-rich** [YFA<sup>+</sup>17]. **humoral** [CRS<sup>+</sup>13]. **humphead** [HCW<sup>+</sup>16, ZWY<sup>+</sup>11]. **Hungary** [ABVS18, KPKP10]. **Huso** [RHSM<sup>+</sup>18b]. **hutCD** [OJRL10]. **hybrid** [AZSSZZ13, BVG<sup>+</sup>10, FCS<sup>+</sup>18, ISCF<sup>+</sup>19, LTC<sup>+</sup>14, RHST<sup>+</sup>16, RHSM<sup>+</sup>18b, RhMM<sup>+</sup>15, RhMV<sup>+</sup>15, SSF<sup>+</sup>17, SL15, SRT<sup>+</sup>14, ZDWH18]. **hybridization** [ACSB<sup>+</sup>19, CPEH15, DXX<sup>+</sup>15, DCL<sup>+</sup>17, LZZN10, MTA<sup>+</sup>15]. **hybrids** [BSK<sup>+</sup>10, KHG<sup>+</sup>17]. **hydrodomous** [MRR<sup>+</sup>14, RNM<sup>+</sup>12]. **Hydrogen** [FVAVMGE18, ACN12, HKBD15a, HKBD15b, MGM<sup>+</sup>18]. **hydrolysates** [SJDC<sup>+</sup>13]. **hydropophila** [AA10, BLFRCQ10, BE19, ÇOÇ<sup>+</sup>16, CTK<sup>+</sup>10, DBS12, EDP<sup>+</sup>17, JAR<sup>+</sup>11, JSAH<sup>+</sup>18, KEY<sup>+</sup>15, LPA<sup>+</sup>10, LLZW14, LCR<sup>+</sup>10, LHW<sup>+</sup>15b, NDA10, OSAA18, SJSA<sup>+</sup>14, WMD<sup>+</sup>18, WYZ<sup>+</sup>19, YK12, ZCJ<sup>+</sup>18]. **hydroxybutyrate** [HBH<sup>+</sup>19, SCS<sup>+</sup>12]. **hymenocallidicola** [ŘKH18]. **Hypanus** [SCZM19]. **hyperinflation** [BCG<sup>+</sup>17]. **hyperlipidaemia** [CHF<sup>+</sup>12]. **hyperplasia** [ONA10]. **hyperplastic** [BHW<sup>+</sup>11]. **hyperthermia** [WXWD15]. **hyphal** [VDHV<sup>+</sup>16]. **Hypheobrycon** [Lek12]. **hypochlorite** [HHO14]. **hypodermal** [YHY<sup>+</sup>16]. **hypophthalmus** [BAD<sup>+</sup>12, CTK<sup>+</sup>10, SMV<sup>+</sup>14, SZSFN<sup>+</sup>14, SPV<sup>+</sup>18, VST<sup>+</sup>19]. **hypoxic** [EMA17]. **Hysterothylacium** [MGH<sup>+</sup>14, RGMGG<sup>+</sup>18]. **hystrix** [SBK<sup>+</sup>13]. **I-based** [TCFÁS19]. **ice** [DJR<sup>+</sup>19]. **ice-structuring** [DJR<sup>+</sup>19]. **Iceland** [GVC<sup>+</sup>19, áKÁGA16]. **Ichthyobacterium** [MFS<sup>+</sup>17]. **Ichthyobodo** [CKJ<sup>+</sup>14, MUM<sup>+</sup>19]. **ichthyoenteri** [BT14]. **ichthyofauna** [RAM<sup>+</sup>18]. **ichthyophoniasis** [HCEH16]. **Ichthyophonus**

[AJLC<sup>+16</sup>, CPEH15, HGH<sup>+16</sup>, WMF14]. **Ichthyophonus-induced** [AJLC<sup>+16</sup>]. **Ichthyophonus-infected** [WMF14]. **ichthyophthiriasis** [AMRHM18, VGI<sup>+16</sup>]. **Ichthyophthirius** [AJLK<sup>+18</sup>, AMRHM18, BSD<sup>+18a</sup>, CKvGJB17, vGJHS<sup>+11</sup>, vGJKR<sup>+17</sup>, XKBC12, XZZ16, YYW<sup>+14</sup>]. **IcHV** [GM10]. **IcHV-2** [GM10]. **icmF** [WYZ<sup>+19</sup>]. **ictaluri** [BAD<sup>+12</sup>, CTK<sup>+10</sup>, GRG<sup>+16</sup>, KMGK<sup>+18</sup>, PRWG17, PRSK10, PMK12, SRT<sup>+14</sup>, VST<sup>+19</sup>, YK13]. **Ictalurid** [GM10]. **Ictalurus** [BBF<sup>+15</sup>, LTC<sup>+14</sup>, MP18, PRSK10, RKPG16, XKBC12, YSK13, YK13]. **idella** [GCWB11, LLL<sup>+12</sup>, YYW<sup>+14</sup>]. **idellus** [LXHL11]. **identical** [MNM<sup>+18</sup>]. **Identification** [BGC<sup>+17</sup>, CHH<sup>+14</sup>, CCW<sup>+15</sup>, CXW<sup>+19</sup>, CHF<sup>+12</sup>, DBM<sup>+14</sup>, HXZ<sup>+16</sup>, HHX<sup>+15</sup>, LLC<sup>+11</sup>, LCV<sup>+17</sup>, LCC<sup>+15</sup>, LLL<sup>+12</sup>, LMM<sup>+16</sup>, MFHHG18, PKLH19, PSBG<sup>+11</sup>, SRSF10, TCS19, WCL<sup>+19</sup>, WNCR12, YGL<sup>+18</sup>, ZWG<sup>+17</sup>, ZWL<sup>+16</sup>, BLL<sup>+17</sup>, dJDAVRGM<sup>+18</sup>, GLW<sup>+18</sup>, IGLG<sup>+17</sup>, JSJR<sup>+18</sup>, KPSP<sup>+19</sup>, LDA<sup>+19</sup>, LML<sup>+13</sup>, LYL<sup>+18</sup>, LFH<sup>+11</sup>, OBR<sup>+14</sup>, OGI<sup>+18</sup>, PSCFB<sup>+18</sup>, SSF<sup>+17</sup>, SMC<sup>+11</sup>, TCFáS19, ZSF16, ZLX<sup>+19</sup>, ZFZ<sup>+11</sup>]. **identifies** [GSEM13, GLK<sup>+16</sup>, LSA<sup>+15</sup>, WDM<sup>+15</sup>, WMM<sup>+16</sup>]. **identifying** [BTN<sup>+18</sup>, JSJR<sup>+19</sup>]. **identity** [LDEH17]. **iELISA** [ZWG<sup>+18</sup>]. **IgD** [AJLC<sup>+16</sup>]. **IgD-** [AJLC<sup>+16</sup>]. **IgM** [AJLC<sup>+16</sup>, vGJHS<sup>+11</sup>]. **IgM-positive** [AJLC<sup>+16</sup>]. **IgT** [AJLC<sup>+16</sup>, vGJHS<sup>+11</sup>]. **IgT-** [AJLC<sup>+16</sup>]. **IgY** [NPGA<sup>+19</sup>]. **IHHNV** [YHY<sup>+16</sup>]. **IHN** [HAS<sup>+19</sup>]. **IHN** [CGW<sup>+19</sup>, HSC<sup>+16</sup>, JSK<sup>+10</sup>, PMH<sup>+11</sup>, PFJ<sup>+10</sup>]. **II** [BMA13, CPB<sup>+15</sup>, GJVT<sup>+11</sup>, LLZW14, PMH<sup>+11</sup>, YYW<sup>+14</sup>, ZWG<sup>+18</sup>]. **II-DAB** [YYW<sup>+14</sup>]. **III** [EAN<sup>+18</sup>]. **IIIA** [SWWN<sup>+16</sup>]. **illegally** [ARFG13]. **Image** [ESV<sup>+19a</sup>, FSB18b, GGMG18a, GCM<sup>+18a</sup>, LITCAH19a, LLL<sup>+18b</sup>, MTLP<sup>+18a</sup>, PWPHW18a, PLC<sup>+19a</sup>, QZZ<sup>+18a</sup>, VSDS<sup>+19b</sup>, CMEV17a, CMS<sup>+17</sup>, CMEV17b]. **imaging** [BKD17, BWM<sup>+13</sup>, FDST16, RHSM<sup>+18b</sup>, RHSM<sup>+18a</sup>]. **imbalance** [AFTEML19]. **Immersion** [MAC<sup>+15</sup>, GOM<sup>+19</sup>, JAJC<sup>+18</sup>, MBS<sup>+19a</sup>, MRN<sup>+19</sup>, MSCH14, PBM<sup>+15</sup>, SPLV<sup>+15</sup>, SCR<sup>+15</sup>, TTL<sup>+16</sup>]. **immersion-bath** [SCR<sup>+15</sup>]. **Immune** [HZX<sup>+13</sup>, LHW<sup>+12</sup>, TMM<sup>+15</sup>, AJLC<sup>+16</sup>, BSD<sup>+18b</sup>, BSB<sup>+18</sup>, BAMYAH19, Buc12, CLGP15, CCHL13, CKvGJB17, CCME16, CRS<sup>+13</sup>, CSCCA14, DMB<sup>+16</sup>, HKBD15b, HXZ<sup>+16</sup>, HMW11, JAJC<sup>+18</sup>, JMF<sup>+18</sup>, JKH<sup>+17</sup>, vGJKR<sup>+17</sup>, JJS<sup>+12</sup>, LMC<sup>+16</sup>, LSC<sup>+14</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, LHW<sup>+15b</sup>, NNC<sup>+18</sup>, PHW<sup>+16</sup>, RSB13, RBAT<sup>+17</sup>, RCGGM15, RSPA<sup>+18</sup>, SWD<sup>+14</sup>, XKB12, ZWL<sup>+14</sup>]. **immune-related** [JJS<sup>+12</sup>]. **immune-relevant** [SWD<sup>+14</sup>]. **Immunity** [CGW<sup>+19</sup>, CR12, JJV<sup>+15</sup>, LKS<sup>+13</sup>, SWM<sup>+15</sup>]. **Immunization** [PLCC11, OTN<sup>+12</sup>]. **immunizes** [NPGA<sup>+19</sup>]. **immunoassay** [PSK<sup>+13</sup>, SSHEM11]. **immunoblotting** [LLL<sup>+12</sup>]. **immunochemical** [LXX<sup>+17</sup>]. **immunocytochemistry** [ECP<sup>+10</sup>]. **immunoenzymatic** [NOST<sup>+16</sup>]. **immunogenic** [KREM14, LLC<sup>+11</sup>, LLL<sup>+12</sup>, NMiy14]. **immunoglobulin** [ESV<sup>+19b</sup>, LSA<sup>+15</sup>, NPGA<sup>+19</sup>]. **Immunohistochemical**

[ERÁpSB14, FBL<sup>+</sup>14, YDO<sup>+</sup>16, ZHFC11, AOA13, ABT<sup>+</sup>14, BDM<sup>+</sup>18, CKJ<sup>+</sup>14, RHSM<sup>+</sup>18a, RAM<sup>+</sup>17, SMS<sup>+</sup>19]. **immunohistochemistry** [GCM<sup>+</sup>18b, MBD16]. **immunological** [EAM<sup>+</sup>13, FMT<sup>+</sup>14, SPCR<sup>+</sup>19, SSSP18, WCW16a, YSHG18]. **Immunomodulatory** [ESA<sup>+</sup>10, WXWD15]. **Immunophysiology** [SAD<sup>+</sup>12]. **immunoproteomic** [CRBLC<sup>+</sup>17]. **immunosorbent** [BWZ<sup>+</sup>17, NM1Y14]. **immunostimulants** [NFA15]. **Immunostimulation** [IPW<sup>+</sup>13]. **immunostimulatory** [PPI<sup>+</sup>13]. **Impact** [AJLK<sup>+</sup>18, BPK<sup>+</sup>17, DD18, JCN<sup>+</sup>13, JCN<sup>+</sup>14, STG<sup>+</sup>10, SFU<sup>+</sup>13, DTF<sup>+</sup>16, GMC<sup>+</sup>16b, STES14, SSL18, TJA<sup>+</sup>13, KRFT14]. **Impacts** [BA14, BGRB14]. **impair** [RHB<sup>+</sup>15]. **Impairment** [BSV<sup>+</sup>18]. **impairs** [LP17]. **impedes** [BMD<sup>+</sup>14]. **implementation** [BMBS12]. **implicated** [BHF13]. **Implications** [DMK<sup>+</sup>19, RBL<sup>+</sup>11, SSK17]. **importance** [KPSP<sup>+</sup>19, KNN19]. **important** [DS10, WLX<sup>+</sup>10]. **Imported** [RHBMM13, GJK<sup>+</sup>11, NSC<sup>+</sup>15, PRWG17, RKK<sup>+</sup>19, SBD11]. **imports** [WTM14]. **impoundments** [HWO<sup>+</sup>17]. **improved** [GCM<sup>+</sup>18b, SKN<sup>+</sup>16, VST<sup>+</sup>19]. **Improvement** [HAS<sup>+</sup>19, TJR<sup>+</sup>18]. **improves** [DMB<sup>+</sup>19, FMM<sup>+</sup>19]. **in-vitro** [SHS14]. **Inactivated** [WHR<sup>+</sup>18, LRC<sup>+</sup>18, MMNL14, RPMRLJ<sup>+</sup>19, SGB<sup>+</sup>16]. **Inactivation** [YkSKY13, DSA<sup>+</sup>12, DAB<sup>+</sup>12, HPAL10, MoSMS18, NCNB18]. **inaequilibriatus** [DMD<sup>+</sup>17]. **Incidence** [NB11]. **including** [SFF<sup>+</sup>17]. **inclusion** [PFC<sup>+</sup>13]. **Incomati** [DAO19]. **increase** [FMH<sup>+</sup>15, SJK<sup>+</sup>14]. **Increased** [DMB<sup>+</sup>19, CKTT10, FHFF15, NYRS12, OBFR12]. **increases** [CCHL13]. **Increasing** [FCJH19, USM17]. **incubated** [LF18]. **incubation** [FFP<sup>+</sup>14, FHFF15, SK15]. **independent** [Sla14]. **India** [GJM<sup>+</sup>15, GMP<sup>+</sup>11, HMV<sup>+</sup>17, RDN<sup>+</sup>12, SPP<sup>+</sup>18, SSV<sup>+</sup>17, SM14, TSK<sup>+</sup>19]. **Indian** [BNC<sup>+</sup>11, Góm12, GMP<sup>+</sup>11, JGI<sup>+</sup>10, NRMS14, SVM<sup>+</sup>18]. **indica** [AA10]. **indicate** [CKJ<sup>+</sup>14, KZJ<sup>+</sup>17]. **indicates** [MMBS10]. **Indications** [JNS<sup>+</sup>19]. **indicators** [PSZ<sup>+</sup>14]. **indices** [KPM<sup>+</sup>11, LFP<sup>+</sup>11a, LFP<sup>+</sup>11b]. **indicus** [NRMS14]. **Indies** [HHM<sup>+</sup>14]. **indirect** [ZWG<sup>+</sup>18]. **individual** [DIVC16, HWM<sup>+</sup>13]. **Indo** [CDM<sup>+</sup>13]. **Indo-Pacific** [CDM<sup>+</sup>13]. **Indonesia** [SMC<sup>+</sup>11]. **indoor** [SBK<sup>+</sup>15]. **induce** [CZB<sup>+</sup>11, LPA<sup>+</sup>10, OBFR12, SWM<sup>+</sup>15]. **induced** [ACN12, AJLC<sup>+</sup>16, BRMG13, CGW<sup>+</sup>19, DAO19, FLCC<sup>+</sup>14, Góm12, GHB<sup>+</sup>11, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14, MMD<sup>+</sup>12, MLEM16, MGF17, XQS<sup>+</sup>15, ZZQ<sup>+</sup>19]. **induces** [CLGP15, CXW<sup>+</sup>19, ESV<sup>+</sup>19b, LF16, SON<sup>+</sup>18]. **Induction** [DJQ<sup>+</sup>12, HY16, FSV<sup>+</sup>18, MMS<sup>+</sup>16, WBF<sup>+</sup>10]. **industry** [VJWC<sup>+</sup>18]. **infect** [PST<sup>+</sup>16]. **infected** [AOAH13, BSV<sup>+</sup>18, BSSB18, BSD<sup>+</sup>18b, BSD<sup>+</sup>18c, BSB<sup>+</sup>18, BSD<sup>+</sup>18a, BLFRCQ10, BRB<sup>+</sup>12, Bin14, BCJ13, BTC<sup>+</sup>17, CLC<sup>+</sup>17, DCG18, DPADO16, FCM<sup>+</sup>19, FFLC17, GIW<sup>+</sup>11, GCM<sup>+</sup>18b, GMN12, HDWM15, HGB<sup>+</sup>11, HZX<sup>+</sup>13, JML19, JJV<sup>+</sup>15, KSM<sup>+</sup>17, KAST17, LRD<sup>+</sup>19, LMM<sup>+</sup>15, LMM<sup>+</sup>16, MKI<sup>+</sup>15, MKMY10, MTA<sup>+</sup>15, MTAB15, NB10, NHM<sup>+</sup>10, PB18, PRSK10, PJU<sup>+</sup>13, SP15, SWD<sup>+</sup>14, SFL<sup>+</sup>16, TJB<sup>+</sup>15, UMMS17, VTM<sup>+</sup>14, WMF14,

ZWY<sup>+11</sup>, ZPM<sup>+18</sup>, SSV<sup>+17</sup>]. **infecting**  
 [BLL<sup>+17</sup>, BNS13, FDL<sup>+17</sup>, IBFL19, LQL<sup>+10</sup>, LZGZ16, LJHG14, OMO<sup>+15</sup>,  
 RPGCIG17, SAS<sup>+19</sup>, SGQ<sup>+15</sup>, TB12, USM17, WMD<sup>+18</sup>, WCW<sup>+16b</sup>].  
**Infection** [ARFG13, BKD17, BLP10, CGAS19, DDBC<sup>+15</sup>, NNCLGC<sup>+11</sup>,  
 ZWLG10, ASA10, AMAR18, AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, ATP<sup>+16</sup>, AZSI<sup>+12</sup>,  
 ABT<sup>+14</sup>, AA10, BSPS<sup>+18</sup>, BMD<sup>+14</sup>, BBF<sup>+15</sup>, BLdA<sup>+18</sup>, BAMYAH19,  
 BE19, BHO<sup>+19</sup>, BFFA<sup>+12</sup>, BDB<sup>+18</sup>, BVG<sup>+10</sup>, BVT<sup>+18</sup>, CBLN13, CDM<sup>+13</sup>,  
 CBC<sup>+13</sup>, CHWM<sup>+19</sup>, CAJD<sup>+18</sup>, CKvGJB17, CG11, CB13, CDD<sup>+18</sup>,  
 CCM<sup>+11</sup>, CCMA<sup>+17</sup>, DBS12, DIH<sup>+16</sup>, DLP<sup>+13</sup>, DMB<sup>+16</sup>, DMD<sup>+17</sup>,  
 DJR<sup>+19</sup>, DCZ<sup>+17</sup>, EDP<sup>+17</sup>, ESA<sup>+10</sup>, ECP<sup>+10</sup>, FBAS16, FSV<sup>+14</sup>, FŠK<sup>+19</sup>,  
 FBVC16, FCC<sup>+13</sup>, FSO<sup>+10</sup>, FCS<sup>+18</sup>, GSEM13, GRP<sup>+15</sup>, GDN<sup>+16</sup>,  
 HKK<sup>+11a</sup>, HPY<sup>+13</sup>, ICSV16, JKL<sup>+13</sup>, JHW17, JFWH19, JMF<sup>+18</sup>,  
 JKH<sup>+17</sup>, KKK15, KSS<sup>+15</sup>, KRD<sup>+17</sup>, KPK<sup>+18</sup>, KHC<sup>+18</sup>, KLD<sup>+18</sup>,  
 KKYO19, KBE<sup>+14</sup>, KJW<sup>+17</sup>, KDA<sup>+18</sup>, KKKA17, KDP<sup>+17</sup>, LGK<sup>+14</sup>,  
 LLG<sup>+15</sup>, LP17, LMG<sup>+19</sup>, LC17, LCOZ10, LL12, LLH<sup>+14b</sup>, LXL<sup>+18</sup>, LGJ19,  
 LCR<sup>+10</sup>, LSA<sup>+15</sup>, LYKN18, LHW<sup>+15b</sup>, LXZ<sup>+19</sup>, MBOC19, MSC<sup>+17</sup>,  
 MLRS<sup>+17</sup>, MFES18, MSR<sup>+10</sup>, MKH<sup>+11</sup>]. **infection**  
 [MUM<sup>+19</sup>, MTA<sup>+15</sup>, MCW<sup>+18</sup>, MKKM15, NOV<sup>+11</sup>, NYRS12, OJRL10,  
 PBC15, PRWG17, PFP<sup>+13</sup>, PYSS19, PPI<sup>+13</sup>, PPF<sup>+12</sup>, PG16, PMK12,  
 PFC<sup>+13</sup>, PMPG<sup>+16</sup>, QWTL17, QZZ<sup>+18b</sup>, RHS<sup>+12</sup>, ŘKH17, RBM<sup>+16</sup>,  
 RFA<sup>+14</sup>, RSR<sup>+18</sup>, RPM<sup>+19</sup>, SHKF16, SZM<sup>+15</sup>, SBP<sup>+19</sup>, SSV<sup>+10</sup>, SGB<sup>+16</sup>,  
 SHJ<sup>+12</sup>, SDJH16, SPLV<sup>+15</sup>, SS17, SSJ<sup>+19</sup>, SNM<sup>+16</sup>, SAD<sup>+12</sup>, SWWN<sup>+16</sup>,  
 SODB16, SOA<sup>+18</sup>, SVY<sup>+14</sup>, SON<sup>+18</sup>, SRT<sup>+14</sup>, SNK<sup>+19</sup>, TIK<sup>+14a</sup>, TTL<sup>+16</sup>,  
 TDS<sup>+19</sup>, VDMJ<sup>+13</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WBF<sup>+10</sup>, WLX<sup>+10</sup>, WKW<sup>+11</sup>,  
 WIC<sup>+19</sup>, Wen16, WFH<sup>+18</sup>, WXWD15, XJL<sup>+19</sup>, YFA<sup>+17</sup>, YDO<sup>+16</sup>, YK13,  
 YYW<sup>+14</sup>, YLX<sup>+19b</sup>, ZNHC11a, ZNHC11b, ZKL<sup>+19</sup>, ZLN<sup>+17</sup>]. **Infections**  
 [LHW<sup>+15a</sup>, STF<sup>+15</sup>, SBM<sup>+11</sup>, BFJ11, CMH<sup>+17</sup>, CLS<sup>+15</sup>, DS10, DYML<sup>+18</sup>,  
 FYO<sup>+11</sup>, GFW<sup>+10</sup>, GRF14, HCL<sup>+14</sup>, JQK14, JZK<sup>+14</sup>, JJSJ15, KFK<sup>+16</sup>,  
 LML12, LST<sup>+12</sup>, LPCC12, LLL<sup>+18a</sup>, NMiy14, RAM<sup>+19</sup>, RSH11, SWS<sup>+16</sup>,  
 SVV<sup>+17</sup>, TSK<sup>+19</sup>, UMMS17, WMF14, WBD10a, WNAJ<sup>+16</sup>, ZHFC11,  
 PTM<sup>+19</sup>]. **Infectious** [ADF14, BAH<sup>+18</sup>, CCCTA<sup>+14</sup>, MNM<sup>+18</sup>, MMNL14,  
 RWTB17, TVK<sup>+19</sup>, ADMF15, ATM<sup>+10</sup>, ASHZ<sup>+12</sup>, AOA13, BMK17,  
 CGW<sup>+19</sup>, DSJA18, EYF<sup>+19</sup>, ECP<sup>+10</sup>, EBM<sup>+18</sup>, EEMCEGSP16, FE11,  
 GL18, GTT<sup>+17</sup>, GCS<sup>+18</sup>, HSC<sup>+16</sup>, HWM<sup>+13</sup>, HMV<sup>+17</sup>, IOO15, JDRM17,  
 JOF<sup>+19</sup>, JSK<sup>+10</sup>, JMS13, JJSJ15, KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LTG<sup>+18</sup>,  
 LTM<sup>+19</sup>, LLLG18, LASRA<sup>+19</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, LRMN17,  
 MBOC19, MMWK19, MAC<sup>+15</sup>, MR11, MTHB13, MNM<sup>+19</sup>, MMH10, NB10,  
 OBFR12, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, RMSH09, SJDC<sup>+13</sup>, SWD<sup>+14</sup>,  
 SG12, SSO<sup>+14</sup>, TIK<sup>+14a</sup>, VDMJ<sup>+13</sup>, VCOD17, YLSW14, YHY<sup>+16</sup>].  
**infective** [FSB18a, GGGM14]. **infective-stage** [FSB18a]. **Infectivity**  
 [CGCAH12, SCR<sup>+15</sup>, FE11, GTH11, OKS<sup>+13</sup>, SG12]. **infests**  
 [RAVC18, VSDS<sup>+19a</sup>]. **inference** [RRC<sup>+17</sup>]. **inferred**  
 [FMA<sup>+19</sup>, MFS<sup>+17</sup>, STIG17]. **infestation**  
 [FDST16, GAVC16, HSHC<sup>+16</sup>, MGM<sup>+18</sup>, SFU<sup>+13</sup>, VMBGE17].

**infestations**[GCGR13, HLHS11, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14, PBBG19, SMR10, TAQ<sup>+</sup>10].**infesting** [YB17]. **inflammation**[BKG<sup>+</sup>18, GRT12, MLF<sup>+</sup>10, NHM<sup>+</sup>10, WHR<sup>+</sup>18]. **inflammatory** [BSB<sup>+</sup>18, BSD<sup>+</sup>18a, BSD<sup>+</sup>18d, ESV<sup>+</sup>19b, GIW<sup>+</sup>11, MDF<sup>+</sup>17, RCGGM15, SJSA<sup>+</sup>14].**Influence** [HH13a, JSAB<sup>+</sup>19, SLPB18, SSL18, WBF<sup>+</sup>10, BSD<sup>+</sup>18a, DIVC16, IBFL19, MPS<sup>+</sup>18]. **influenced** [BSPS<sup>+</sup>18]. **influences**[CRBLIC<sup>+</sup>17, JMF<sup>+</sup>18]. **influencing** [CHAB10, TES16]. **Information**

[Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, AGFG19, MJ17].

**informing** [SMR16, SDI<sup>+</sup>18]. **infrared** [WNCR12]. **Ingestion** [SNM<sup>+</sup>16].**inhabiting** [FDL<sup>+</sup>17]. **Inhibition**[GSBEM15, HMP<sup>+</sup>12, BSD<sup>+</sup>18c, DRG<sup>+</sup>17, HLP<sup>+</sup>16]. **inhibitors**[AS17, ASS19, UKS<sup>+</sup>18]. **Inhibitory**[SBW11, BLFC12, PSBG<sup>+</sup>11, YVM<sup>+</sup>14, YLX<sup>+</sup>19b]. **inhibits**[BSV<sup>+</sup>18, TKS<sup>+</sup>18]. **iniae** [BYAS<sup>+</sup>19, CZL<sup>+</sup>19, EPA<sup>+</sup>10, HJOK11, KNN19, OGI<sup>+</sup>18, SLKE10, WZL13, ZFZ<sup>+</sup>11]. **initial** [SZM<sup>+</sup>15]. **injectable**[HJN<sup>+</sup>19]. **injection** [CMH<sup>+</sup>17, ELI<sup>+</sup>17, GSS<sup>+</sup>10, GMC<sup>+</sup>16b, MID<sup>+</sup>19b, PYSS19, RPMRLJ<sup>+</sup>19, SPLV<sup>+</sup>15]. **injury** [FBK<sup>+</sup>16]. **inkyongense**[dASLS<sup>+</sup>19]. **innate** [JKH<sup>+</sup>17, LKS<sup>+</sup>13, STS<sup>+</sup>15, YSHG18]. **innesi**[SMS<sup>+</sup>19]. **inoculation** [SDR<sup>+</sup>15]. **inorganic** [MMNL14]. **inornatus**[SBW<sup>+</sup>18]. **insight** [dALF<sup>+</sup>17]. **Insights** [COB<sup>+</sup>16, SP15]. **integrate**[JMD<sup>+</sup>18]. **integrity** [FMM<sup>+</sup>19, FE11]. **integron** [NB11]. **intensity**[BND<sup>+</sup>17, BWP<sup>+</sup>19b]. **Intensive** [TAQ<sup>+</sup>10, JR19, LLH<sup>+</sup>14b, STS<sup>+</sup>15].**intensively** [MP18, SKPS16, SMS<sup>+</sup>18]. **interacting** [SRSF10]. **interaction**[GIW<sup>+</sup>11, IBFL19, MKI<sup>+</sup>15, RGD<sup>+</sup>12, SP15, WNMK<sup>+</sup>16]. **Interactions**[LMC<sup>+</sup>16, GAEK<sup>+</sup>14, JFWH19, Tre12]. **interactome** [FMA<sup>+</sup>19]. **interface**[BCJ13]. **interferes** [VDH19]. **interferons** [NSE<sup>+</sup>17]. **intergenic** [TAC15].**interleukin** [CKTT10]. **interleukin-1** [CKTT10]. **internal**[DPMK12, LCZ<sup>+</sup>18]. **internalization** [TDT<sup>+</sup>16]. **internalize** [LASRA<sup>+</sup>19].**interpretation** [GVB<sup>+</sup>17a]. **intestinal**[BGD<sup>+</sup>17, BWS<sup>+</sup>18, DPC<sup>+</sup>10, DMB<sup>+</sup>16, DAO19, ERÁpSB14, JSAH<sup>+</sup>18,LFL19, MBB12, MKK<sup>+</sup>11, SJSA<sup>+</sup>14, VMBGIC19]. **intestine**[BKG<sup>+</sup>18, BDM<sup>+</sup>18]. **intestines** [YkSKY13]. **Intimal** [DRdS<sup>+</sup>10]. **intra**[GSS<sup>+</sup>10]. **intra-peritoneal** [GSS<sup>+</sup>10]. **intracellular**[AHAMR<sup>+</sup>19, MB17, YVM<sup>+</sup>14]. **intracoelomic** [PYSS19]. **Intragastric**[PYSS19]. **Intragenomic** [LWWS14]. **Intramuscular**[ESV<sup>+</sup>19b, ELI<sup>+</sup>17, FGJ<sup>+</sup>10]. **intranuclear** [ACSB<sup>+</sup>19, XLZ<sup>+</sup>17].**intraperitoneal**[ELI<sup>+</sup>17, LWJ<sup>+</sup>16, MID<sup>+</sup>19b, MID<sup>+</sup>19a, RPMRLJ<sup>+</sup>19, SPLV<sup>+</sup>15].**Intraspecific** [BAD<sup>+</sup>12]. **Introduced** [BMD<sup>+</sup>14]. **intubation**[JSAH<sup>+</sup>18, SJSA<sup>+</sup>14]. **Invasion**[RhAS<sup>+</sup>15, HGW<sup>+</sup>19, KVC<sup>+</sup>16, VMBGIC19]. **invasions** [WTM14]. **invasive**

[BND<sup>+17</sup>, GCNB18, KPKP10, MKK<sup>+11</sup>, RHST<sup>+16</sup>, SBD11]. **invertebrates** [BCL<sup>+19</sup>, HCCM12]. **investigate** [AAUHW15]. **Investigating** [GAEK<sup>+14</sup>, JBO<sup>+15</sup>]. **Investigation** [DWL<sup>+17</sup>, DYML<sup>+18</sup>, GFB<sup>+19</sup>, SS17, SFF<sup>+17</sup>, VCR<sup>+11</sup>, YLSW14, BSW17, HZJ<sup>+19</sup>, KOI<sup>+14</sup>, SSJ<sup>+19</sup>]. **Investigations** [NLC<sup>+16</sup>, SVV<sup>+17</sup>]. **investment** [PPF<sup>+12</sup>]. **involved** [CIL<sup>+17</sup>, DLP<sup>+13</sup>, GSEM13, LCV<sup>+17</sup>, LSC<sup>+14</sup>, MBB12, PKLH19, RMS<sup>+13</sup>, WCL<sup>+19</sup>]. **Involvement** [BSD<sup>+18b</sup>, BSD<sup>+18c</sup>, LTC16, NB10]. **involving** [CDD<sup>+18</sup>, DABO<sup>+17</sup>, LEM<sup>+19</sup>]. **iodine** [MoSMS18]. **iodixanol** [DLCC<sup>+13</sup>]. **IPN** [CRAG<sup>+12</sup>]. **IPNV** [BAH<sup>+18</sup>, CGW<sup>+19</sup>, ECP<sup>+10</sup>, JJSJ15, KBD13, LJGRI<sup>+10</sup>, NSE<sup>+17</sup>, NB10, PFJ<sup>+10</sup>]. **Iran** [RHZA<sup>+16</sup>]. **Ireland** [JCN<sup>+14</sup>, BW18, GFW<sup>+10</sup>, GFR<sup>+12</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, KRFT14, MSR<sup>+10</sup>, RMSH09, SBH<sup>+16</sup>, TCM<sup>+19</sup>]. **iridoviral** [LGK<sup>+14</sup>]. **Iridoviridae** [MNG<sup>+18</sup>]. **Iridovirus** [WBD10a, CCLL16, GH<sup>H</sup><sup>+11</sup>, HLC<sup>+15</sup>, JLJ16, KHC<sup>+18</sup>, LCC<sup>+15</sup>, RWTB17, SCK13, WZL<sup>+11</sup>, YLX<sup>+19b</sup>]. **iridovirus-type** [KHC<sup>+18</sup>]. **iridoviruses** [BLL<sup>+17</sup>]. **Irish** [GM11]. **Iron** [BPMI<sup>+16</sup>, BLF<sup>+16</sup>, BAMYAH19, CRO<sup>+18</sup>, OJRL10, VMBGE17, WZL13]. **iron-acquisition** [BAMYAH19]. **irradiation** [CB13]. **irritans** [LMAKN16]. **ISA** [CRAG<sup>+12</sup>]. **ISAV** [AGB<sup>+19</sup>, GL18, MMWK19, NSE<sup>+17</sup>]. **Isbrücker** [ADR11]. **ISKNV** [TIK<sup>+14a</sup>]. **Island** [HSGD11, MMMD16]. **islandica** [ATP<sup>+16</sup>]. **islands** [LCV<sup>+17</sup>, Gis18]. **isogeneic** [NSS<sup>+17</sup>]. **isolate** [CHH<sup>+14</sup>, HO13, HHX<sup>+15</sup>, IOO15, JSK<sup>+10</sup>, MID<sup>+19a</sup>, ZLX<sup>+19</sup>]. **isolated** [BT14, CVLJ<sup>+10</sup>, CMSHS16, COB<sup>+16</sup>, CLLF14, DMP10, DLPR15, DSJA18, GJVT<sup>+11</sup>, GBO<sup>+18</sup>, GCMG<sup>+11</sup>, HKK<sup>+11b</sup>, HY16, IGLG<sup>+17</sup>, KTP<sup>+15</sup>, KKM<sup>+19</sup>, KSAB<sup>+14</sup>, LEM<sup>+19</sup>, LY<sup>L</sup><sup>+18</sup>, MNM<sup>+18</sup>, NM<sup>M</sup><sup>+14</sup>, NM<sup>M</sup><sup>+18</sup>, PKPG15, PSBG<sup>+11</sup>, PAZ18, PLC<sup>+19b</sup>, RKK<sup>+19</sup>, RVC18, SDWA18, dASLS<sup>+19</sup>, SKB10, TWYC15, YkSKY13, ZZC<sup>+17</sup>]. **isolates** [ACAS14, AAZS<sup>+15</sup>, BAD<sup>+12</sup>, BGC<sup>+17</sup>, BBP18, BFC<sup>+15</sup>, CD17, CYS17, DBV<sup>+13</sup>, DLCF13, DZV10, DMK<sup>+19</sup>, FSB<sup>+18c</sup>, FNISE12, GPFGAG19, GRG<sup>+16</sup>, HBB<sup>+15</sup>, HKB<sup>+16</sup>, HXZ<sup>+16</sup>, JDH<sup>+18</sup>, JGI<sup>+10</sup>, JMS13, JSJR<sup>+18</sup>, KWD<sup>+16</sup>, LLLG18, MPBM<sup>+16</sup>, MNM<sup>+18</sup>, NSB<sup>+18</sup>, PSCFB<sup>+18</sup>, PRY<sup>+18</sup>, RB15, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, RMSH09, SHO<sup>+17</sup>, SLKE10, TJB<sup>+15</sup>, ZWL<sup>+16</sup>]. **Isolation** [ABF15, BLFC12, CLZ<sup>+12</sup>, DKBS17, FDL<sup>+17</sup>, GJM<sup>+15</sup>, GFS<sup>+14</sup>, JDRM17, LDA<sup>+19</sup>, OBR<sup>+14</sup>, PBMB11, RSM<sup>+18</sup>, SSF<sup>+17</sup>, SMC<sup>+11</sup>, WCW<sup>+16b</sup>, ZB12, ZSF16, ZLX<sup>+19</sup>, ATM<sup>+10</sup>, BMMP<sup>+14</sup>, DSMC17, DABO<sup>+17</sup>, LPVGL<sup>+10</sup>, MHNY18, MNM<sup>+19</sup>, SPS<sup>+17</sup>, SMV<sup>+14</sup>, SWE<sup>+19</sup>, VDD<sup>+18</sup>, ZxYJ<sup>+19</sup>, EA18]. **isopods** [HSGD11]. **isothermal** [HJOK11, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, LLWL15, MSI<sup>+15</sup>, YWW<sup>+19</sup>]. **Issue** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l]. **Isurus** [ABM<sup>+15</sup>]. **Itagaki** [LML12]. **Italy** [APP<sup>+17</sup>, VPS<sup>+14</sup>, BVG<sup>+10</sup>, BVT<sup>+18</sup>, CGP<sup>+19</sup>, FCC<sup>+13</sup>, FSC<sup>+16</sup>, QPB<sup>+16</sup>]. **items** [PJL<sup>+12</sup>]. **IV** [DJR<sup>+19</sup>, GVC<sup>+19</sup>, MSG<sup>+18</sup>]. **IVb**

[AHHR<sup>+</sup>10, AHPR<sup>+</sup>16, Ano12c, GMN12, GRP<sup>+</sup>15, HPAL10, KF10a, MF12, OEG<sup>+</sup>13, VBL<sup>+</sup>15, VBL<sup>+</sup>16, WKW<sup>+</sup>11]. **ivermectin** [ANB<sup>+</sup>19].

**Jackson** [KRFT14]. **jandaei** [DTJ<sup>+</sup>17]. **Japan**

[CONN10, MHNY18, MKMY10, TIK<sup>+</sup>14a, ZYW<sup>+</sup>10]. **Japanese**  
 [FYO<sup>+</sup>11, KYK<sup>+</sup>12, KPK<sup>+</sup>18, OMO<sup>+</sup>15, WCW<sup>+</sup>16b]. **japonensis** [SBD11].  
**japonica** [KYK<sup>+</sup>12, KPK<sup>+</sup>18, KLD<sup>+</sup>18, OMO<sup>+</sup>15]. **japonicus**  
 [ESA<sup>+</sup>10, LQL<sup>+</sup>10, MTK<sup>+</sup>10, XJL<sup>+</sup>19]. **Jasus** [ZJDL18]. **Jaundice**  
 [OAO<sup>+</sup>12, MFS<sup>+</sup>17, GMC<sup>+</sup>16a]. **jaw** [ACA<sup>+</sup>16, WBE<sup>+</sup>17]. **JEECV**  
 [OMO<sup>+</sup>15]. **jellyfish** [MLMR16, PÅD18]. **jirovecii** [AMAR18]. **Jordan**  
 [DBHC17, FYO<sup>+</sup>11, WWS<sup>+</sup>11]. **jordani** [GM11]. **juvenile** [ASW16,  
 AAV<sup>+</sup>16, BCT<sup>+</sup>17, BBP18, HSGD11, HKD<sup>+</sup>10, KF10b, KPM<sup>+</sup>11, LKS<sup>+</sup>13,  
 MUM<sup>+</sup>19, MPM16, PST<sup>+</sup>16, PSS17, STF<sup>+</sup>15, SSF<sup>+</sup>17, XLZ<sup>+</sup>17, VCLW16].  
**juveniles** [EEMCEGSP16, OP14, PBM<sup>+</sup>15, RBWR<sup>+</sup>15, SOA<sup>+</sup>18].

**Kaolinitic** [BBF<sup>+</sup>15]. **Kaup**

[CVLJ<sup>+</sup>10, CTD<sup>+</sup>12, CPP14, CRS<sup>+</sup>13, CSCCA14, FBL<sup>+</sup>14, dALF<sup>+</sup>17].

**Kellogg** [TNK12, WBF<sup>+</sup>10]. **Kempkes** [ADR11]. **Kenya**

[MNM<sup>+</sup>18, MNM<sup>+</sup>19]. **keta** [KBE<sup>+</sup>14]. **key**  
 [KFK<sup>+</sup>16, LXZ<sup>+</sup>19, WMM17, ZZQ<sup>+</sup>19]. **Khawia** [SBD11]. **KHV** [BSK<sup>+</sup>10,  
 BWZ<sup>+</sup>17, KKOY19, MTA<sup>+</sup>15, PFP<sup>+</sup>13, RBM<sup>+</sup>16, SMC<sup>+</sup>11, ZWL<sup>+</sup>14].

**KHV-CJ** [ZWL<sup>+</sup>14]. **KHVD** [BSK<sup>+</sup>10]. **kidney**

[BSW17, BLdA<sup>+</sup>18, BSSH17, BLP10, BSBH10, CHAB10, CSCCA14,  
 GHH<sup>+</sup>11, KSM<sup>+</sup>17, Lek12, PRSK10, RhMM<sup>+</sup>15, RWTB17, SWD<sup>+</sup>14,  
 SSO<sup>+</sup>14, TIK<sup>+</sup>14a, WWS<sup>+</sup>11, XWP<sup>+</sup>18]. **kidney-derived** [WWS<sup>+</sup>11]. **kill**  
 [MP18]. **killer** [BRB<sup>+</sup>12, LSC<sup>+</sup>14]. **killing** [MWRSK17, TDLT<sup>+</sup>16]. **kills**  
 [LDEH17]. **kinase** [FMA<sup>+</sup>19, HCW<sup>+</sup>16, PMH<sup>+</sup>11]. **kind** [BSPS<sup>+</sup>18].

**Kinetic** [FGJ<sup>+</sup>10, TDT<sup>+</sup>16]. **kinetics** [SS17, TNK12]. **Kingdom** [NSB<sup>+</sup>18].  
**kingfish** [NWMK16, STIG17]. **Kinkelin** [HMDB13]. **kisutch** [AHTCA<sup>+</sup>17].

**Klamath** [JMHK18]. **Kner** [EDSL11]. **knowledge**

[GFS<sup>+</sup>18, JJM<sup>+</sup>17, KSS17, LRMN17, MYWC18, ZGY<sup>+</sup>18]. **known**  
 [MS16, VLVS<sup>+</sup>16]. **Koi** [CCT<sup>+</sup>11, PTM<sup>+</sup>19, TDJ<sup>+</sup>10, ATJS<sup>+</sup>18, BSK<sup>+</sup>10,  
 BMK17, CLC<sup>+</sup>17, CCW<sup>+</sup>15, CLHGK17, CDD<sup>+</sup>18, EYF<sup>+</sup>19, FBS13,  
 FSV<sup>+</sup>14, GJM<sup>+</sup>15, HDC18, KKOY19, MTA<sup>+</sup>15, MTAB15, RHZA<sup>+</sup>16,  
 RBH<sup>+</sup>17, SGB<sup>+</sup>16, SEM18, SMC<sup>+</sup>11, TWJP10, WZW<sup>+</sup>18, YkSKY13].

**koi-herpesvirus** [YkSKY13]. **Korea**

[HKK<sup>+</sup>11a, HKK<sup>+</sup>11b, HPY<sup>+</sup>13, KYK<sup>+</sup>12, KLD<sup>+</sup>18, RKK<sup>+</sup>19, SDJH16].

**Korean** [KOS<sup>+</sup>10]. **koreensis** [SM14]. **Krabbe** [BK12, MGH<sup>+</sup>14]. **Krkosek**  
 [JCN<sup>+</sup>14]. **Krøyer** [AHH16, DLLB<sup>+</sup>18, IPW<sup>+</sup>13, JR19, PJZB19]. **Kruger**  
 [HGP11, HOHG13]. **kuda** [DCV<sup>+</sup>14, LYD<sup>+</sup>15]. **Kudo** [RKPG16]. **Kudoa**  
 [ATP<sup>+</sup>16, CB13, MSBB<sup>+</sup>16, SS17, TOK<sup>+</sup>16]. **kuruma** [ESA<sup>+</sup>10, MTK<sup>+</sup>10].  
**Kuwahara** [LML12]. **kynurenic** [KSM<sup>+</sup>17].

**L** [ASHZ<sup>+</sup>12, JCN<sup>+</sup>14, ZWLG10, LFD<sup>+</sup>17, ZCJ<sup>+</sup>18]. **L-aspartate** [ZCJ<sup>+</sup>18].

**L-Lactic-Co-Glycolic** [ASHZ<sup>+12</sup>]. **L-rhamnose** [LFD<sup>+17</sup>]. **L.** [ACN12, ATP<sup>+16</sup>, AGFG19, AZSSZZ13, ACA<sup>+16</sup>, AAV<sup>+16</sup>, ARFG13, ASSP<sup>+15</sup>, Ano10c, AI11, ACM<sup>+14</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, BNC<sup>+11</sup>, BSWS11, BSC<sup>+14</sup>, BMD<sup>+14</sup>, BGRB14, BLFRCQ10, BC11, BT14, BSSH17, BMGS17, BMT<sup>+15</sup>, BHA<sup>+17</sup>, BNS13, BK12, BSBH10, BGCKF12, CBLN13, CBC<sup>+13</sup>, CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CJB<sup>+15</sup>, CR12, CLL<sup>+10</sup>, CCT<sup>+11</sup>, CLHGK17, CKTT10, CCHL13, CCME16, CZB<sup>+11</sup>, CRAG<sup>+12</sup>, CLLF14, DTF<sup>+16</sup>, DKG<sup>+17</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DLP<sup>+13</sup>, DdRTM13, DPCdR14, DTJ<sup>+17</sup>, DRdS<sup>+10</sup>, EPA<sup>+10</sup>, ECP<sup>+10</sup>, EWH<sup>+19</sup>, ELI<sup>+17</sup>, EDV<sup>+18</sup>, ESV<sup>+19b</sup>, EMA17, FLCC<sup>+14</sup>, FSV<sup>+14</sup>, FKB<sup>+14</sup>, FMM<sup>+19</sup>, FCC<sup>+13</sup>, FSC<sup>+16</sup>, FFP<sup>+14</sup>, FHFF15, FMH<sup>+15</sup>, GJVT<sup>+11</sup>, GFO<sup>+13</sup>, GFS<sup>+18</sup>, GMG<sup>+19</sup>, GMC<sup>+16a</sup>, GJM<sup>+15</sup>, GIW<sup>+11</sup>, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GCMG<sup>+11</sup>, GMC<sup>+16b</sup>, GSEM13, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13, GGGM14, HHO14, HLHS11, HKD<sup>+10</sup>, HSA17, HST<sup>+13</sup>, HCL<sup>+14</sup>, HJN<sup>+19</sup>, HMW11, HFKF17, HKF<sup>+16</sup>]. **L.** [IPW<sup>+13</sup>, IAR<sup>+10</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JQK14, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JAR<sup>+11</sup>, JBO<sup>+15</sup>, JOF<sup>+19</sup>, JNS<sup>+19</sup>, JCS11, JHRW17, JHGR13, JJSJ15, KAS<sup>+18</sup>, KTP<sup>+15</sup>, KSA<sup>+10</sup>, KPM<sup>+11</sup>, KRFT14, KAST17, KBD13, KWD<sup>+16</sup>, LGK<sup>+14</sup>, LDÁM14, LAN<sup>+14</sup>, LLH<sup>+14a</sup>, LGS<sup>+14</sup>, LCR<sup>+10</sup>, LJGRI<sup>+10</sup>, LPVGL<sup>+10</sup>, LBF<sup>+14</sup>, MBB12, MKI<sup>+15</sup>, MIO<sup>+18</sup>, MMWK19, MCWL13, MLMR16, MLRS<sup>+17</sup>, MLER<sup>+18</sup>, MSBB<sup>+16</sup>, MLF<sup>+10</sup>, MMBS10, MBS<sup>+17</sup>, MRSC13, MAC<sup>+15</sup>, MVWS13, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSS<sup>+12</sup>, MSR<sup>+10</sup>, MGH<sup>+14</sup>, MGM<sup>+16</sup>, MTA<sup>+15</sup>, MTAB15, MMH10, NLF11, NJK<sup>+17</sup>, NYRS12, NB10, OBR<sup>+14</sup>, OSC<sup>+14</sup>, ONGQ<sup>+14</sup>, OCLI<sup>+19</sup>, ONA10, OBD10, PAM<sup>+19</sup>, PBC15, PBM<sup>+15</sup>, PSZ<sup>+14</sup>, PBMB11, PGF<sup>+19</sup>, PHVM13, PFP<sup>+13</sup>, PYSS19, PB18, PPK<sup>+13</sup>, PPI<sup>+13</sup>, PFJ<sup>+10</sup>, PG16, PÅD18, PJu<sup>+13</sup>, QXW14, RHZA<sup>+16</sup>, Řeh13, RB15, RGD<sup>+12</sup>, RMAM12, RBF14, RMR14, RSH11, RSIP<sup>+17</sup>, RBWR<sup>+15</sup>, SMR10, SMM<sup>+13</sup>, SFR<sup>+17</sup>]. **L.** [Sam10, SBD11, SFBW<sup>+17</sup>, SWM<sup>+15</sup>, SPKS17, SLKE10, SL15, SBH<sup>+16</sup>, SFU<sup>+13</sup>, SG12, SWH<sup>+14</sup>, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, SKGE13, SBK<sup>+13</sup>, SKPS16, SKJ13, SSA13, SRB12, SNK<sup>+19</sup>, SJS14<sup>+14</sup>, TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TES11, TCM<sup>+19</sup>, TMC<sup>+12</sup>, TNK12, Tre12, TWYC15, VDMJ<sup>+13</sup>, VCN<sup>+10</sup>, VTM<sup>+14</sup>, VMCM14, VFB<sup>+12</sup>, WDM<sup>+15</sup>, WMM<sup>+16</sup>, WPH<sup>+13</sup>, WZW<sup>+18</sup>, WIC<sup>+19</sup>, WNLF<sup>+12</sup>, WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, WKK12, WEPB<sup>+18</sup>, YSHG18, YFA<sup>+17</sup>, YNL11, YMBe13, YP17, ZCCN13, ZNHC11a, ZNHC11b, ZCP12, ZWLG10, ZPM<sup>+18</sup>]. **labelled** [KTK17, VLVS<sup>+16</sup>, RGD<sup>+12</sup>]. **labelling** [EPCSBP18]. **Labeo** [KREM14, SSSP18]. **Laboratory** [ZCCN13, CBW19, KCL14, KAESEM13, MMD16, SSK17]. **labracis** [RRC<sup>+17</sup>]. **labrax** [CKTT10, FCM<sup>+19</sup>, FPK<sup>+17</sup>, LMC<sup>+16</sup>, NOST<sup>+16</sup>, PBC15, PST<sup>+16</sup>, RRC<sup>+17</sup>, RGD<sup>+12</sup>, TMC<sup>+12</sup>, TNK12, VTM<sup>+14</sup>]. **Labridae** [MMW<sup>+15</sup>, Tre12, WDM<sup>+15</sup>]. **Labrus** [BVK<sup>+16</sup>, BT14, RSP<sup>+17</sup>, RSM<sup>+18</sup>, SRM<sup>+18</sup>]. **Lacépède** [AZSI<sup>+12</sup>, CGAS19, CLZ<sup>+12</sup>, CWL<sup>+17</sup>, LYD<sup>+15</sup>, MGN<sup>+16</sup>, WKW13]. **Lack** [KSA<sup>+10</sup>, SL15]. **Lactic** [ASHZ<sup>+12</sup>, PSBG<sup>+11</sup>]. **lactis** [WEPB<sup>+18</sup>].

**lactococcosis** [CRBLC<sup>+17</sup>, CPB<sup>+15</sup>, FLC<sup>+17</sup>]. **Lactococcus** [ABT<sup>+14</sup>, CLT<sup>+14</sup>, DPMK12, FLC<sup>+17</sup>, HY16, PSBG<sup>+11</sup>, TAC15, WEPB<sup>+18</sup>]. **Lagoon** [YMBE13, YB17]. **Lagos** [AAUHW15]. **Lake** [BSC<sup>+14</sup>, JMHK18, MKKM15, NFF<sup>+17</sup>, ARR<sup>+18</sup>, CMS<sup>+19</sup>, CMR<sup>+16</sup>, HWO<sup>+17</sup>, JST<sup>+19</sup>, MCW<sup>+18</sup>, NMV<sup>+19</sup>, PYSS19, TSS18, TRS19, WWZ<sup>+18</sup>, WKW<sup>+11</sup>, YTKS19, YLL<sup>+18</sup>, YWW<sup>+19</sup>, BGRB14, BWB<sup>+17</sup>, HAP<sup>+10</sup>, HWO<sup>+17</sup>, MCW<sup>+18</sup>]. **lakes** [AAUHW15, EKED<sup>+17</sup>, FDL<sup>+17</sup>, KF10a, KF10b, OEG<sup>+13</sup>, WKW<sup>+11</sup>]. **lalandei** [STIG17]. **lalandi** [KHS11, NWMK16, RBAT<sup>+17</sup>, STIG17, SS17]. **LamB** [YZW<sup>+19</sup>]. **laminin** [MBD16]. **LAMP** [HJOK11, YWW<sup>+19</sup>]. **Lamproglena** [MAOS<sup>+18</sup>]. **lanceolatus** [BFFA<sup>+12</sup>, CBH<sup>+15</sup>, DDBC<sup>+15</sup>, GHW<sup>+15</sup>, SSF<sup>+17</sup>, ZDWH18]. **Landsberg** [ZYW<sup>+10</sup>]. **langsдорфii** [KKOY19, NSS<sup>+17</sup>]. **large** [HZJ<sup>+19</sup>, SPP<sup>+18</sup>, XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **Largemouth** [CGAS19, PBBG19, ZLX<sup>+19</sup>]. **Larimichthys** [XQS<sup>+15</sup>, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **larvae** [BCBS<sup>+13</sup>, BRMG13, BA13, CVGR<sup>+13</sup>, DMB<sup>+16</sup>, DMD<sup>+17</sup>, DABO<sup>+17</sup>, EEMCEGSP16, HBH<sup>+19</sup>, HPY<sup>+13</sup>, KS19, KTK17, LMC<sup>+16</sup>, MBB12, MRN<sup>+19</sup>, MGF17, NRF<sup>+18</sup>, NDA<sup>+19</sup>, RGD<sup>+12</sup>, RGMGG<sup>+18</sup>, RSH11, RCD<sup>+17</sup>, SPP<sup>+18</sup>, SCS<sup>+12</sup>, TNK12, WCL<sup>+12</sup>, ZJR<sup>+18</sup>]. **larval** [BT14, EDN18, MVM<sup>+18</sup>, RRO<sup>+13</sup>, RBAT<sup>+17</sup>]. **laser** [BCM<sup>+17</sup>, WNLF<sup>+12</sup>]. **late** [CCLL16, LCC<sup>+15</sup>, MLER<sup>+18</sup>]. **late-stage** [MLER<sup>+18</sup>]. **latency** [IFF<sup>+15</sup>]. **latent** [ATM<sup>+10</sup>, LMG<sup>+19</sup>]. **Lateolabrax** [SDJH16, XJL<sup>+19</sup>]. **lateral** [FPK<sup>+17</sup>, WSX<sup>+18</sup>]. **lateral-line** [FPK<sup>+17</sup>]. **Lates** [BO15, GKCC<sup>+12</sup>, JHW17, KNN19, SDM<sup>+19</sup>, TGJCH15]. **Latris** [ABC<sup>+10</sup>, CB13]. **Laurentian** [FDL<sup>+17</sup>, KF10b]. **layer** [GLK<sup>+16</sup>]. **LE141** [GPFGAG19]. **LE89** [GPFGAG19]. **lead** [CCHL13, GBV<sup>+16</sup>, MSS<sup>+12</sup>]. **leads** [ASW16, EDV<sup>+18</sup>, MSG<sup>+18</sup>, OP14]. **leaves** [ZTF<sup>+10</sup>]. **Lecanicephalidea** [BCJ13]. **lectin** [ACYC10, PBC15]. **Leech** [PBBG19, KCL14]. **leei** [ERÁpSB14, SSJ<sup>+19</sup>]. **leg** [TTL<sup>+16</sup>]. **length** [NRMS14]. **lentiginosus** [AFA<sup>+12</sup>]. **Lepeophtheirus** [AHH16, AH16, BRL<sup>+13</sup>, BDD<sup>+18</sup>, DLLB<sup>+18</sup>, EDN18, FSB18a, GCGR13, HH13b, IPW<sup>+13</sup>, JCN<sup>+13</sup>, JCN<sup>+14</sup>, JR19, JHGR13, KJB11, KRFT14, LGJ19, NRF<sup>+18</sup>, NLC<sup>+16</sup>, NBJ10, OWM<sup>+17</sup>, PJZB19, PPI<sup>+13</sup>, PFC<sup>+13</sup>, SMR10, SMM<sup>+13</sup>, SMR16, SFU<sup>+13</sup>, SSA13, USM17, WWE<sup>+13</sup>]. **lepeophtherii** [MRSC13]. **lepidosarcomas** [SMS<sup>+19</sup>]. **Lepidotrema** [FHD13]. **Lepomis** [ALG15, BMA13, DWL<sup>+17</sup>, LEM<sup>+19</sup>, LDEH17, LFL19]. **Lernaea** [RHS<sup>+12</sup>]. **Lernaeidae** [MAOS<sup>+18</sup>]. **Lernaeocera** [BSWS11]. **Lernaeopodidae** [PMBM13]. **lesion** [HKF<sup>+16</sup>]. **Lesional** [ONGQ<sup>+14</sup>]. **Lesions** [BB11, AGFG19, BOH<sup>+12</sup>, BMA13, CBFM16, Góm12, GHB<sup>+11</sup>, LLS<sup>+11</sup>, LWMT10, MPM16, PSS17, RhMM<sup>+15</sup>, RVB13, RSF<sup>+17</sup>, RBF14, SMJ<sup>+12</sup>, SM14, SON<sup>+18</sup>, VPS<sup>+14</sup>, VPCM19, WNLF<sup>+12</sup>]. **Lesson** [LYD<sup>+15</sup>]. **Lesueur** [GPWF19, LML12, LTC<sup>+14</sup>, PHR14, SCZM19]. **Letaba** [HGPD11]. **lethal** [FCM<sup>+19</sup>, MTAB15, SRB12]. **lethality** [DIVC16]. **lethostigma** [WWS<sup>+11</sup>]. **leucocytes** [CHAB10, CSCCA14]. **levamisole**

[ANB<sup>+</sup>19, OMB<sup>+</sup>19]. **level** [GBV<sup>+</sup>16, KAS<sup>+</sup>18, MTLP<sup>+</sup>18b, PSCFB<sup>+</sup>18]. **Levels** [áKÁGA16, DIVC16, GDN<sup>+</sup>16, HGG<sup>+</sup>11, JKO<sup>+</sup>13, MMH10, RHTC19b, YAHWU11]. **LF** [RSIP<sup>+</sup>17, RSPA<sup>+</sup>18]. **LF-89-like** [RSIP<sup>+</sup>17, RSPA<sup>+</sup>18]. **Libyan** [RBS<sup>+</sup>16, RSF<sup>+</sup>17]. **Lice** [BT13, Kan18, AH16, EWRH13, FVAVMGE18, GBV<sup>+</sup>16, GVB<sup>+</sup>17b, GVB<sup>+</sup>17a, Gis18, GCGR13, HGH<sup>+</sup>18, HH13b, JCN<sup>+</sup>13, JKO<sup>+</sup>13, JCN<sup>+</sup>14, JMD<sup>+</sup>18, JR19, JHGR13, KRFT14, LGJ19, MSMM19, MMH<sup>+</sup>18, NRF<sup>+</sup>18, NBJ10, PdLC19, PJU<sup>+</sup>13, PFC<sup>+</sup>13, SMR10, SMM<sup>+</sup>13, SCF<sup>+</sup>13, SDI<sup>+</sup>18, SSA13, SSL18, TJA<sup>+</sup>13, UMMS17, VDMJ<sup>+</sup>13, WWE<sup>+</sup>13, WOD16, YAHWU11, VCLW16]. **lice-induced** [JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14]. **lids** [BHW<sup>+</sup>11]. **Life** [RRC<sup>+</sup>17, AJLK<sup>+</sup>18, JHGR13, LF18, LNC<sup>+</sup>17]. **ligands** [YGL<sup>+</sup>18]. **light** [BRL<sup>+</sup>13, HPAL10, LSA<sup>+</sup>15]. **Ligurian** [VPS<sup>+</sup>14]. **like** [BRB<sup>+</sup>12, BMH<sup>+</sup>19, CCLGRM<sup>+</sup>17, CBFM16, dJDAVRGM<sup>+</sup>18, GMB<sup>+</sup>17, GBO<sup>+</sup>18, KHLL16, LLS<sup>+</sup>11, MBB12, MRR<sup>+</sup>14, MTG<sup>+</sup>10, MID<sup>+</sup>19b, NSE<sup>+</sup>17, PRSK10, RAVC18, RPJ<sup>+</sup>18, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SHO<sup>+</sup>17, SHKF16, SWD<sup>+</sup>14, WCL<sup>+</sup>19, ZGY<sup>+</sup>18, CKJ<sup>+</sup>14, MID<sup>+</sup>19a, NPGA<sup>+</sup>19]. **Limanda** [SBH<sup>+</sup>16, VDD<sup>+</sup>18]. **Limited** [PSCFB<sup>+</sup>18]. **Lindau** [HDC18]. **line** [ADR11, APG<sup>+</sup>11, BNC<sup>+</sup>11, BAMYAH19, FPK<sup>+</sup>17, GHH<sup>+</sup>11, GSBEM15, GHW<sup>+</sup>15, IFF<sup>+</sup>15, KLW10, LJC<sup>+</sup>19, MVM<sup>+</sup>18, NSE<sup>+</sup>17, PWPH18b, PWW19, PMW<sup>+</sup>10, SVL<sup>+</sup>17, SSG<sup>+</sup>19, SDR<sup>+</sup>15, VBL<sup>+</sup>15, VKK<sup>+</sup>19, WWS<sup>+</sup>11, WWZ<sup>+</sup>18, WZW<sup>+</sup>18, WKW13, Wen16, WBD<sup>+</sup>10b, XWP<sup>+</sup>18, YNL11, YCNW18]. **lineage** [MBS<sup>+</sup>17, SMC<sup>+</sup>11]. **lineages** [WBD<sup>+</sup>10b]. **lineata** [ABC<sup>+</sup>10, CB13]. **lined** [BCW<sup>+</sup>15, QWTL17, SBHC18]. **lines** [CLL<sup>+</sup>10, CGCAH12, EYF<sup>+</sup>19, MTHB13, NMV<sup>+</sup>19, VBL<sup>+</sup>16]. **link** [DPD<sup>+</sup>18, MLF<sup>+</sup>10]. **linked** [BWZ<sup>+</sup>17, DCMM13, DBM<sup>+</sup>14, FMA<sup>+</sup>19, KHLL16, NMIY14, PMH<sup>+</sup>11, TvWO<sup>+</sup>16, YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **links** [LC17]. **Linn** [ZKL<sup>+</sup>19]. **Linnaeus** [ASW16, BAH<sup>+</sup>16, FCM<sup>+</sup>19, FPK<sup>+</sup>17, GAVC16, HSHC<sup>+</sup>16, LLZW14, LDEH17, MBD16, MSS<sup>+</sup>17b, PJZB19, TDS<sup>+</sup>19, WSA<sup>+</sup>18]. **Linnhe** [SMR16, SDI<sup>+</sup>18]. **lion** [PÅD18]. **lipid** [CHF<sup>+</sup>12, DMB<sup>+</sup>19, HOHG13]. **lipidosis** [DBHC17, SKPS16]. **Lipoid** [DBHC17]. **lipomatosis** [RHST<sup>+</sup>16]. **lipopolysaccharide** [JBGP11]. **Liposarcoma** [RHST<sup>+</sup>16, SBK<sup>+</sup>15]. **liposome** [MTK<sup>+</sup>10]. **liposome-coated** [MTK<sup>+</sup>10]. **Liquid** [BCW<sup>+</sup>15, SHV<sup>+</sup>16]. **listed** [HAS<sup>+</sup>19]. **Listonella** [RRO<sup>+</sup>13]. **Litopenaeus** [HXZ<sup>+</sup>16, BTN<sup>+</sup>18, CLW<sup>+</sup>13, HMV<sup>+</sup>17, JQK14, KS19, RPGCIG17, SSV<sup>+</sup>17, SVM<sup>+</sup>18, TMM<sup>+</sup>15, TDLT<sup>+</sup>16, TDT<sup>+</sup>16]. **Little** [GB18, MS16]. **little-known** [MS16]. **litulon** [FYO<sup>+</sup>11]. **live** [CBW19, CBM<sup>+</sup>18, GWM12, MBS<sup>+</sup>19a, TWJP10, WKK12]. **live-attenuated** [MBS<sup>+</sup>19a]. **Liver** [DMD<sup>+</sup>17, NB10, PSZ<sup>+</sup>14, CMS<sup>+</sup>19, DBHC17, FBK<sup>+</sup>16, JCS11, KSM<sup>+</sup>17, RhMV<sup>+</sup>15, RMAM12, TMWV14]. **living** [OMO<sup>+</sup>15]. **liza** [PMBM13]. **Lizard** [HSGD11]. **lizardfish** [KSAB<sup>+</sup>14]. **loach** [ZWL<sup>+</sup>16]. **load** [DD18, OBFR12, USM17, VCN<sup>+</sup>10]. **loads** [PdLC19]. **lobster** [CG11, SQC<sup>+</sup>14, ZJDL18]. **local** [ASB<sup>+</sup>12, ESV<sup>+</sup>19b]. **localization** [ACYC10, PSS17]. **located** [HGW<sup>+</sup>19].

**location** [BNS13]. **locations** [JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14]. **Loch** [SMR16, SDI<sup>+</sup>18]. **loci** [PdLC19]. **locus** [MSG<sup>+</sup>18]. **Lom** [ZYW<sup>+</sup>10]. **Loma** [MVM<sup>+</sup>18, PG16]. **Long** [DIVC16, MSBB<sup>+</sup>16, KHG<sup>+</sup>17]. **Long-term** [DIVC16, MSBB<sup>+</sup>16, KHG<sup>+</sup>17]. **longfin** [ABM<sup>+</sup>15, MWS17, WTM14]. **longiceps** [GMP<sup>+</sup>11]. **longitudinal** [GFW<sup>+</sup>10, JWO<sup>+</sup>10]. **longsnout** [DSMC17, LKT<sup>+</sup>13]. **loop** [HJOK11, JYZ<sup>+</sup>14, KTN<sup>+</sup>16, LLWL15, MSI<sup>+</sup>15]. **loop-mediated** [HJOK11, JYZ<sup>+</sup>14, KTN<sup>+</sup>16, LLWL15, MSI<sup>+</sup>15]. **loopmediated** [YWW<sup>+</sup>19]. **Lophiiformes** [LZGZ16]. **Lophius** [FYO<sup>+</sup>11]. **lordosis** [LGS<sup>+</sup>14]. **lords** [GM11]. **Loskop** [HWO<sup>+</sup>17]. **loss** [TJB<sup>+</sup>15]. **Lost** [JMHK18]. **Lota** [PFJ<sup>+</sup>10]. **Lough** [MFES18]. **louse** [AHH16, BRL<sup>+</sup>13, BDD<sup>+</sup>18, EDN18, FSB18a, HBS<sup>+</sup>14, KJB11, NLC<sup>+</sup>16, OWM<sup>+</sup>17, SFU<sup>+</sup>13, USM17]. **Low** [HHO14, HZP<sup>+</sup>12, JLJ16, AAZS<sup>+</sup>15, BLF<sup>+</sup>16, EDV<sup>+</sup>18, GAVC16, HGG<sup>+</sup>11, LRS<sup>+</sup>17, LZZN10, MMBS10, MAC<sup>+</sup>15, MTHB13, MSK<sup>+</sup>12, SVL<sup>+</sup>17, WZA10]. **low-frequency** [LRS<sup>+</sup>17]. **low-speed** [MTHB13]. **low-virulence** [BLF<sup>+</sup>16]. **low-virulent** [WZA10]. **Lowe** [KCD<sup>+</sup>14, RBS<sup>+</sup>16, RSF<sup>+</sup>17]. **Lower** [HGPDI1, ACA<sup>+</sup>16, OP14]. **LPS** [UKS<sup>+</sup>18, ZZQ<sup>+</sup>19]. **LPS-induced** [ZZQ<sup>+</sup>19]. **LR** [FBK<sup>+</sup>16]. **LS** [DJR<sup>+</sup>19]. **LS-12** [DJR<sup>+</sup>19]. **lucioperca** [BAH<sup>+</sup>16]. **lucius** [Reh13]. **lugubris** [PBBG19]. **Luminal** [RRO<sup>+</sup>13]. **luminescent** [HBVB16]. **Lumpfish** [TDS<sup>+</sup>19, ATP<sup>+</sup>16, CCH<sup>+</sup>19, ESBE18, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, GVC<sup>+</sup>19, JHRW17, MLRS<sup>+</sup>17, PAM<sup>+</sup>19, PB18, RVC18, SBP<sup>+</sup>19, SFBW<sup>+</sup>17]. **lumpsucker** [AGR<sup>+</sup>16]. **lumpsuckers** [EWH<sup>+</sup>19]. **lumpus** [ATP<sup>+</sup>16, AGR<sup>+</sup>16, CCH<sup>+</sup>19, ESBE18, EWH<sup>+</sup>19, ELI<sup>+</sup>17, EDV<sup>+</sup>18, ESV<sup>+</sup>19b, GVC<sup>+</sup>19, JHRW17, MLRS<sup>+</sup>17, PAM<sup>+</sup>19, PB18, SBP<sup>+</sup>19, SFBW<sup>+</sup>17, TDS<sup>+</sup>19]. **lungfish** [RSR<sup>+</sup>18, SFF<sup>+</sup>17]. **lupin** [AA10]. **Lupinus** [AA10]. **luteus** [dJDAVRGM<sup>+</sup>18]. **Lutjanus** [CLWJ13, HCW<sup>+</sup>16, ZWY<sup>+</sup>11]. **luxatus** [JMHK18]. **lymphocystis** [CVGR<sup>+</sup>13, CCME16, HHX<sup>+</sup>15, JKC<sup>+</sup>11, PHvdH12]. **Lymphocystivirus** [CVLJ<sup>+</sup>10]. **lymphocyte** [HCW<sup>+</sup>16]. **Lymphoid** [JJS<sup>+</sup>12, SCZM19]. **lymphoma** [KVC<sup>+</sup>16]. **Lymphosarcoma** [MCWL13]. **lysogenic** [HY16]. **lysozyme** [LSC<sup>+</sup>14].

**M** [ESV<sup>+</sup>19b, PMW<sup>+</sup>10]. **M.** [FMT<sup>+</sup>14, JCN<sup>+</sup>14, PBW<sup>+</sup>18, ZYW<sup>+</sup>10]. **macarellus** [BHW<sup>+</sup>11]. **Maccullochella** [SJT14]. **mackerel** [BHW<sup>+</sup>11, ONGQ<sup>+</sup>14, RGMGG<sup>+</sup>18]. **maclovinus** [GOM<sup>+</sup>19]. **Macquaria** [HBB14, JFWH19]. **Macrobrachium** [FMT<sup>+</sup>14, HO13, LYKN18, RSGB<sup>+</sup>14, SPP<sup>+</sup>18, WCW16a, ZSF16]. **macrocephalus** [SRT<sup>+</sup>14]. **macrochirus** [BMA13, DWL<sup>+</sup>17, LEM<sup>+</sup>19, LDEH17, LFL19]. **macroglobulin** [LSA<sup>+</sup>15]. **macrophages** [DRG<sup>+</sup>17, UKS<sup>+</sup>18, WYZ<sup>+</sup>19]. **macropinocytosis** [LASRA<sup>+</sup>19]. **macropomum** [OMB<sup>+</sup>19, ANB<sup>+</sup>19, FCS<sup>+</sup>18, PdSG<sup>+</sup>12, VDO<sup>+</sup>18b, VDO<sup>+</sup>18a]. **macroscopic** [LWMT10]. **macrostomum** [BCM<sup>+</sup>17]. **macrostomus**

[IOO15]. **maculata** [CLZ<sup>+</sup>12, LGC<sup>+</sup>19]. **maculatus** [SDJH16]. **Magath** [RGMGG<sup>+</sup>18]. **magellanicus** [BRL<sup>+</sup>13]. **mahseer** [SM14]. **main** [RMS<sup>+</sup>13]. **Maine** [PJZB19]. **mainland** [CWW<sup>+</sup>18, ZCC18]. **maintained** [TIK<sup>+</sup>14a]. **maintenance** [KAESEM13]. **major** [CPB<sup>+</sup>15, SSO<sup>+</sup>14, PdLC19, KLW10]. **make** [DPADO16]. **mako** [ABM<sup>+</sup>15]. **Malacosporea** [MJ17]. **Malaysia** [ARR<sup>+</sup>18, AAZS<sup>+</sup>15, AZSI<sup>+</sup>12, SZZSFN<sup>+</sup>14, SSO<sup>+</sup>14]. **MALDI** [PSVK<sup>+</sup>18, PSCFB<sup>+</sup>18]. **MALDI-TOF** [PSVK<sup>+</sup>18, PSCFB<sup>+</sup>18]. **male** [CXK16, DBS12, RhAS<sup>+</sup>15, VMCM14, ZDWH18]. **malformation** [WBE<sup>+</sup>17]. **Malformations** [MGM<sup>+</sup>16]. **malformed** [RHVG<sup>+</sup>19b]. **Malmborg** [HHO14, WKK12]. **Maltoporin** [YZW<sup>+</sup>19]. **mammalian** [CGCAH12]. **Man** [FMT<sup>+</sup>14, RSGB<sup>+</sup>14]. **management** [ALG15, BPK<sup>+</sup>17, CHF<sup>+</sup>12, JMD<sup>+</sup>18, MSCH14, SMR16, SFF<sup>+</sup>17]. **mandarin** [KHC<sup>+</sup>18, SWD<sup>+</sup>14, TIK<sup>+</sup>14a, TQW<sup>+</sup>14]. **Manday** [ABM<sup>+</sup>15]. **mandelii** [LDEH17]. **mane** [PÅD18]. **Mangifera** [AA10]. **mango** [AA10]. **manifestations** [JJB15]. **manifesting** [AAZS<sup>+</sup>15]. **Manila** [ACYC10, FBVC16]. **mannan** [TMC<sup>+</sup>12]. **marbled** [LSC<sup>+</sup>14, LSA<sup>+</sup>15, PWHW18b, PWW19, WZL<sup>+</sup>11, Wen16, WCW<sup>+</sup>16b]. **marcescens** [CBC<sup>+</sup>13]. **marginatus** [ALG15, KCD<sup>+</sup>14, PMP<sup>+</sup>18, PDdC<sup>+</sup>14, RBS<sup>+</sup>16, RSF<sup>+</sup>17]. **mariculture** [YLX<sup>+</sup>19a]. **marine** [ADMF15, ACYC10, BWNS<sup>+</sup>11, GFB<sup>+</sup>13, GFM<sup>+</sup>11, GFR<sup>+</sup>12, HSA17, HY16, JCN<sup>+</sup>13, JCN<sup>+</sup>14, JJB15, KPT<sup>+</sup>11, KRFT14, KCL14, LTC16, LTC17, LHW<sup>+</sup>15a, MR11, RCD<sup>+</sup>17, SFU<sup>+</sup>13, WDM<sup>+</sup>15]. **marinum** [APP<sup>+</sup>17, BVG<sup>+</sup>10, CBW19, CSSWK10, PBW<sup>+</sup>18, SMF<sup>+</sup>10, Sla14, SMJ<sup>+</sup>14]. **marisflavi** [LQL<sup>+</sup>10]. **maritimum** [BMH<sup>+</sup>19, CSCCA14, FSG<sup>+</sup>12, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, MMS<sup>+</sup>16, VFB<sup>+</sup>12]. **Mark** [GRB<sup>+</sup>17, GMB<sup>+</sup>17, CSS<sup>+</sup>16, MTG<sup>+</sup>10]. **markedly** [LF18]. **marker** [DCMM13, DBM<sup>+</sup>14, MNG<sup>+</sup>18]. **markers** [TDH<sup>+</sup>10, ZFZ<sup>+</sup>11]. **marmorata** [PWHW18b, WCW<sup>+</sup>16b]. **marmoratus** [WZL<sup>+</sup>11]. **marron** [ABF15]. **Marsupenaeus** [ESA<sup>+</sup>10, MTK<sup>+</sup>10]. **Marteiliosis** [GKO<sup>+</sup>14]. **Masenia** [DAO19]. **masou** [IOO15]. **masquinongy** [Ano12c, KF10b, MF12]. **Mass** [XQS<sup>+</sup>15, AHB<sup>+</sup>17, BRMG13, FSC<sup>+</sup>16, GJM<sup>+</sup>15, LLC<sup>+</sup>11, LXL<sup>+</sup>18, MMG<sup>+</sup>11, RHZA<sup>+</sup>16]. **masses** [VPCM19]. **materials** [HH13a]. **matters** [PPK<sup>+</sup>13]. **mauve** [MLMR16]. **Mawsonascaris** [SDZN19]. **maximus** [HMW11, JCS11, LBF<sup>+</sup>14, MBB12, QXW14, SODB16, WM19, dOAPLá<sup>+</sup>17]. **may** [LC17, MBB12, PMH<sup>+</sup>11, WLX<sup>+</sup>10]. **Mayer** [FŠK<sup>+</sup>19]. **MBV** [RDN<sup>+</sup>12]. **McCulloch** [KRD<sup>+</sup>17, LLH<sup>+</sup>14b]. **MCP** [MNG<sup>+</sup>18]. **MCP43** [FMT<sup>+</sup>14]. **MCsialec** [ACYC10]. **MDA5** [NSE<sup>+</sup>17]. **meagre** [EKS<sup>+</sup>13]. **meal** [MTLP<sup>+</sup>18b]. **means** [CJB<sup>+</sup>15]. **measure** [RHS<sup>+</sup>12]. **measured** [JBO<sup>+</sup>15]. **measures** [NWMK16, TJR<sup>+</sup>18]. **mechanism** [WYZ<sup>+</sup>19, YLX<sup>+</sup>19b]. **Mechanisms** [ZCQF15, BAMYAH19, DLP<sup>+</sup>13, JBO<sup>+</sup>15]. **Medaka** [KTK17]. **media** [MB17, RSF<sup>+</sup>17, YSV<sup>+</sup>13]. **mediate** [LC17]. **mediated** [HJOK11, JOF<sup>+</sup>19, JYZ<sup>+</sup>14, KTN<sup>+</sup>16, LLWL15, MSI<sup>+</sup>15, XXL<sup>+</sup>19].

**medicated** [TNK12, dOAPLá<sup>+17</sup>]. **medicinal** [AHH16]. **Mediterranean** [EKS<sup>+13</sup>, GFB<sup>+13</sup>, PMP<sup>+18</sup>, RGMGG<sup>+18</sup>]. **medium** [CLW<sup>+11</sup>, CLT<sup>+14</sup>, KAESEM13]. **megalocytivirus** [JKH<sup>+17</sup>, JJV<sup>+15</sup>, KHC<sup>+18</sup>, MNG<sup>+18</sup>, NSC<sup>+15</sup>]. **Megalocytivirus-infected** [JV<sup>+15</sup>]. **megalocytiviruses** [GJK<sup>+11</sup>]. **Megalops** [BCW<sup>+15</sup>]. **Mekong** [BAD<sup>+12</sup>]. **Melaleuca** [BSD<sup>+18c</sup>, VGI<sup>+16</sup>]. **melamine** [PNBK13, PCK<sup>+15</sup>]. **melanin** [LAN<sup>+14</sup>]. **Melanized** [BHO<sup>+19</sup>]. **Melanogrammus** [JHM<sup>+18</sup>]. **melanoma** [RhAS<sup>+15</sup>]. **melanomacrophage** [PSZ<sup>+14</sup>]. **melanops** [PSK<sup>+12</sup>]. **melanopterus** [PC17, RTM<sup>+15</sup>]. **melanotic** [RVB13]. **melapterus** [HSGD11]. **melas** [BPF<sup>+18</sup>]. **Melh** [YMBE13]. **melleni** [RBAT<sup>+17</sup>]. **melops** [SRM<sup>+18</sup>]. **melting** [TCFáS19]. **member** [UN10]. **members** [GAC10]. **membrane** [CLWJ13, HGW<sup>+19</sup>, JSAB<sup>+19</sup>, KREM14, NNC<sup>+18</sup>, YHY<sup>+16</sup>]. **membrane-denitrification** [JSAB<sup>+19</sup>]. **membranes** [AI11]. **membras** [GJVT<sup>+11</sup>]. **Memoriam** [EW17]. **mercenariae** [RAVC18]. **mercenariae-like** [RAVC18]. **mercury** [VMCM14]. **merguiensis** [OLC11, OLC11]. **mesopotamicus** [CMSHS16, VGI<sup>+16</sup>]. **metabolic** [OP14, TvWO<sup>+16</sup>, UKS<sup>+18</sup>]. **metabolite** [FHZ<sup>+16</sup>]. **Metabolomic** [KOI<sup>+14</sup>, HZJ<sup>+19</sup>, LRMN17]. **metabolomics** [ZCJ<sup>+18</sup>]. **Metabronema** [SBK<sup>+13</sup>]. **metacercariae** [FSK<sup>+19</sup>, MGM<sup>+16</sup>]. **Metanophrys** [SPP<sup>+18</sup>]. **Metastatic** [PC17]. **metazoan** [MS16]. **Methacarn** [FMM<sup>+19</sup>]. **methaemoglobinemia** [MMD<sup>+12</sup>]. **method** [KKT<sup>+18a</sup>, KKKA17, MWRSK17, Mor12, PSR<sup>+11</sup>, VLVS<sup>+16</sup>]. **methodology** [PPK<sup>+13</sup>]. **Methods** [JSJR<sup>+18</sup>, AGB<sup>+19</sup>, CBLN13, CMS<sup>+17</sup>, EA18, FMT<sup>+14</sup>, FCM<sup>+19</sup>, JSJR<sup>+19</sup>, KJW<sup>+17</sup>, MTAB15, NJK<sup>+17</sup>, NCNB18, PHvdH12, VDH19, WCW16a, XZZ16, ZCCN13, ZCC<sup>+15</sup>]. **metritis** [BA13]. **Mexican** [NNCLGC<sup>+11</sup>]. **Mexico** [BB11, dJDAVRGM<sup>+18</sup>, EEMCEGSP16, OGI<sup>+18</sup>, OCLI<sup>+19</sup>, RPGCIG17]. **meyeni** [CDM<sup>+16</sup>]. **MGB** [LGC<sup>+19</sup>]. **MH** [YYW<sup>+14</sup>]. **MHC** [LLZW14, RBM<sup>+16</sup>]. **MI03** [KF10b]. **Miamiensis** [LPC<sup>+18</sup>]. **MIC** [SEK<sup>+16</sup>, YVM<sup>+14</sup>]. **Michigan** [BWB<sup>+17</sup>, LST<sup>+12</sup>]. **miconazole** [SSSP18]. **microalga** [JDRM17]. **microbe** [LKS<sup>+13</sup>]. **microbial** [JSAB<sup>+19</sup>]. **microbiome** [DCZ<sup>+17</sup>]. **microbiota** [JKL<sup>+13</sup>, KOB<sup>+17</sup>, STIG17]. **Micrococcus** [dJDAVRGM<sup>+18</sup>]. **Microcotylidae** [TAQ<sup>+10</sup>]. **microcystin** [FBK<sup>+16</sup>]. **microcystin-LR** [FBK<sup>+16</sup>]. **microcystins** [KPM<sup>+11</sup>]. **microdilution** [GCW17, YVM<sup>+14</sup>]. **microdissection** [WNLF<sup>+12</sup>]. **Microencapsulation** [GCNB16]. **microflora** [BT14]. **microparasites** [BHT<sup>+17</sup>]. **Micropogonias** [MPM16]. **microporidian** [XLZ<sup>+17</sup>]. **Micropterus** [CGAS19, PBBG19, ZLX<sup>+19</sup>]. **microsatellite** [DCMM13]. **Microscopic** [SMS<sup>+19</sup>, BCM<sup>+17</sup>, LWMT10]. **microscopy** [CGCAH12]. **Microsporidia** [FYO<sup>+11</sup>]. **Microsporidia** [ATP<sup>+16</sup>, KSAB<sup>+14</sup>, PG16]. **microsporidian** [ACSB<sup>+19</sup>, DML<sup>+16</sup>, DCL<sup>+17</sup>, MVM<sup>+18</sup>, MRSC13, MKH<sup>+11</sup>, ZCC18]. **Microsporidians** [LRAP17]. **microsporidiosis** [XLZ<sup>+17</sup>]. **middle**

[SMS<sup>+</sup>10]. **Midichloriaceae** [CSS<sup>+</sup>16]. **migrating** [BHT<sup>+</sup>17, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KRFT14]. **migratory** [HGH<sup>+</sup>18]. **Mikrogeophagus** [LFSZ18]. **Miller** [RAM<sup>+</sup>17]. **Milne** [NRMS14, ZB12, CG11, SQC<sup>+</sup>14]. **mimic** [LRB<sup>+</sup>17]. **mimicus** [ZZC<sup>+</sup>17]. **Minchinia** [RAVC18]. **mineralization** [PC17]. **mineralized** [TPD<sup>+</sup>19]. **minibicornis** [BLP10]. **Minimal** [TRS19, OM10]. **minimum** [YVM<sup>+</sup>14]. **minnow** [AHHR<sup>+</sup>10, CXW<sup>+</sup>19, JBG11, MGN<sup>+</sup>16, WBD<sup>+</sup>10b]. **minnows** [PPF<sup>+</sup>12]. **minor** [PJZB19]. **minus** [DT16]. **miR** [FBK<sup>+</sup>16]. **miR-122-5p** [FBK<sup>+</sup>16]. **Misgurnus** [ZWL<sup>+</sup>16]. **Mississippi** [LEM<sup>+</sup>19]. **Mitchell** [FHD13, PHvdH12, SJT14, SGQ<sup>+</sup>15]. **Mitchill** [Ano12c, BB11, CBFM16, DGS<sup>+</sup>14, GRP<sup>+</sup>15, KF10b, KHLL16, MMD<sup>+</sup>12, MF12, OEG<sup>+</sup>13, SAD<sup>+</sup>12, VBL<sup>+</sup>16]. **mitochondrial** [CXW<sup>+</sup>19, YEK<sup>+</sup>17]. **mitochondrial-targeting** [CXW<sup>+</sup>19]. **mitter** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, SCS<sup>+</sup>12, ZB12]. **Mixed** [FSV<sup>+</sup>14, ESA<sup>+</sup>10, KBD13]. **model** [CAJD<sup>+</sup>18, CKvGJB17, EPCS18, GFM<sup>+</sup>11, KSAB<sup>+</sup>14, MSC<sup>+</sup>17, NSS<sup>+</sup>17, RAM<sup>+</sup>19, SCF<sup>+</sup>13, SZM<sup>+</sup>15, SSG<sup>+</sup>19, VMBGIC19, dOAPLá<sup>+</sup>17]. **Modelling** [SSA13, Gis18, GCGR13, RHTC19b, SDI<sup>+</sup>18]. **models** [BVK<sup>+</sup>16, Buc12, PYSS19]. **modified** [SLKE10]. **modulated** [KPM<sup>+</sup>11]. **modulates** [FVAVMGE18, GRT12, SPCR<sup>+</sup>19]. **Modulation** [BSB<sup>+</sup>18, PBC15]. **Moebius** [OBR<sup>+</sup>14]. **Molecular** [BLL<sup>+</sup>17, BCM<sup>+</sup>17, CSS<sup>+</sup>16, DTM<sup>+</sup>10, EEMCEGSP16, FMA<sup>+</sup>19, HCW<sup>+</sup>16, KYK<sup>+</sup>12, KDA<sup>+</sup>18, LYKN18, NSE<sup>+</sup>17, NYRS12, PLC<sup>+</sup>19b, PPE<sup>+</sup>18, RMSH09, SHKF16, SPKS17, SRD<sup>+</sup>16, YYF<sup>+</sup>10, ZQB<sup>+</sup>11, BCL<sup>+</sup>19, DPTFC10, EAM<sup>+</sup>13, GAC10, IAR<sup>+</sup>10, LLC<sup>+</sup>11, LRB<sup>+</sup>17, MFS<sup>+</sup>17, MFES18, OBR<sup>+</sup>14, PHvdH12, PAZ18, RHZA<sup>+</sup>16, RCGGM15, SCD19, STIG17, SSO<sup>+</sup>14, VDH19, VGP<sup>+</sup>18, YLW<sup>+</sup>14, ZCC<sup>+</sup>15]. **molluscan** [MMG<sup>+</sup>11]. **molluscs** [VGP<sup>+</sup>18]. **monitored** [BKD17]. **Monitoring** [SNK<sup>+</sup>19, AGB<sup>+</sup>19, EWRH13, SFL<sup>+</sup>16]. **monoclonal** [CCLL16, HLC<sup>+</sup>15, KJW<sup>+</sup>17, LCR<sup>+</sup>10, PSK<sup>+</sup>13]. **monodon** [RDN<sup>+</sup>12, CWW<sup>+</sup>18, DCMM13, DBM<sup>+</sup>14, FSO<sup>+</sup>10, JJS<sup>+</sup>12, MCO11, PSK<sup>+</sup>13, RDN<sup>+</sup>12, SMS<sup>+</sup>10, STS<sup>+</sup>15, SRSF10]. **Monogenea** [HSHC<sup>+</sup>16, TAQ<sup>+</sup>10, YEK<sup>+</sup>17]. **monogenean** [FHD13, HKG<sup>+</sup>15, MWS17, PHVM13, TGJCH15, VDO<sup>+</sup>18b]. **monogeneans** [ANB<sup>+</sup>19, VDO<sup>+</sup>18a]. **monophosphate** [VSS17]. **monstrosa** [DRdS<sup>+</sup>10]. **moray** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **morbidity** [HCCM12]. **Moreau** [LPVGL<sup>+</sup>10]. **morhua** [BSWS11, BMGS17, BK12, FvdMF<sup>+</sup>18, GIW<sup>+</sup>11, GGGM14, HLHS11, HKD<sup>+</sup>10, HFKF17, MVM<sup>+</sup>18, MBB12, OBD10, PG16, RBWR<sup>+</sup>15, Sam10, ZCP12]. **moribund** [OBR<sup>+</sup>14, SWE<sup>+</sup>19]. **moringa** [CHF<sup>+</sup>12]. **Moritella** [BGG11, ESBE18]. **Morone** [DBS12, SBM<sup>+</sup>11]. **Moronidae** [RRC<sup>+</sup>17]. **morphogenesis** [GFS<sup>+</sup>14, HFT<sup>+</sup>12, MBT<sup>+</sup>17]. **Morphological** [BOH<sup>+</sup>12, PMBM13, RGMGG<sup>+</sup>18, TPD<sup>+</sup>19, VMBGIC19, WNMK<sup>+</sup>16, BC11, SDZN19]. **Morphology**

[NHM<sup>+</sup>10, YMBE13, CHWM<sup>+</sup>19, KSM<sup>+</sup>17, KOS<sup>+</sup>10, YLW<sup>+</sup>14]. **morphometric** [BC11]. **morphometry** [SMS<sup>+</sup>18]. **Morphopathological** [VFB<sup>+</sup>12]. **morphotypes** [DSLR16]. **mortalities** [AHB<sup>+</sup>17, GJM<sup>+</sup>15, KCD<sup>+</sup>14, MBB12, NFF<sup>+</sup>17, RHZA<sup>+</sup>16, SBM<sup>+</sup>11, VJWC<sup>+</sup>18, ZSZF16]. **Mortality** [ABM<sup>+</sup>15, CGP<sup>+</sup>19, DABO<sup>+</sup>17, SDM<sup>+</sup>19, SKJ13, SRT<sup>+</sup>14, TJB<sup>+</sup>15, BPF<sup>+</sup>18, BRMG13, BGC<sup>+</sup>17, BPK<sup>+</sup>17, BVT<sup>+</sup>18, BVL<sup>+</sup>18, CRAG<sup>+</sup>12, DTJ<sup>+</sup>17, FSC<sup>+</sup>16, HCCM12, HBB14, HB12, JCN<sup>+</sup>13, JQK14, JJV<sup>+</sup>15, KHLL16, KAF<sup>+</sup>19, KRFT14, LEM<sup>+</sup>19, LXL<sup>+</sup>18, LF16, MLMR16, MMG<sup>+</sup>11, MMW<sup>+</sup>15, NNCLGC<sup>+</sup>11, PTM<sup>+</sup>19, RHB<sup>+</sup>15, SPP<sup>+</sup>18, SKGE13, TMC<sup>+</sup>12, XQS<sup>+</sup>15, JCN<sup>+</sup>14]. **MOS** [TMC<sup>+</sup>12]. **mosquito** [APG<sup>+</sup>11]. **mossambica** [MWS17]. **mossambicus** [AZSSZZ13, NMV<sup>+</sup>19, TvWO<sup>+</sup>16, vD14]. **most** [VCOD17]. **motile** [DSJA18, PAZ18, TALA11]. **motility** [DSSB19]. **moultling** [TTL<sup>+</sup>16]. **mounds** [ARL<sup>+</sup>17]. **mouthrot** [FSV<sup>+</sup>18]. **moved** [GMN12]. **movements** [GWM12, TWJP10, WMM<sup>+</sup>16]. **Mozambique** [DAO19, TvWO<sup>+</sup>16, vD14]. **mRNA** [IPW<sup>+</sup>13, RBM<sup>+</sup>16, SJSA<sup>+</sup>14]. **MS** [PSVK<sup>+</sup>18, ZCJ<sup>+</sup>18]. **Mucoadhesive** [dSCBdS<sup>+</sup>16]. **mucosa** [VMBGIC19]. **Mucosal** [RBL<sup>+</sup>11, JSAH<sup>+</sup>18, PDLW17]. **mucous** [BGD<sup>+</sup>17, DPC<sup>+</sup>10, LDÁM14, PSR<sup>+</sup>11, PPK<sup>+</sup>13]. **mucus** [FMM<sup>+</sup>19, GBSF12, JSJR<sup>+</sup>19, MMS<sup>+</sup>16, PJU<sup>+</sup>13, SLPB18, VCN<sup>+</sup>10]. **mud** [LQY11]. **Müeller** [CDM<sup>+</sup>16]. **Mugil** [MVWS13, PMBM13]. **mugilid** [DCG18]. **Müller** [HLHS11]. **mullet** [PMBM13, VPS<sup>+</sup>14]. **mullets** [APP<sup>+</sup>17]. **multi** [LCZ<sup>+</sup>18, RKK<sup>+</sup>19]. **multi-drug-resistant** [RKK<sup>+</sup>19]. **multi-organ** [LCZ<sup>+</sup>18]. **Multicentric** [DD15]. **multifactorial** [GTT<sup>+</sup>17]. **multifiliis** [AJLK<sup>+</sup>18, AMRHM18, BSD<sup>+</sup>18a, CKvGJB17, vGJHS<sup>+</sup>11, vGJKR<sup>+</sup>17, XKBC12, XZZ16, YYW<sup>+</sup>14]. **Multilocus** [ACAS14, ISCF<sup>+</sup>19, NMM<sup>+</sup>18, RDW18, WMD<sup>+</sup>18, VJWC<sup>+</sup>18]. **Multiple** [OBFR12, TSK<sup>+</sup>19, VPCM19, AH16, JQK14, ZDWH18]. **Multiplex** [LGS19, HRL15, LML<sup>+</sup>13, LFH<sup>+</sup>11, NMM<sup>+</sup>18, TSK<sup>+</sup>19, THW<sup>+</sup>12, VLVS<sup>+</sup>16]. **multiplication** [TKS<sup>+</sup>18]. **multispecies** [SFF<sup>+</sup>17]. **multivalent** [ZXW<sup>+</sup>12]. **Multivalvulida** [TOK<sup>+</sup>16]. **multiyear** [GM11]. **Muraena** [CHF<sup>+</sup>12]. **Murray** [FHD13, SJT14]. **muscle** [BCBS<sup>+</sup>13, BHO<sup>+</sup>19, FGJ<sup>+</sup>10, GRT12, LAN<sup>+</sup>14, LWZ<sup>+</sup>18, WHR<sup>+</sup>18, ZDWH18]. **muskellunge** [Ano12c, KF10b, MF12]. **mussel** [BRL<sup>+</sup>13, HBH<sup>+</sup>19]. **mussels** [GKO<sup>+</sup>14]. **Mustelus** [MS16]. **mutagenesis** [MSG<sup>+</sup>18]. **mutants** [EAN<sup>+</sup>18, GTGCM19, HBVB16, OFA11, VSS17, WBF<sup>+</sup>10]. **Mya** [MMD16]. **Mycobacteria** [KZJ<sup>+</sup>17, SKB10, MSK<sup>+</sup>12, NHM<sup>+</sup>10]. **Mycobacterial** [DIH<sup>+</sup>16, FSV<sup>+</sup>14, PSS17, ZHFC11]. **Mycobacteriosis** [APP<sup>+</sup>17, AFA<sup>+</sup>12, ACM<sup>+</sup>14, CDW17, CSSWK10, EDSL11, FFLC17, LRC<sup>+</sup>18, ONGQ<sup>+</sup>14, SFF<sup>+</sup>17, VPS<sup>+</sup>14, ZCP12]. **Mycobacterium** [APP<sup>+</sup>17, ACM<sup>+</sup>14, BVG<sup>+</sup>10, CBW19, CSSWK10, JK12, LRC<sup>+</sup>18, PBW<sup>+</sup>18, RFA<sup>+</sup>14, SMF<sup>+</sup>10, Sla14, SMJ<sup>+</sup>14, ZNHC11a, ZNHC11b]. **mycoides** [OSAA18]. **mycosis** [ŘKH18]. **myeloperoxidase** [BSSB18, YK13]. **Myers** [LFSZ18]. **mykiss**

[ASA10, ASHZ<sup>+12</sup>, AOA13, AHHR<sup>+10</sup>, AJLC<sup>+16</sup>, ABT<sup>+14</sup>, AA10, AMA11, BSW17, BSPS<sup>+18</sup>, BCLM<sup>+19</sup>, BHA<sup>+11</sup>, BE19, BA14, BLFC12, CSS<sup>+16</sup>, CHAB10, CMH<sup>+17</sup>, CPB<sup>+15</sup>, CLS<sup>+15</sup>, DS10, DPTFC10, DPTCF10, DMP10, DJR<sup>+19</sup>, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GCNB16, GTH11, GPFGAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, JKL<sup>+13</sup>, JDH<sup>+18</sup>, JML19, vGJHS<sup>+11</sup>, vGJKR<sup>+17</sup>, KSM<sup>+17</sup>, LPA<sup>+10</sup>, LLS<sup>+11</sup>, MBOC19, MNF<sup>+15</sup>, MSC<sup>+17</sup>, MCSM17, MLEM16, MTLP<sup>+18b</sup>, NOV<sup>+11</sup>, NDA10, OP14, OBFR12, OBD<sup>+11</sup>, OSAA18, OLT<sup>+10</sup>, PDLW17, PSBG<sup>+11</sup>, PLCC11, QPB<sup>+16</sup>, RSB13, ŘKH16, RCGGM15, RHB<sup>+15</sup>, SHJ<sup>+12</sup>, SPCR<sup>+19</sup>, SCR<sup>+15</sup>, SKJ13, SON<sup>+18</sup>, VSS17, XKB12, YDO<sup>+16</sup>]. **Myliobatiformes** [BB11]. **myocardial** [WNLF<sup>+12</sup>]. **myocarditis** [BWNS<sup>+11</sup>, JNS<sup>+19</sup>, SRM<sup>+18</sup>, SNK<sup>+19</sup>, TB12, TCM<sup>+19</sup>, WNSAL12, WNAF<sup>+13</sup>, WNAJ<sup>+16</sup>]. **myonecrosis** [HMV<sup>+17</sup>, YLSW14]. **myopathy** [BMT<sup>+15</sup>]. **Mytilus** [BRL<sup>+13</sup>]. **myxidirosis** [MBD16]. **Myxobolidae** [LRB<sup>+17</sup>, RKPG16, SGQ<sup>+15</sup>]. **Myxobolus** [FCJH19, HAP<sup>+10</sup>, ME12, MKKM15, SBW<sup>+18</sup>, SGQ<sup>+15</sup>, YLW<sup>+14</sup>, YYF<sup>+10</sup>, ZWLG10, ZYW<sup>+10</sup>]. **myxoma** [KHS11]. **myxosporea** [YLW<sup>+14</sup>, CB13, ERÁpSB14, JNN<sup>+11</sup>, LJHG14, LXL<sup>+18</sup>, RRC<sup>+17</sup>, SGQ<sup>+15</sup>, SSJ<sup>+19</sup>, YMBe13]. **myxosporean** [KOI<sup>+14</sup>]. **Myxozoa** [MJ17, ATP<sup>+16</sup>, CB13, ERÁpSB14, JNN<sup>+11</sup>, KAESEM13, LXL<sup>+18</sup>, MSBB<sup>+16</sup>, ME12, SSJ<sup>+19</sup>, TOK<sup>+16</sup>, YMBe13]. **myxozoan** [EPCSBP18, SBW<sup>+18</sup>]. **myxozoans** [DCG18]. **Myxus** [MVWS13]. **Myzobdella** [PBBG19].

**n** [LJHG14, RRC<sup>+17</sup>, SDZN19, YMBe13, ZWLG10, dSdAdS<sup>+19</sup>]. **naïve** [BMK17]. **namaycush** [CMR<sup>+16</sup>]. **nanobubbles** [ITKH18]. **Nanoemulsion** [VDO<sup>+18a</sup>, VDO<sup>+18b</sup>]. **nanoencapsulated** [BSD<sup>+18c</sup>]. **nanoparticles** [ASHZ<sup>+12</sup>, dSCBdS<sup>+16</sup>, LLDB13, SSHEM11]. **Nanophyetus** [STF<sup>+15</sup>]. **National** [HGPD11, HOHG13, NSC<sup>+15</sup>]. **native** [ÇOÇ<sup>+16</sup>, GOM<sup>+19</sup>, MKKM15, RBR19, SLPB18]. **native-subunit** [ÇOÇ<sup>+16</sup>]. **nattectin** [LSA<sup>+15</sup>]. **nattereri** [EDSL11]. **Natural** [ATP<sup>+17</sup>, BFFA<sup>+12</sup>, BLdA<sup>+18</sup>, BRB<sup>+12</sup>, BHO<sup>+19</sup>, CCME16, CCMA<sup>+17</sup>, DMB<sup>+16</sup>, EA18, GRF14, KHC<sup>+18</sup>, KSA<sup>+10</sup>, LSC<sup>+14</sup>, MDF<sup>+17</sup>, OMO<sup>+15</sup>, SBH<sup>+16</sup>, SMJ<sup>+14</sup>]. **naturally** [AOAH13, BSD<sup>+18a</sup>, DMB<sup>+19</sup>, FFLC17, HGB<sup>+11</sup>, SSV<sup>+17</sup>]. **nauplii** [AHH16, TNK12]. **NB2011** [ZWG<sup>+17</sup>]. **Neagh** [MFES18]. **nearby** [MKI<sup>+15</sup>]. **nebulosus** [PHR14]. **necator** [CKJ<sup>+14</sup>]. **necrosis** [ASHZ<sup>+12</sup>, AOA13, BLdA<sup>+18</sup>, BRMG13, Bin14, BPK<sup>+17</sup>, BAH<sup>+18</sup>, CCLGRM<sup>+17</sup>, CGW<sup>+19</sup>, CGG<sup>+10</sup>, DD18, DML<sup>+16</sup>, ECP<sup>+10</sup>, EBM<sup>+18</sup>, FE11, GFS<sup>+14</sup>, HSC<sup>+16</sup>, HKD<sup>+10</sup>, JHW17, JFWH19, JOF<sup>+19</sup>, JSK<sup>+10</sup>, JMS13, JJSJ15, KKK<sup>+18</sup>, KTN<sup>+16</sup>, KYB<sup>+15</sup>, KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LASRA<sup>+19</sup>, LYL<sup>+18</sup>, LHW<sup>+15a</sup>, LCZ<sup>+18</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, LLL<sup>+13</sup>, MBOC19, MRN<sup>+19</sup>, MSI<sup>+15</sup>, MNM<sup>+18</sup>, MNM<sup>+19</sup>, MMH10, MMNL14, NPGA<sup>+19</sup>, NB10, OTN<sup>+12</sup>, OKS<sup>+13</sup>, OOO<sup>+11</sup>, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, RWTB17, RMSH09, SJDC<sup>+13</sup>, SWD<sup>+14</sup>, SSO<sup>+14</sup>,

TIK<sup>+14a</sup>, TDS<sup>+19</sup>, VCOD17, XJL<sup>+19</sup>, XJL<sup>+15</sup>, YHY<sup>+16</sup>, ZJDL18, ZLN<sup>+17</sup>, ZDWH18]. **necrosis-induced** [BRMG13]. **necrotic** [DCV<sup>+14</sup>]. **needle** [TMWV14]. **negative** [THW<sup>+12</sup>]. **negatively** [BGRB14]. **Nematoda** [MWRSK17, MGH<sup>+14</sup>, MPM16, RGMGG<sup>+18</sup>, SDZN19, SBK<sup>+13</sup>].  
**Nematode**  
[LZGZ16, BA13, DMD<sup>+17</sup>, FDST16, LFP<sup>+11a</sup>, LFP<sup>+11b</sup>, MWRSK17]. **nematodes** [Buc12]. **Nemeczek** [ZWLG10]. **Neobenedenia** [HSHC<sup>+16</sup>, MSCH14, RBAT<sup>+17</sup>, TGJCH15]. **Neoceratodus** [SFF<sup>+17</sup>]. **Neoechinorhynchidae** [OMB<sup>+19</sup>]. **Neoechinorhynchus** [OMB<sup>+19</sup>]. **neomycin** [ZCJ<sup>+18</sup>]. **neon** [SMS<sup>+19</sup>]. **Neoparamoeba** [CBLN13, CAS<sup>+18</sup>, CONN10, FGR<sup>+12</sup>, LTC16, LTC17, MCCN14, NBJ10, WNO<sup>+18</sup>]. **Neoplasia** [GMP<sup>+11</sup>, SGR<sup>+18</sup>, BCW<sup>+15</sup>, DIVC16, MMMD16, MMD16, RTM<sup>+15</sup>, SCZM19]. **neoplasm** [BWS<sup>+18</sup>]. **neoplastic** [HKF<sup>+16</sup>]. **Neotropical** [VDO<sup>+18b</sup>]. **Nephroblastoma** [RHSM<sup>+18b</sup>]. **nephrocalcinosis** [MVWS13]. **nephrolith** [LKT<sup>+13</sup>]. **nephrolithiasis** [LKT<sup>+13</sup>]. **Nereididae** [HVVV15]. **nerka** [BLP10, GMC<sup>+16a</sup>, LGJ19, TVK<sup>+19</sup>]. **nervous** [BRMG13, Bin14, CGG<sup>+10</sup>, FYO<sup>+11</sup>, HKD<sup>+10</sup>, JHW17, KKK<sup>+18</sup>, LYI<sup>+18</sup>, LHW<sup>+15a</sup>, MRN<sup>+19</sup>, MSI<sup>+15</sup>, OTN<sup>+12</sup>, OKS<sup>+13</sup>, TDS<sup>+19</sup>, XJL<sup>+19</sup>, ZLN<sup>+17</sup>, JFWH19]. **nested** [AOAH13]. **nested-PCR** [AOAH13]. **net** [TJR<sup>+18</sup>]. **Netherlands** [HSC<sup>+16</sup>]. **nettle** [AA10]. **network** [BSV<sup>+18</sup>]. **networks** [SVY<sup>+14</sup>]. **neural** [FvdMF<sup>+18</sup>, SSK17, WKW13]. **neurobehavioural** [SSK17]. **neurological** [SON<sup>+18</sup>]. **neurophila** [CB13]. **neurophilia** [CXK16, SSK17]. **neurophilus** [SGQ<sup>+15</sup>]. **neutralization** [CLC<sup>+17</sup>, GRF14]. **neutralizing** [Ano12c, MF12]. **neutrophil** [JBGP11]. **newborn** [BQP12]. **newly** [AZSSZZ13]. **next** [DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **next-generation** [DWL<sup>+17</sup>, LMM<sup>+16</sup>]. **Nigella** [MA16]. **nigromaculatus** [BCT<sup>+17</sup>, GPWF19, SMS<sup>+19</sup>]. **Niimi** [LML12]. **Nile** [ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, CCHL13, CLLF14, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, NLF11, NYRS12, PYSS19, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SKGE13, SPS<sup>+19</sup>, WSA<sup>+18</sup>, XXL<sup>+19</sup>, YSHG18, ZKL<sup>+19</sup>]. **niloticus** [AZSSZZ13, ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, CCHL13, CLLF14, CZL<sup>+19</sup>, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, FKB<sup>+14</sup>, KAS<sup>+18</sup>, KTP<sup>+15</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, NLF11, NYRS12, PYSS19, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SL15, SKGE13, SPS<sup>+19</sup>, WSA<sup>+18</sup>, YSHG18, ZKL<sup>+19</sup>]. **nippонense** [ZSZF16]. **nitrate** [SSSP18]. **nitric** [YK13]. **nitrite** [MMD<sup>+12</sup>]. **nitrite-induced** [MMD<sup>+12</sup>]. **nitrogen** [BCW<sup>+15</sup>]. **NKEF** [BRB<sup>+12</sup>]. **nkomiensis** [DAO19]. **NNV** [OTN<sup>+12</sup>, OKS<sup>+13</sup>]. **noatunensis** [CDM<sup>+13</sup>, KBTMH<sup>+16</sup>, PLC<sup>+19b</sup>, SKGE13, ATP<sup>+17</sup>, GIW<sup>+11</sup>, SPKS17]. **noble** [OSC<sup>+14</sup>]. **nocardia** [KPK<sup>+18</sup>, CXW<sup>+19</sup>, CCM<sup>+11</sup>, DSMC17, KLD<sup>+18</sup>, WCL<sup>+19</sup>]. **nocardiosis** [DSMC17, EKS<sup>+13</sup>, MYWC18]. **noctiluca** [MLMR16]. **NOD** [ZGY<sup>+18</sup>]. **noda** [MPJ<sup>+15</sup>]. **nodavirus** [FMT<sup>+14</sup>, HO13, IBFL19, LYKN18, RSGB<sup>+14</sup>, WCW16a]. **Nodular**

[QPB<sup>+16</sup>, DT16, LvD18, PGF<sup>+19</sup>]. **Non**  
 [CSCCA14, HO13, LMM<sup>+15</sup>, BMT<sup>+15</sup>, CMS<sup>+19</sup>, DZC<sup>+16</sup>, DLCF13,  
 DSLR16, FCM<sup>+19</sup>, GCNB18, GCM<sup>+18b</sup>, HRL15, HBVB16, LJGRI<sup>+10</sup>,  
 MSS<sup>+17a</sup>, MTAB15, RBR19, TALA11, TDLT<sup>+16</sup>, ZZC<sup>+17</sup>].  
**non-destructive** [BMT<sup>+15</sup>, CMS<sup>+19</sup>, LJGRI<sup>+10</sup>]. **Non-immune-related**  
 [LMM<sup>+15</sup>]. **non-invasive** [GCNB18]. **non-lethal** [FCM<sup>+19</sup>, MTAB15].  
**non-luminescent** [HBVB16]. **non-motile** [TALA11]. **non-native** [RBR19].  
**non-O139** [ZZC<sup>+17</sup>]. **non-pathogenic** [TDLT<sup>+16</sup>]. **Non-permissive**  
 [HO13]. **non-probed** [HRL15]. **non-respiratory** [GCM<sup>+18b</sup>]. **non-rhizoid**  
 [DSLR16]. **non-salmonid** [DLCF13]. **Non-specific** [CSCCA14]. **non-target**  
 [MSS<sup>+17a</sup>]. **non-virulent** [DZC<sup>+16</sup>]. **norepinephrine** [DSSB19].  
**Normandy** [BVL<sup>+18</sup>]. **North**  
 [GL18, EEMCEGSP16, RPGCIG17, RBR19, SBH<sup>+16</sup>, Tre12, DKBS17,  
 EKT<sup>+11</sup>, KPKP10, KWD<sup>+16</sup>, VCS<sup>+19</sup>, VDD<sup>+18</sup>, WMF14]. **north-east**  
 [RBR19]. **north-west** [SBH<sup>+16</sup>]. **north-western**  
 [EEMCEGSP16, RPGCIG17]. **Northeast** [STF<sup>+15</sup>]. **northern**  
 [BB11, BFFA<sup>+12</sup>, FSM<sup>+16</sup>, JMS13, KAST17, MIO<sup>+18</sup>, MMWK19, NJK<sup>+17</sup>,  
 Reh13, DIH<sup>+16</sup>, VCS<sup>+19</sup>]. **Northwest** [GCS<sup>+18</sup>]. **northwestern** [BOH<sup>+12</sup>].  
**Norway** [ATP<sup>+16</sup>, AGR<sup>+16</sup>, Ano10c, GFO<sup>+13</sup>, GGMG18b, GMG<sup>+19</sup>,  
 HKD<sup>+10</sup>, HST<sup>+13</sup>, HJT<sup>+16</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JNN<sup>+11</sup>, JMS13, KAF<sup>+19</sup>,  
 MIO<sup>+18</sup>, MMWK19, NOV<sup>+11</sup>, SNK<sup>+19</sup>, TJB<sup>+15</sup>]. **Norwegian** [ATM<sup>+10</sup>,  
 HBS<sup>+14</sup>, JJB15, MJ17, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TES16, WNAF<sup>+13</sup>].  
**notata** [OBR<sup>+14</sup>]. **Notropis** [LRB<sup>+17</sup>, MGN<sup>+16</sup>, HAP<sup>+10</sup>]. **nov**  
 [CPP14, SPV<sup>+18</sup>, VDH19]. **Nova** [SCD19, DSMC17]. **Novel** [PSR<sup>+11</sup>,  
 TALA11, BTC<sup>+17</sup>, BVL<sup>+18</sup>, CCW<sup>+15</sup>, CAJD<sup>+18</sup>, DPMK12, DLLB<sup>+18</sup>,  
 DXX<sup>+15</sup>, DKBS17, FFLC17, FNISE12, GFS<sup>+14</sup>, HHX<sup>+15</sup>, JKS<sup>+13</sup>, LDA<sup>+19</sup>,  
 MFES18, PWW19, PKLH19, PPK<sup>+13</sup>, RAM<sup>+18</sup>, RRO<sup>+13</sup>, RSF<sup>+17</sup>,  
 SPTDEE<sup>+15</sup>, VLVS<sup>+16</sup>, WZL13, WZQ<sup>+16</sup>, WCW<sup>+16b</sup>, YSV<sup>+13</sup>, YLX<sup>+19a</sup>].  
**novemaculeata** [JFWH19]. **NsHLP** [WCL<sup>+19</sup>]. **nuclear**  
[DMD<sup>+17</sup>, TIK<sup>+14b</sup>]. **nucleophila** [ACSB<sup>+19</sup>]. **Nucleospora** [ATP<sup>+16</sup>].  
**Nucleotide** [ZGY<sup>+18</sup>, CPB<sup>+15</sup>, FCL<sup>+19</sup>, IBFL19]. **Nucleotide-binding**  
[ZGY<sup>+18</sup>]. **number** [ACAS14, GLK<sup>+16</sup>, HZP<sup>+12</sup>, RWTB17]. **numbers**  
[HZP<sup>+12</sup>, PFC<sup>+13</sup>, TES16]. **nutans** [HDC18]. **nutrient** [BCLM<sup>+19</sup>].  
**Nutrition** [OT12, JHRW17]. **nutritional** [HWO<sup>+17</sup>]. **NW**  
[DIVC16, RAVC18]. **Nyeri** [MNM<sup>+19</sup>]. **NZ** [BMH<sup>+19</sup>]. **NZ-RLO**  
[BMH<sup>+19</sup>].  
  
**O1** [SON<sup>+18</sup>, ZZC<sup>+17</sup>]. **O1/** [ZZC<sup>+17</sup>]. **O139** [ZZC<sup>+17</sup>]. **O2b**  
[AHTCA<sup>+17</sup>]. **obese** [TvWO<sup>+16</sup>]. **Obituary** [WR10]. **object** [GAVC16].  
**oblongum** [SAD<sup>+12</sup>]. **observation** [RSR<sup>+18</sup>]. **observations**  
[ADR11, BQP12, BMA13, SHW<sup>+11</sup>]. **observe** [GTH11]. **obtained**  
[AGFG19, JMS13, OGI<sup>+18</sup>]. **Obtainment** [PVIM18]. **Occurrence**  
[BCL<sup>+19</sup>, LKT<sup>+13</sup>, PGF<sup>+19</sup>, RAM<sup>+18</sup>, HMV<sup>+17</sup>, RSB13, RSF<sup>+17</sup>].  
**occurring** [ADR11, DMB<sup>+19</sup>]. **Ocean**

[ASW16, CBM<sup>+</sup>17, BOH<sup>+</sup>12, CNN<sup>+</sup>10, STF<sup>+</sup>15, VCS<sup>+</sup>19]. **ocellaris** [SBK<sup>+</sup>15]. **ocellatum** [JK12, MSS<sup>+</sup>17b, YB17]. **ocellatus** [RHSM<sup>+</sup>18a]. **Ochroconis** [SAS<sup>+</sup>19]. **Ocular** [EDSL11, PAM<sup>+</sup>19, PSS17, CHF<sup>+</sup>12]. **oedema** [PTM<sup>+</sup>19, SEM18]. **off** [BA13, BMGS17, SBH<sup>+</sup>16, SEK<sup>+</sup>16]. **officinalis** [VDO<sup>+</sup>18b, ZTF<sup>+</sup>10]. **offshore** [CNN<sup>+</sup>10]. **Ogcocephalidae** [LZGZ16]. **oil** [BSD<sup>+</sup>18c, CLS<sup>+</sup>15, ELI<sup>+</sup>17, GMP<sup>+</sup>11, MA16, VDO<sup>+</sup>18a]. **oil-adjuvanted** [CLS<sup>+</sup>15]. **oil-based** [ELI<sup>+</sup>17]. **oils** [VGI<sup>+</sup>16]. **old** [WGL17]. **Oldewage** [DAO19]. **oleoresin** [VDO<sup>+</sup>18b]. **olfactory** [LP17]. **Olifants** [HGPD11, HOHG13, HWO<sup>+</sup>17]. **oligochaetes** [ME12]. **oligomerization** [ZGY<sup>+</sup>18]. **oligosaccharides** [TMC<sup>+</sup>12]. **olivaceus** [HKK<sup>+</sup>11b, JKC<sup>+</sup>11, LKS<sup>+</sup>13, LPC<sup>+</sup>18, LWZ<sup>+</sup>18, SSJ<sup>+</sup>19]. **olive** [HKK<sup>+</sup>11b, JKC<sup>+</sup>11, LKS<sup>+</sup>13, LPC<sup>+</sup>18, SMD<sup>+</sup>12, SSJ<sup>+</sup>19]. **olseni** [FBVC16]. **omp85** [KREM14]. **OmpU** [CLWJ13]. **Onchorynchus** [DMP10]. **Oncorhynchus**  
 [ASA10, ASHZ<sup>+</sup>12, AOAII13, AHHR<sup>+</sup>10, AJLC<sup>+</sup>16, ABT<sup>+</sup>14, AHTCA<sup>+</sup>17, AA10, AMA11, BSW17, BSPS<sup>+</sup>18, BCLM<sup>+</sup>19, BHT<sup>+</sup>17, BHA<sup>+</sup>11, BE19, BA14, BPPKJ10, BLP10, BMH<sup>+</sup>19, BLFC12, CSS<sup>+</sup>16, CHAB10, CMH<sup>+</sup>17, CPB<sup>+</sup>15, CLS<sup>+</sup>15, DS10, DWP<sup>+</sup>19, DPD<sup>+</sup>18, DPTFC10, DPTCF10, DJR<sup>+</sup>19, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GMC<sup>+</sup>16a, GCNB16, GBO<sup>+</sup>18, GTH11, GPFGAG19, GDW<sup>+</sup>15, GMC<sup>+</sup>16b, HKBD15a, HKBD15b, HJN<sup>+</sup>19, IOO15, JKL<sup>+</sup>13, JDH<sup>+</sup>18, JML19, vGJHS<sup>+</sup>11, vGJKR<sup>+</sup>17, KSM<sup>+</sup>17, KBE<sup>+</sup>14, LPA<sup>+</sup>10, LLS<sup>+</sup>11, LST<sup>+</sup>12, LF16, LF18, LGJ19, LWMT10, MBOC19, MNF<sup>+</sup>15, MSC<sup>+</sup>17, MCSM17, MLEM16, MTLP<sup>+</sup>18b, MKKM15, NOV<sup>+</sup>11, NDA10, OP14, OBFR12, OBD<sup>+</sup>11, OSAA18, OLT<sup>+</sup>10, PDLW17, PSBG<sup>+</sup>11, PLCC11, PMPG<sup>+</sup>16, PPE<sup>+</sup>18, QPB<sup>+</sup>16, RSB13, RKH16, RCGGM15, RHB<sup>+</sup>15, SMJ<sup>+</sup>12, STF<sup>+</sup>15, SHJ<sup>+</sup>12, SPCR<sup>+</sup>19, SCR<sup>+</sup>15, SKJ13, SON<sup>+</sup>18, TVK<sup>+</sup>19, VSS17, XKB12, YDO<sup>+</sup>16]. **online** [MPJ<sup>+</sup>15]. **onset** [GMN12]. **Ontario** [KHLL16]. **ontogeny** [BND<sup>+</sup>17, FPK<sup>+</sup>17]. **oomycetes** [SSSP18]. **oophoritis** [BA13]. **opacity** [PAM<sup>+</sup>19]. **opercular** [BC11, TPD<sup>+</sup>19]. **operon** [DS10]. **Ophiocephalus** [LL12]. **Oplegnathus** [JJV<sup>+</sup>15]. **optimal** [RHTC19b, dOAPLá<sup>+</sup>17]. **Optimization** [CMS<sup>+</sup>17]. **Optimized** [LGD<sup>+</sup>17, SCK13]. **Opuntia** [BAH<sup>+</sup>16]. **Oral** [ASHZ<sup>+</sup>12, SHJ<sup>+</sup>12, CMH<sup>+</sup>17, DPCdR14, FHZ<sup>+</sup>16, LDL13, LXHL11, NFA15, SCK13]. **orally** [FHD13]. **orange** [FHZ<sup>+</sup>16, NNC<sup>+</sup>18, WCL<sup>+</sup>12]. **orange-spotted** [FHZ<sup>+</sup>16, NNC<sup>+</sup>18, WCL<sup>+</sup>12]. **orbicularis** [DTM<sup>+</sup>10]. **ordalii** [AHAMR<sup>+</sup>19]. **order** [CSS<sup>+</sup>16]. **Oregon** [JMHK18]. **Oreochromis** [AZSSZZ13, ACLP<sup>+</sup>19, ATP<sup>+</sup>17, AdOG<sup>+</sup>17, BMMC<sup>+</sup>15, CCHL13, CLLF14, CZL<sup>+</sup>19, DLPR15, DSLR16, DTJ<sup>+</sup>17, FLCC<sup>+</sup>14, FKB<sup>+</sup>14, ICVV16, KAS<sup>+</sup>18, KTP<sup>+</sup>15, KBTMH<sup>+</sup>16, LLH<sup>+</sup>14a, LCZ<sup>+</sup>18, LLX<sup>+</sup>19, LLL<sup>+</sup>18a, MCW<sup>+</sup>18, NMV<sup>+</sup>19, NLF11, NYRS12, OGI<sup>+</sup>18, PYSS19, PLC<sup>+</sup>19b, RHTC19b, RPMRLJ<sup>+</sup>19, SPKS17, SLKE10, SL15, SKGE13, SPS<sup>+</sup>19, TvWO<sup>+</sup>16, VMBGIC19, WSA<sup>+</sup>18, YSHG18, ZKL<sup>+</sup>19, vD14]. **ORF25** [ZWL<sup>+</sup>14]. **organ** [JJS<sup>+</sup>12, LCZ<sup>+</sup>18, OOO<sup>+</sup>11, PMBM13]. **organic**

[DD18, JKL<sup>+13</sup>, SHS14]. **organism**  
 [BMH<sup>+19</sup>, KHLL16, LLS<sup>+11</sup>, MTG<sup>+10</sup>, VDHV<sup>+16</sup>]. **organisms**  
 [GMB<sup>+17</sup>, GBO<sup>+18</sup>, RPJ<sup>+18</sup>]. **organs** [CSS<sup>+16</sup>, LCZ<sup>+18</sup>, ZCCN13].  
**oriental** [ZSZF16]. **orientalis**  
 [ATP<sup>+17</sup>, CDM<sup>+13</sup>, KBTMH<sup>+16</sup>, PLC<sup>+19b</sup>, SPKS17, SKGE13]. **origin**  
 [BDD<sup>+18</sup>, WDM<sup>+15</sup>]. **originating** [NJK<sup>+17</sup>]. **origins** [CRS<sup>+13</sup>, GRG<sup>+16</sup>].  
**ornamental** [CDM<sup>+13</sup>, CLHGK17, GJK<sup>+11</sup>, LFSZ18, NSC<sup>+15</sup>, NHM<sup>+10</sup>,  
 PRY<sup>+18</sup>, RHBMM13, dASLS<sup>+19</sup>, SSO<sup>+14</sup>, VCR<sup>+11</sup>, ZZC<sup>+17</sup>].  
**orocutaneous** [DD15]. **Ortholinae** [RRC<sup>+17</sup>]. **Ortholineidae** [RRC<sup>+17</sup>].  
**orthoreovirus**  
 [GB18, GMG<sup>+19</sup>, MIO<sup>+18</sup>, PPE<sup>+18</sup>, BHO<sup>+19</sup>, VCS<sup>+19</sup>, WHR<sup>+18</sup>].  
**orthoreovirus-3** [GMG<sup>+19</sup>]. **Oscar** [RHSM<sup>+18a</sup>]. **OsHV**  
 [GVLE16, GCCLRP<sup>+13</sup>]. **OsHV-1** [GVLE16, GCCLRP<sup>+13</sup>].  
**osmoregulation** [LTC16]. **Osmoregulatory** [PHVM13, LGJ19].  
**Osteichthyes** [CZB<sup>+11</sup>, PMP<sup>+18</sup>]. **osteosarcoma** [RHSM<sup>+18a</sup>]. **Ostrea**  
 [BLSG<sup>+16</sup>, BWP<sup>+19b</sup>]. **Ostreid** [GVLE16, HPY<sup>+13</sup>, BVL<sup>+18</sup>]. **other**  
 [BFFA<sup>+12</sup>, NB11]. **Outbreak**  
 [BCT<sup>+17</sup>, CGAS19, GVC<sup>+19</sup>, LLH<sup>+14b</sup>, LXL<sup>+18</sup>, SDJH16, XLZ<sup>+17</sup>,  
 AZSI<sup>+12</sup>, ACLP<sup>+19</sup>, BGRB14, BFFA<sup>+12</sup>, CGP<sup>+19</sup>, CCME16, CCMA<sup>+17</sup>,  
 DYML<sup>+18</sup>, EMA17, GFB<sup>+19</sup>, HHC<sup>+18</sup>, KTP<sup>+15</sup>, KAF<sup>+19</sup>, MSS<sup>+17b</sup>,  
 RBWR<sup>+15</sup>, SFF<sup>+17</sup>, TWNB<sup>+12</sup>, VPP<sup>+12</sup>, VFB<sup>+12</sup>, WDM<sup>+15</sup>, WCL<sup>+12</sup>].  
**Outbreaks** [HKD<sup>+10</sup>, KRD<sup>+17</sup>, WZL<sup>+11</sup>, CWL<sup>+17</sup>, CRAG<sup>+12</sup>, FLC<sup>+17</sup>,  
 HZP<sup>+12</sup>, HOHG13, JJB15, MHNY18, RDW18, STG<sup>+10</sup>, SJK<sup>+14</sup>]. **outcome**  
 [TDT<sup>+16</sup>]. **Outer** [KREM14, CLWJ13, NNC<sup>+18</sup>]. **ova** [SWS<sup>+16</sup>]. **Ovarian**  
 [RAM<sup>+17</sup>, CZB<sup>+11</sup>, SdMVS<sup>+16</sup>]. **ovatus** [LYL<sup>+18</sup>]. **overexpressing**  
 [SNM<sup>+16</sup>]. **Overview** [GL18, BW18]. **ovulatory** [GM11]. **oxidase**  
 [BSD<sup>+18c</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>]. **Oxidative**  
 [BCBS<sup>+13</sup>, MLER<sup>+18</sup>, BSD<sup>+18a</sup>, BSD<sup>+18d</sup>, PKLH19]. **oxide** [YK13].  
**oxolinic** [TNK12]. **Oxyeleotris** [WZL<sup>+11</sup>]. **oxygen** [MTLP<sup>+18b</sup>].  
**oxyrinchus** [MMD<sup>+12</sup>, SAD<sup>+12</sup>, MMD<sup>+12</sup>, SAD<sup>+12</sup>]. **oxysporum**  
 [KDP<sup>+17</sup>]. **oxytetracycline** [FLCC<sup>+14</sup>, FGJ<sup>+10</sup>, YVM<sup>+14</sup>]. **oyster**  
 [BLSG<sup>+16</sup>, BVL<sup>+18</sup>, CBM<sup>+17</sup>, CBM<sup>+18</sup>, CdAPdC<sup>+19</sup>, GCCLRP<sup>+13</sup>,  
 HPY<sup>+13</sup>, MDC<sup>+18</sup>]. **oysters** [BVT<sup>+18</sup>, CBM<sup>+18</sup>, GVLE16]. **ozonation**  
 [CB13]. **ozone** [ITKH18].

**P** [AFTEML19, IPW<sup>+13</sup>, UN10]. **P-1** [UN10]. **P-glycoprotein** [IPW<sup>+13</sup>].  
**p53** [XJL<sup>+19</sup>]. **Pacific** [STF<sup>+15</sup>, BTN<sup>+18</sup>, BVT<sup>+18</sup>, BVL<sup>+18</sup>, CDM<sup>+13</sup>,  
 CLW<sup>+13</sup>, GVLE16, GGW<sup>+11</sup>, GCCLRP<sup>+13</sup>, GCS<sup>+18</sup>, HLL<sup>+12</sup>, HCEH16,  
 HGH<sup>+16</sup>, HPY<sup>+13</sup>, JQK14, PPE<sup>+18</sup>, RPGCIG17, WMF14]. **pacinii** [BT14].  
**pacu** [CMSHS16, VGI<sup>+16</sup>]. **Pagellus** [RVB13]. **Pagrus**  
 [EPA<sup>+10</sup>, KLW10, LJGRI<sup>+10</sup>]. **pagurus** [SWH<sup>+14</sup>]. **pAh** [EDP<sup>+17</sup>]. **pAh-1**  
 [EDP<sup>+17</sup>]. **pair** [CZL<sup>+19</sup>, VCOD17]. **Palaemon** [SPTDEE<sup>+15</sup>]. **Pallas**  
 [WMF14]. **pallasii** [GGW<sup>+11</sup>, HLL<sup>+12</sup>, HCEH16]. **Pampus** [LJC<sup>+19</sup>].  
**pancerii** [TAQ<sup>+10</sup>]. **Pancreas** [JWO<sup>+10</sup>, AAUHW15, Ano10c, BMT<sup>+15</sup>,

CJB<sup>+15</sup>, DMB<sup>+19</sup>, GBSF12, JTW<sup>+10</sup>, JJB15, JJM<sup>+17</sup>, RSP<sup>+17</sup>, RRG<sup>+19</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SKJ13, TWNB<sup>+12</sup>]. **pancreatic** [AOAH13, BAH<sup>+18</sup>, CGW<sup>+19</sup>, ECP<sup>+10</sup>, FE11, JOF<sup>+19</sup>, JMS13, JJSJ15, KDA<sup>+18</sup>, KBD13, LASRA<sup>+19</sup>, LJGRI<sup>+10</sup>, LVADB17, MNM<sup>+18</sup>, MMH10, MMNL14, NB10, RMSH09, VCOD17]. **pangasiae** [SPV<sup>+18</sup>].  
**Pangasianodon** [BAD<sup>+12</sup>, CTK<sup>+10</sup>, SMV<sup>+14</sup>, SPV<sup>+18</sup>, VST<sup>+19</sup>].  
**Pangasius** [PRWG17, SZZSFN<sup>+14</sup>]. **Pansteatitis** [HWO<sup>+17</sup>, HOHG13, TvWO<sup>+16</sup>]. **pansteatitis-affected** [HOHG13].  
**pansteatitis-suffering** [TvWO<sup>+16</sup>]. **Paphies** [RPJ<sup>+18</sup>]. **papillary** [ONA10]. **papillomatosis** [DWL<sup>+17</sup>]. **papulosum** [GSBEM15, WBD<sup>+10b</sup>].  
**Parabrachiella** [PMBM13]. **Paracheirodon** [LLG<sup>+15</sup>, ŘKH17, SMS<sup>+19</sup>].  
**paraffin** [FBL<sup>+14</sup>, FGR<sup>+12</sup>]. **paraffin-embedded** [FBL<sup>+14</sup>, FGR<sup>+12</sup>].  
**parahaemolyticus** [CCLGRM<sup>+17</sup>, DD18, HXZ<sup>+16</sup>, ITKH18, KTN<sup>+16</sup>, KYB<sup>+15</sup>, LLDL13, LSA<sup>+15</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, ZJR<sup>+18</sup>].  
**parahaemolyticus-infected** [LMM<sup>+15</sup>, LMM<sup>+16</sup>]. **Paralichthys** [DBHC17, HKK<sup>+11b</sup>, JKC<sup>+11</sup>, LKS<sup>+13</sup>, LPC<sup>+18</sup>, LWZ<sup>+18</sup>, SSJ<sup>+19</sup>, WWS<sup>+11</sup>].  
**parameters** [SPCR<sup>+19</sup>, VST<sup>+19</sup>, WM19, WSA<sup>+18</sup>, XKB12]. **Paramoeba** [CHB<sup>+17</sup>, HSA17, WNMK<sup>+16</sup>]. **Parasite** [MWS17, USM17, ABC<sup>+10</sup>, BMD<sup>+14</sup>, BND<sup>+17</sup>, BCJ13, CBM<sup>+17</sup>, DAO19, EPCSBP18, FHD13, HHO14, HGH<sup>+16</sup>, LRB<sup>+17</sup>, ME12, MKK<sup>+11</sup>, MLWC11, MPM16, PZL<sup>+14</sup>, PMP<sup>+18</sup>, RAVC18, RRC<sup>+17</sup>, RKPG16, SBW<sup>+18</sup>, SBD11, SGQ<sup>+15</sup>, SSK17, TOK<sup>+16</sup>, WTM14, WNO<sup>+18</sup>, YMME13, YYW<sup>+14</sup>, ZCC18, MJ17]. **Parasites** [SMJ<sup>+12</sup>, BCM<sup>+17</sup>, ERÁpsB14, LZGZ16, MS16, MGM<sup>+18</sup>, VDO<sup>+18b</sup>].  
**Parasitic** [BA13, FŠK<sup>+19</sup>, AJLK<sup>+18</sup>, BDD<sup>+18</sup>, EDN18, GJMH17, vGJKR<sup>+17</sup>, LTC<sup>+14</sup>, LTC16, LTC17, SAD<sup>+12</sup>]. **parasitica** [RDW18, SSSP18, STES14, SWWN<sup>+16</sup>, TFG19]. **parasiticides** [XZZ16].  
**parasitized** [JMHK18]. **parasitizing** [GAC10]. **Parasitosis** [SBK<sup>+13</sup>].  
**Paratelphusa** [MRR<sup>+14</sup>, RNM<sup>+12</sup>]. **parauberis** [HKK<sup>+11b</sup>, LFSZ18, MP18, NLKA16]. **parietalis** [WEPB<sup>+18</sup>]. **Park** [HGPDI1, HOHG13]. **parr** [STES14]. **part** [BTN<sup>+18</sup>, JMS13]. **partial** [GFS<sup>+14</sup>, RB15, ZB12]. **parva** [MKK<sup>+11</sup>]. **parvalbumin** [LSA<sup>+15</sup>].  
**Parvicapsula** [BLP10, JNN<sup>+11</sup>]. **parvo** [MRR<sup>+14</sup>]. **parvo-like** [MRR<sup>+14</sup>].  
**parvovirus** [YTL10]. **passage** [OBFR12]. **passages** [STES14]. **passively** [NPGA<sup>+19</sup>]. **Pasteurella** [EWH<sup>+19</sup>, RB15]. **Pasteurellosis** [AGR<sup>+16</sup>].  
**Pastinachus** [SDZN19]. **pathogen** [AHITC18, AHAMR<sup>+19</sup>, BPMI<sup>+16</sup>, BMA13, DXX<sup>+15</sup>, DCL<sup>+17</sup>, DABO<sup>+17</sup>, EAN<sup>+18</sup>, EKT<sup>+11</sup>, FMA<sup>+19</sup>, FMB<sup>+11</sup>, KJB11, KPKP10, LITCAH19b, MB17, MSG<sup>+18</sup>, MFHHG18, Mor12, PKLH19, ŘKH16, RCGGM15, SHW<sup>+11</sup>, SP15, SMKBP17, VC17, XJL<sup>+15</sup>, YSV<sup>+13</sup>, YVM<sup>+14</sup>, YLX<sup>+19a</sup>, ZQB<sup>+11</sup>, ZZA<sup>+14</sup>].  
**pathogen-associated** [RCGGM15]. **Pathogenesis** [MGN<sup>+16</sup>, MKY<sup>+15</sup>, ADF14, ICVV16, KOI<sup>+14</sup>, MAC<sup>+15</sup>, RSIP<sup>+17</sup>].  
**Pathogenic** [BHA<sup>+11</sup>, ACAS14, BTN<sup>+18</sup>, CHH<sup>+14</sup>, FLVA10, HWM<sup>+13</sup>, HBH<sup>+19</sup>, KF10b, KKM<sup>+19</sup>, LQL<sup>+10</sup>, LML<sup>+13</sup>, MS16, MoSMS18, NMM<sup>+18</sup>, STIG17, SCS<sup>+12</sup>, TDLT<sup>+16</sup>, WZQ<sup>+16</sup>, YLS<sup>+19</sup>, ZDWH18]. **Pathogenicity**

[EWH<sup>+19</sup>, TES11, BBP18, FMA<sup>+19</sup>, HXZ<sup>+16</sup>, JGI<sup>+10</sup>, JSJR<sup>+19</sup>, JLJ16, LQL<sup>+10</sup>, LQY11, NN11, PLC<sup>+19</sup>b, RKH18, RSPA<sup>+18</sup>, SSF<sup>+17</sup>, VTM<sup>+14</sup>]. **pathogens** [ATJS<sup>+18</sup>, CGW<sup>+19</sup>, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DYML<sup>+18</sup>, EKT<sup>+11</sup>, LFH<sup>+11</sup>, MDC<sup>+18</sup>, RAM<sup>+18</sup>, SHS14, VME<sup>+19</sup>, WMM17, ZCQF15]. **Pathologic** [ACLP<sup>+19</sup>, FFLC17]. **pathological** [LAN<sup>+14</sup>, LF16, PAZ18]. **Pathology** [Loh13, MLMR16, SQC<sup>+14</sup>, BWB<sup>+17</sup>, BTC<sup>+17</sup>, DDBC<sup>+15</sup>, FYO<sup>+11</sup>, GKCC<sup>+12</sup>, LFP<sup>+11</sup>a, LFP<sup>+11</sup>b, MRSC13, SRT<sup>+14</sup>, WPH<sup>+13</sup>, WA14]. **Pathophysiological** [PCK<sup>+15</sup>]. **pathway** [JNS<sup>+19</sup>, WTM14, XJL<sup>+19</sup>]. **pathways** [LMM<sup>+15</sup>, LMM<sup>+16</sup>]. **pattern** [AAZS<sup>+15</sup>, DBV<sup>+13</sup>, ZWY<sup>+11</sup>]. **patterns** [AGFG19, DIVC16, EDN18, ONGQ<sup>+14</sup>, PHR14, RCGGM15, VDMJ<sup>+13</sup>, VMBGE17]. **paucus** [ABM<sup>+15</sup>]. **PCR** [KKT<sup>+18</sup>b, ATM<sup>+10</sup>, AOA13, AdOG<sup>+17</sup>, AHITC18, BKS<sup>+17</sup>, BBC<sup>+10</sup>, BMBS12, CDF<sup>+18</sup>, CYS17, CDG<sup>+14</sup>, CZL<sup>+19</sup>, DPMK12, DCL<sup>+17</sup>, ECP<sup>+10</sup>, FSM<sup>+16</sup>, FSO<sup>+10</sup>, FGR<sup>+12</sup>, FSG<sup>+12</sup>, GJK<sup>+11</sup>, GTH11, GBSF12, HSA17, HRL15, HGB<sup>+11</sup>, JKS<sup>+13</sup>, JNN<sup>+11</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, KKT<sup>+18</sup>a, LGS19, LML<sup>+13</sup>, LGC<sup>+19</sup>, LLS<sup>+11</sup>, MMBS10, MCW<sup>+18</sup>, NLKA16, NMM<sup>+18</sup>, SKN<sup>+16</sup>, SS17, SFL<sup>+16</sup>, TSK<sup>+19</sup>, TCFáS19, TAC15, YTL10, YGL<sup>+18</sup>, ZCC<sup>+15</sup>, ZHFC11, ZFZ<sup>+11</sup>, vBVLR<sup>+16</sup>]. **PCR-based** [BMBS12, FSM<sup>+16</sup>]. **PCR-DNA** [KKT<sup>+18</sup>a]. **PCRs** [MTAB15]. **PD** [Ano10c, BMT<sup>+15</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, SVY<sup>+14</sup>, TWNB<sup>+12</sup>]. **pear** [BAH<sup>+16</sup>]. **pearlspot** [MRN<sup>+19</sup>]. **peelii** [SJT14, SJT14]. **Pelagia** [MLMR16]. **peled** [SMS<sup>+18</sup>, SMS<sup>+18</sup>]. **Pelletan** [HMDB13]. **pellets** [SNM<sup>+16</sup>]. **pelvic** [FPK<sup>+17</sup>]. **penaeid** [BPK<sup>+17</sup>, CNN<sup>+10</sup>, HVVV15, SP15, TDLT<sup>+16</sup>, TDT<sup>+16</sup>, YTL10, PHW<sup>+16</sup>]. **Penaeus** [CMEV17a, CMS<sup>+17</sup>, CMEV17b, CWW<sup>+18</sup>, DCMM13, DBM<sup>+14</sup>, EEMCEGSP16, FSO<sup>+10</sup>, HXZ<sup>+16</sup>, JJS<sup>+12</sup>, MCO11, NNCLGC<sup>+11</sup>, OLC11, PSK<sup>+13</sup>, RDN<sup>+12</sup>, SMS<sup>+10</sup>, STS<sup>+15</sup>, SRSF10, STG<sup>+10</sup>, SNM<sup>+16</sup>, TSK<sup>+19</sup>, TTL<sup>+16</sup>]. **Peninsular** [SSO<sup>+14</sup>]. **Pennsylvania** [SBW<sup>+18</sup>]. **peptide** [CMH<sup>+17</sup>, UN10,ZN10]. **peptides** [PMK12]. **Peracetic** [SMFM12]. **Perca** [BGRB14, BGCKF12, CGP<sup>+19</sup>, KHLL16, OEG<sup>+13</sup>, PHvdH12, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SGQ<sup>+15</sup>, SKPS16]. **percae** [BGRB14]. **perch** [BGRB14, BGCKF12, CGP<sup>+19</sup>, FHD13, HBB14, KHLL16, OEG<sup>+13</sup>, PHvdH12, PBM<sup>+15</sup>, RPM<sup>+19</sup>, SGQ<sup>+15</sup>, SKPS16]. **Perciformes** [EKS<sup>+13</sup>, LXL<sup>+18</sup>]. **peregrinum** [PBW<sup>+18</sup>]. **perennis** [AA10]. **performance** [BWP<sup>+19</sup>b, LKS<sup>+13</sup>, LWZ<sup>+18</sup>, PSCFB<sup>+18</sup>, PG16]. **period** [OM10, SMS<sup>+10</sup>]. **peripheral** [WXL16]. **peritoneal** [DRG<sup>+17</sup>, GSS<sup>+10</sup>]. **Perkinsus** [CdAPdC<sup>+19</sup>, FBVC16]. **permanganate** [DBS12]. **permissive** [HO13]. **Peroxide** [MGM<sup>+18</sup>, ACN12, FVAVMGE18, HKBD15a, HKBD15b]. **Perry** [BCW<sup>+15</sup>, SBHC18, WZQ<sup>+16</sup>]. **Persistence** [BMMC<sup>+15</sup>, GMN12, HCEH16, WIC<sup>+19</sup>, GFW<sup>+10</sup>]. **Persistent** [JJSJ15, PWW19, Wen16]. **perspective** [dSCBdS<sup>+16</sup>]. **perspectives** [Dal18, HWO<sup>+17</sup>, ZGY<sup>+18</sup>]. **Peru** [MCSM17]. **perurans** [CONN10, CBLN13, CAS<sup>+18</sup>, CHB<sup>+17</sup>, FGR<sup>+12</sup>, HSA17, LTC16, LTC17,

MCCN14, NBJ10, WNMK<sup>+</sup>16, WNO<sup>+</sup>18]. **pet** [KZJ<sup>+</sup>17, BWM<sup>+</sup>13]. **pet-shop** [KZJ<sup>+</sup>17]. **PET** / [BWM<sup>+</sup>13]. **petechial** [PWW19]. **Peters** [AZSSZZ13, HVVV15, LCOZ10, MWS17, SPLV<sup>+</sup>15, TvWO<sup>+</sup>16, vD14]. **pH** [DSA<sup>+</sup>12, DAB<sup>+</sup>12, MMNL14]. **Phacoemulsification** [ALG15]. **Phaeochromocytoma** [TIK<sup>+</sup>14b]. **Phaeophleospora** [ŘKH18]. **phages** [CHV<sup>+</sup>12]. **pharmaceutical** [AH16]. **pharmacodynamic** [RHTC19b]. **Pharmacokinetic** [RHTC19b, dOAPLá<sup>+</sup>17, LWJ<sup>+</sup>16, Sam10]. **Pharmacokinetics** [DdRCP13, DPCdR14, FHZ<sup>+</sup>16, GSS<sup>+</sup>10]. **phase** [DJR<sup>+</sup>19]. **PHB** [HBH<sup>+</sup>19]. **Phenotype** [VSS17, DPD<sup>+</sup>18, HBVB16]. **phenotypes** [HRNW15, TALA11]. **Phenotypic** [DLPR15, IAR<sup>+</sup>10, PAZ18, DMK<sup>+</sup>19, RVC18, SHO<sup>+</sup>17, WZA10, ZQB<sup>+</sup>11]. **Phenotypical** [PKPG15]. **philippica** [YLX<sup>+</sup>19b]. **philippinarum** [FBVC16]. **Philometra** [SBM<sup>+</sup>11]. **philometrid** [MPM16]. **Philometridae** [MPM16]. **philppinarum** [ACYC10]. **phocae** [CGCAH12, GCMG<sup>+</sup>11]. **Phoma** [dSRSHGá<sup>+</sup>19]. **phospholipase** [ZWG<sup>+</sup>17]. **phosphotransfer** [BSV<sup>+</sup>18]. **photobacteriosis** [KPSP<sup>+</sup>19]. **Photobacterium** [BBP18, CDF<sup>+</sup>18, CRS<sup>+</sup>13, HHM<sup>+</sup>14, HCL<sup>+</sup>14, KPSP<sup>+</sup>19, OJRL10, SPS<sup>+</sup>17]. **Phyllopharyngea** [GJMH17]. **Phyllopteryx** [LYD<sup>+</sup>15]. **Phylogenetic** [PHvdH12, VC17, CGP<sup>+</sup>19, NRMS14, NSE<sup>+</sup>17]. **phylogeny** [BMH<sup>+</sup>19, GAC10, RRC<sup>+</sup>17, SCD19, YLW<sup>+</sup>14, YMPE13]. **physical** [SDI<sup>+</sup>18]. **Physiological** [CRO<sup>+</sup>18, MSS<sup>+</sup>17b]. **physiology** [BLP10, GTGCM19]. **Piaractus** [CMSHS16, FCS<sup>+</sup>18, VGI<sup>+</sup>16]. **Picornavirus** [LEM<sup>+</sup>19]. **Pierre** [HMDB13]. **pigment** [Góm12]. **pike** [Reh13]. **pikeperch** [BAH<sup>+</sup>16]. **Pimephales** [JBGP11, MGN<sup>+</sup>16, PPF<sup>+</sup>12, WBD<sup>+</sup>10b]. **Pimphales** [AHHR<sup>+</sup>10]. **pink** [BPPKJ10, SMJ<sup>+</sup>12]. **PirA** [NPGA<sup>+</sup>19, CCLGRM<sup>+</sup>17, dJDAVRGM<sup>+</sup>18]. **pirA-** [dJDAVRGM<sup>+</sup>18]. **PirA-like** [CCLGRM<sup>+</sup>17]. **piranha** [EDSL11]. **pirB** [dJDAVRGM<sup>+</sup>18]. **pirB-like** [dJDAVRGM<sup>+</sup>18]. **Pisces** [ANB<sup>+</sup>19, MGM<sup>+</sup>16, VDO<sup>+</sup>18a]. **Piscichlamydia** [WNGS<sup>+</sup>17]. **piscicida** [ACAS14, CDM<sup>+</sup>16, CGAS19, CDF<sup>+</sup>18, CRS<sup>+</sup>13, EAN<sup>+</sup>18, EA18, GPWF19, HCL<sup>+</sup>14, KPSP<sup>+</sup>19, OJRL10]. **piscicida-associated** [CDM<sup>+</sup>16]. **piscicola** [IAR<sup>+</sup>10]. **piscidin** [ZN10]. **Piscine** [GFO<sup>+</sup>13, GMG<sup>+</sup>19, GMC<sup>+</sup>16a, MMB<sup>+</sup>15, BBC<sup>+</sup>10, BWNS<sup>+</sup>11, GB18, JNS<sup>+</sup>19, KBTMH<sup>+</sup>16, MIO<sup>+</sup>18, PPE<sup>+</sup>18, TB12, TCM<sup>+</sup>19, WNSAL12, WNAF<sup>+</sup>13, BHO<sup>+</sup>19, SRM<sup>+</sup>18, SNK<sup>+</sup>19, VCS<sup>+</sup>19, WHR<sup>+</sup>18]. **pisciphila** [ŘKH17, ŘKH18]. **Piscirickettsia** [CRO<sup>+</sup>18, CIL<sup>+</sup>17, DRG<sup>+</sup>17, FCL<sup>+</sup>19, HBB<sup>+</sup>15, HKB<sup>+</sup>16, ISCF<sup>+</sup>19, LCV<sup>+</sup>17, MB17, MSG<sup>+</sup>18, MLRS<sup>+</sup>17, MFHHG18, MID<sup>+</sup>19b, OM10, PVIM18, RGD<sup>+</sup>13, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, RE14, SHO<sup>+</sup>17, SHKF16, SDR<sup>+</sup>15, SCR<sup>+</sup>15, YSV<sup>+</sup>13, YVM<sup>+</sup>14]. **Piscirickettsiosis** [RE14, MID<sup>+</sup>19a, RGD<sup>+</sup>13, RSIP<sup>+</sup>17]. **piscium** [CPP14, CPdPP16]. **PKD** [MJ17]. **PKD-parasite** [MJ17]. **placement** [GAC10]. **Placopecten** [BRL<sup>+</sup>13]. **plague** [KPKP10, SMKBP17, VDHV<sup>+</sup>16, VDH19]. **plant** [ESA<sup>+</sup>10, NFA15]. **plant-mixed** [ESA<sup>+</sup>10]. **plaque** [CCCTA<sup>+</sup>14]. **plasma**

[FBVC16, FBK<sup>+</sup>16, MMS<sup>+</sup>16]. **plasmid** [BLFRCQ10]. **Platax** [DTM<sup>+</sup>10]. **platensis** [RBH<sup>+</sup>17]. **platform** [JJS<sup>+</sup>12, MPJ<sup>+</sup>15]. **Platyhelminthes** [BB11, YEK<sup>+</sup>17]. **play** [BPCS19, WLX<sup>+</sup>10]. **plays** [PJZB19, ZZQ<sup>+</sup>19]. **plecoglossi** [ZCC18]. **plecoglossicida** [HZJ<sup>+</sup>19, LXZ<sup>+</sup>19, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **Plecoglossus** [CONN10, FNISE12, KSS<sup>+</sup>15, ZCC18]. **plerocerci** [BB11]. **Pleuronectiformes** [YMBE13]. **PLGA** [ASHZ<sup>+</sup>12]. **ploidy** [FFP<sup>+</sup>14, LAN<sup>+</sup>14]. **PMCV** [BWNS<sup>+</sup>11]. **Poecilia** [ADR11, BCM<sup>+</sup>17, LCOZ10, SPLV<sup>+</sup>15]. **Poeser** [ADR11]. **Poland** [NJK<sup>+</sup>17]. **policies** [JMD<sup>+</sup>18]. **Polish** [BMGS17, MBS<sup>+</sup>17]. **Pollock** [Dig15, WMF14]. **polluted** [HWO<sup>+</sup>17]. **poly** [HBH<sup>+</sup>19, SCS<sup>+</sup>12, ASHZ<sup>+</sup>12, OTN<sup>+</sup>12, OKS<sup>+</sup>13]. **poly-** [HBH<sup>+</sup>19, SCS<sup>+</sup>12]. **polyclonal** [ERÁpSB14]. **Polycystic** [JCS11, RhMV<sup>+</sup>15, RMAM12]. **Polydora** [CBM<sup>+</sup>18]. **polydorid** [CBM<sup>+</sup>17]. **polymerase** [BHT<sup>+</sup>17, CGG<sup>+</sup>10, HLP<sup>+</sup>16, TSS18, THW<sup>+</sup>12, WSX<sup>+</sup>18, YEK<sup>+</sup>17]. **polymicrobic** [CDD<sup>+</sup>18]. **Polymorphism** [HBB<sup>+</sup>15, CPB<sup>+</sup>15]. **polymorphisms** [FCL<sup>+</sup>19]. **Polynesia** [DTM<sup>+</sup>10]. **polyomavirus** [WCW<sup>+</sup>16b]. **Polyphasic** [DLCF13]. **polyphenol** [MDF<sup>+</sup>17]. **polysaccharide** [ZKL<sup>+</sup>19]. **polystyrene** [HRNW15]. **polyvalent** [HJN<sup>+</sup>19]. **pomfret** [CWL<sup>+</sup>17, LJC<sup>+</sup>19]. **Pomoxis** [BCT<sup>+</sup>17, GPWF19, SMS<sup>+</sup>19]. **pompano** [AZSI<sup>+</sup>12, LYI<sup>+</sup>18, WKW13]. **pond** [DML<sup>+</sup>16, HMV<sup>+</sup>17, SMS<sup>+</sup>18, TSK<sup>+</sup>19]. **pond-reared** [DML<sup>+</sup>16, HMV<sup>+</sup>17, SMS<sup>+</sup>18, TSK<sup>+</sup>19]. **ponds** [FBS13, MSK<sup>+</sup>12, RHS<sup>+</sup>12]. **pool** [LTM<sup>+</sup>19]. **pooled** [HWM<sup>+</sup>13]. **pooling** [LTM<sup>+</sup>19]. **Poorly** [CIA<sup>+</sup>18]. **population** [BDD<sup>+</sup>18, DIVC16, EKS<sup>+</sup>13, HHO14, ISCF<sup>+</sup>19, LKT<sup>+</sup>13, LUP<sup>+</sup>18, MFES18, MVWS13, ONGQ<sup>+</sup>14, SSL18, VPS<sup>+</sup>14, YLL<sup>+</sup>18]. **populations** [AAUHW15, BGCKF12, DBM<sup>+</sup>14]. **porcupinefish** [SBK<sup>+</sup>13]. **pORF72** [KJW<sup>+</sup>17]. **porgy** [EPA<sup>+</sup>10]. **Porpostoma** [OBR<sup>+</sup>14]. **Portugal** [BLSG<sup>+</sup>16]. **Portuguese** [RRC<sup>+</sup>17]. **Positive** [MSC<sup>+</sup>17, AJLC<sup>+</sup>16, BHA<sup>+</sup>11, LLS<sup>+</sup>11, LBF<sup>+</sup>14, STS<sup>+</sup>15]. **possible** [IFF<sup>+</sup>15, MLF<sup>+</sup>10, Tre12, YLSW14]. **post** [DPD<sup>+</sup>18, ECP<sup>+</sup>10, EEMCEGSP16, GM11, GDN<sup>+</sup>16, HBB14, KS19, KAF<sup>+</sup>19, NB10, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SPCR<sup>+</sup>19, SJSA<sup>+</sup>14]. **post-challenge** [SPCR<sup>+</sup>19]. **post-hatch** [DPD<sup>+</sup>18]. **post-larvae** [EEMCEGSP16, KS19]. **post-ovulatory** [GM11]. **post-release** [HBB14]. **post-smolt** [NB10, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18]. **post-smolts** [ECP<sup>+</sup>10, KAF<sup>+</sup>19]. **post-stocked** [GDN<sup>+</sup>16]. **pot** [LYD<sup>+</sup>15]. **pot-bellied** [LYD<sup>+</sup>15]. **Potamotrygon** [MdOO16]. **Potamotrygonidae** [MdOO16]. **potassium** [DBS12, HCCM12]. **potassium-deficient** [HCCM12]. **Potential** [EKED<sup>+</sup>17, LLDL13, MKI<sup>+</sup>15, MSB<sup>+</sup>19, STIG17, WCR<sup>+</sup>18, ZJDL18, BE19, CLWJ13, CHH<sup>+</sup>14, CHV<sup>+</sup>12, GWM12, LMAKN16, MSS<sup>+</sup>17a, PJL<sup>+</sup>12, PSK<sup>+</sup>12, PMPG<sup>+</sup>16, RAS<sup>+</sup>10, SHV<sup>+</sup>16, SSL18, WDM<sup>+</sup>15, WMM<sup>+</sup>16, WXL16, WTM14, WMF14, XZZ16, YTKS19]. **potentially** [MS16].

**Potomac** [DIH<sup>+</sup>16, PHR14]. **pouch** [ZZQ<sup>+</sup>19]. **povidone** [MoSMS18]. **Pox** [WNGS<sup>+</sup>17]. **poxvirus** [GGMG18b, GTT<sup>+</sup>17, GCM<sup>+</sup>18b, LDA<sup>+</sup>19]. **PP\_ExoU** [ZWG<sup>+</sup>17]. **practical** [BMBS12, HHO14]. **practices** [JR19, MMH<sup>+</sup>18, RMS<sup>+</sup>13]. **pRAS1** [BLFRCQ10]. **prawn** [FMT<sup>+</sup>14, IBFL19, LYKN18, MCO11, NRMS14, ZSF16]. **prawn-infesting** [IBFL19]. **praziquantel** [BCT<sup>+</sup>17, FHD13, OMB<sup>+</sup>19, ZPM<sup>+</sup>18]. **pre** [BHA<sup>+</sup>17, GBV<sup>+</sup>16, GDN<sup>+</sup>16]. **pre-** [GDN<sup>+</sup>16]. **pre-analytical** [BHA<sup>+</sup>17]. **pre-treatment** [GBV<sup>+</sup>16]. **preadult** [AH16]. **precipitation** [BTC<sup>+</sup>17]. **precision** [SK15]. **predatory** [TIK<sup>+</sup>14b]. **predict** [GCGR13]. **Preliminary** [ACN12, BVK<sup>+</sup>16]. **premises** [NSC<sup>+</sup>15]. **preparation** [WCW16a]. **preparations** [JBGP11, SGB<sup>+</sup>16]. **prerecruit** [SWH<sup>+</sup>14]. **Presence** [BSC<sup>+</sup>14, GIW<sup>+</sup>11, MGH<sup>+</sup>14, VCS<sup>+</sup>19, AAUHW15, DPTFC10, DPC<sup>+</sup>10, MMW<sup>+</sup>15, RDN<sup>+</sup>12, VCR<sup>+</sup>11, YLSW14]. **present** [ABVS18, BHT<sup>+</sup>17]. **presentation** [CGP<sup>+</sup>19]. **preserves** [FMM<sup>+</sup>19]. **pressure** [SVY<sup>+</sup>14]. **presumptive** [LGK<sup>+</sup>14]. **pretty** [ŘKH18]. **Prevalence** [BWNS<sup>+</sup>11, HKK<sup>+</sup>11b, MIO<sup>+</sup>18, MMWK19, MPS<sup>+</sup>18, SHO<sup>+</sup>17, SMS<sup>+</sup>18, WNSAL12, BND<sup>+</sup>17, BWB<sup>+</sup>17, BWP<sup>+</sup>19b, CXK16, DSJA18, FSM<sup>+</sup>16, FFP<sup>+</sup>14, FHFF15, HDWM15, KKK<sup>+</sup>18, LUP<sup>+</sup>18, LQY11, MMB10, MSK<sup>+</sup>12, PHR14, SBW<sup>+</sup>18, SMJ<sup>+</sup>14, ZDWH18]. **prevalent** [BAH<sup>+</sup>18, GMG<sup>+</sup>19]. **prevent** [AA10, BMK17, CB13, RHS<sup>+</sup>12]. **prevented** [SJSA<sup>+</sup>14]. **prevention** [FMB<sup>+</sup>11, MUM<sup>+</sup>19]. **preventive** [SSSP18]. **prevents** [NDA10]. **previously** [GLK<sup>+</sup>16]. **prickly** [BAH<sup>+</sup>16]. **primary** [RSB13]. **primer** [CZL<sup>+</sup>19, GTH11, LGD<sup>+</sup>17]. **primer/probe** [GTH11]. **primers** [VCOD17, YEK<sup>+</sup>17]. **Priming** [PHW<sup>+</sup>16]. **Prince** [MMMD16]. **prior** [GGW<sup>+</sup>11]. **Pro** [RCGGM15, BSD<sup>+</sup>18d]. **Pro-inflammatory** [RCGGM15, BSD<sup>+</sup>18d]. **pro-oxidative** [BSD<sup>+</sup>18d]. **probe** [GTH11, LGC<sup>+</sup>19, SMF<sup>+</sup>10]. **probed** [HRL15]. **probes** [BBC<sup>+</sup>10, VLVS<sup>+</sup>16]. **probiotic** [ABF15, BLFC12, DSSB18, GCNB16, LKS<sup>+</sup>13]. **Probiotics** [NFA15, ASA10, LMC<sup>+</sup>16]. **problems** [BK12]. **Procambarus** [AMAR18, DXX<sup>+</sup>15, JPG<sup>+</sup>19, WXWD15]. **procedure** [AHITC18, HAS<sup>+</sup>19, LJGRI<sup>+</sup>10, VCOD17]. **procedures** [HWM<sup>+</sup>13]. **process** [LTC16]. **processes** [ARL<sup>+</sup>17]. **produced** [KPM<sup>+</sup>11, SBK<sup>+</sup>15, WGL17]. **produces** [CRO<sup>+</sup>18]. **producing** [RVC18]. **product** [WGL17]. **Production** [CCLL16, FMT<sup>+</sup>14, KAS<sup>+</sup>18, BPMI<sup>+</sup>16, COB<sup>+</sup>16, DPADO16, ESV<sup>+</sup>19b, HDWM15, JR19, LAN<sup>+</sup>14, MCO11, OLC11]. **Production-level** [KAS<sup>+</sup>18]. **products** [ABF15, BGG11, LKS<sup>+</sup>13, MMNL14, NFA15, TFG19]. **profile** [BSB<sup>+</sup>18]. **profiles** [PRSK10, PMK12]. **profiling** [FBVC16, HKB<sup>+</sup>16, LHW<sup>+</sup>15b, WCL<sup>+</sup>12]. **progenitor** [WKW13]. **progeny** [WNSAL12]. **programme** [GCS<sup>+</sup>18]. **programmes** [BTN<sup>+</sup>18]. **progression** [VPCM19]. **proinflammatory** [NSE<sup>+</sup>17]. **projections** [RSR<sup>+</sup>18]. **Proliferation** [JPG<sup>+</sup>19, EPCS18, RBL<sup>+</sup>11]. **proliferative** [BSW17, DMD<sup>+</sup>17, RBF14]. **promelas**

[AHHR<sup>+10</sup>, JBGP11, MGN<sup>+16</sup>, PPF<sup>+12</sup>, WBD<sup>+10b</sup>]. **propagation** [EYF<sup>+19</sup>, GSEM13, NMV<sup>+19</sup>]. **properties** [BGG11, GCMG<sup>+11</sup>, HOHG13, NWMK16, ZWL<sup>+16</sup>]. **property** [BSD<sup>+18c</sup>]. **proposed** [TMWV14]. **Prospective** [GFW<sup>+10</sup>, JWO<sup>+10</sup>]. **prospects** [TDJ<sup>+10</sup>]. **protect** [GCNB16, HBH<sup>+19</sup>, LLDL13]. **protected** [ARFG13]. **Protection** [LXHL11, SLKE10, AHP<sup>+16</sup>, CHV<sup>+12</sup>, Dal18, JOF<sup>+19</sup>, JLJ16, LPA<sup>+10</sup>, MBS<sup>+19a</sup>, MSC<sup>+17</sup>, SSV<sup>+10</sup>, WBF<sup>+10</sup>]. **Protective** [BGD<sup>+17</sup>, CGR17, MA16, EDP<sup>+17</sup>, ESA<sup>+10</sup>, HCL<sup>+14</sup>, JJV<sup>+15</sup>, LLL<sup>+18a</sup>, WCR<sup>+18</sup>, YFA<sup>+17</sup>]. **protects** [BBF<sup>+15</sup>, CCLGRM<sup>+17</sup>, CSSWK10, LRC<sup>+18</sup>, RPMRLJ<sup>+19</sup>, SNM<sup>+16</sup>, SRB12, WHR<sup>+18</sup>]. **Protein** [FBVC16, BRB<sup>+12</sup>, CLWJ13, CXW<sup>+19</sup>, DJQ<sup>+12</sup>, DMB<sup>+19</sup>, DJR<sup>+19</sup>, FMT<sup>+14</sup>, KTK17, KREM14, LC17, MTK<sup>+10</sup>, NRMS14, NNC<sup>+18</sup>, NMiy14, PLCC11, RRG<sup>+19</sup>, SCK13, SNM<sup>+16</sup>, SOGR<sup>+19</sup>, VSS17, WCW16a, WCL<sup>+19</sup>, XXL<sup>+19</sup>, YZW<sup>+19</sup>, ZWG<sup>+18</sup>, ZWG<sup>+17</sup>, ZLN<sup>+17</sup>]. **protein-based** [ZWG<sup>+18</sup>]. **protein-labelled** [KTK17]. **protein-OmpU** [CLWJ13]. **protein-to-lipid** [DMB<sup>+19</sup>]. **proteins** [GSEM13, GAEK<sup>+14</sup>, HLC<sup>+15</sup>, JKC<sup>+11</sup>, KREM14, LLC<sup>+11</sup>, LLL<sup>+12</sup>, LMAKN16, PLCC11, RAS<sup>+10</sup>, SRSF10, SRD<sup>+16</sup>, WBF<sup>+10</sup>]. **proteobacteria** [CMR<sup>+16</sup>, KMGK<sup>+18</sup>]. **proteolytic** [SLPB18]. **Proteomic** [PJU<sup>+13</sup>, GPL<sup>+12</sup>, TCS19]. **protocol** [LWWS14, SEK<sup>+16</sup>, YVM<sup>+14</sup>]. **Protopterus** [RSR<sup>+18</sup>]. **Prototheca** [JDRM17]. **protothecosis** [JDRM17]. **Protozoa** [SPP<sup>+18</sup>]. **protozoan** [LPC<sup>+18</sup>, PZL<sup>+14</sup>]. **protozoans** [MUM<sup>+19</sup>]. **Province** [LQY11]. **Provisional** [GCW17]. **Prussian** [LLL<sup>+13</sup>]. **PRV** [BHO<sup>+19</sup>, GFO<sup>+13</sup>, GB18, VCS<sup>+19</sup>]. **PRV-1** [VCS<sup>+19</sup>]. **PSD** [MNF<sup>+15</sup>]. **Pseudambassis** [Góm12]. **pseudobranchicola** [JNN<sup>+11</sup>]. **Pseudocapillaria** [KWGS19, MWRSK17, MKK<sup>+11</sup>]. **Pseudocyst** [LTC17]. **Pseudodactylogyrus** [MWS17]. **pseudodispar** [ME12]. **Pseudoloma** [CXK16, SSK17]. **Pseudomonas** [AJLK<sup>+18</sup>, ARFG13, BSSB18, BSD<sup>+18c</sup>, GPFGAG19, HZJ<sup>+19</sup>, LDEH17, LXZ<sup>+19</sup>, SM14, SBW11, ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **pseudomycoïdes** [OSAA18]. **Pseudoplatystoma** [FLC<sup>+17</sup>]. **Pseudorasbora** [MKK<sup>+11</sup>]. **Pseudosciaena** [HZJ<sup>+19</sup>]. **Pseudoterranova** [BK12]. **pseudotuberculosis** [VPS<sup>+14</sup>]. **psychrophilum** [SBW11, BLFC12, CHV<sup>+12</sup>, CAJD<sup>+18</sup>, DMP10, DJR<sup>+19</sup>, FNISE12, GPL<sup>+12</sup>, HKBD15a, HKBD15b, HJN<sup>+19</sup>, HRNW15, JDH<sup>+18</sup>, JML19, KSS<sup>+15</sup>, LLC<sup>+11</sup>, LPCC12, MBS<sup>+19a</sup>, MBOC19, NN11, NSB<sup>+18</sup>, NOV<sup>+11</sup>, OBD<sup>+11</sup>, PDLW17, PLCC11, PFJ<sup>+10</sup>, RHB<sup>+15</sup>, SDWA18, SEK<sup>+16</sup>, SWE<sup>+19</sup>, SW11]. **Pterodon** [VDO<sup>+18a</sup>]. **PTS** [XXL<sup>+19</sup>]. **puffer** [KOI<sup>+14</sup>, MKMY10]. **Puffy** [MNF<sup>+15</sup>]. **pulchella** [MAOS<sup>+18</sup>]. **pulcher** [ŘKH18]. **pulsed** [TAC15]. **pulsed-field** [TAC15]. **Pulteney** [PDdC<sup>+14</sup>]. **pumpkinseed** [LDEH17]. **punctatus** [BBF<sup>+15</sup>, LTC<sup>+14</sup>, MP18, PRSK10, RKPG16, YSK13, YK13]. **puntazzo** [KPT<sup>+11</sup>]. **Puntius** [SMD<sup>+12</sup>]. **Purification** [DLCC<sup>+13</sup>, CCCTA<sup>+14</sup>]. **Purified** [RHB<sup>+15</sup>]. **Purinergic** [BSB<sup>+18</sup>]. **purposes** [DAB<sup>+12</sup>]. **purse** [LLZW14]. **Putative** [LSC<sup>+14</sup>, GCNB16, GSEM13, YK12]. **putitora** [SM14]. **putrefaciens**

[CDD<sup>+</sup>18, EMA17, MP18, PKPG15]. **Pygidiopsis** [BCM<sup>+</sup>17]. **Pygocentrus** [EDSL11].

**qPCR** [AGB<sup>+</sup>19, GCNB18, GM10, GDN<sup>+</sup>16, OBD<sup>+</sup>11, VLVS<sup>+</sup>16, VCOD17]. **qPCR-based** [GCNB18]. **qRT** [ECP<sup>+</sup>10]. **qRT-PCR** [ECP<sup>+</sup>10]. **Quality** [TWNB<sup>+</sup>12, MoSMS18]. **Quantification** [OBD<sup>+</sup>11, BKS<sup>+</sup>17, CDF<sup>+</sup>18, FSO<sup>+</sup>10, GCNB18, LGC<sup>+</sup>19, PPK<sup>+</sup>13, TCFÁS19, VCOD17]. **quantifying** [PSR<sup>+</sup>11]. **quantitation** [NLKA16]. **Quantitative** [LLS<sup>+</sup>11, NSC<sup>+</sup>18, NWMK16, NOST<sup>+</sup>16, SSJ<sup>+</sup>19, BHT<sup>+</sup>17, CMEV17b, EAM<sup>+</sup>13, FGR<sup>+</sup>12, FSG<sup>+</sup>12, JBO<sup>+</sup>15, LGC<sup>+</sup>19, SS17, SFL<sup>+</sup>16, TSS18, VST<sup>+</sup>19]. **quarantine** [NSC<sup>+</sup>15, RHS<sup>+</sup>12]. **quaternary** [MoSMS18]. **Queensland** [BFFA<sup>+</sup>12, BDB<sup>+</sup>18, CBH<sup>+</sup>15, DDBC<sup>+</sup>15, Dig13, Dig15, OLC11, Pol15]. **quelen** [CCMA<sup>+</sup>17]. **quenching** [DSSB18]. **quinolones** [HBB<sup>+</sup>15]. **quinqueradiata** [MFS<sup>+</sup>17, YYF<sup>+</sup>10]. **Quinsam** [BPPKJ10]. **Quorum** [NDA<sup>+</sup>19, DSSB18, HBVB16, ZCQF15]. **Quoy** [CCMA<sup>+</sup>17, PC17, WCW<sup>+</sup>16b].

**r** [FMT<sup>+</sup>14]. **r-MCP43** [FMT<sup>+</sup>14]. **rabbitfish** [DRdS<sup>+</sup>10]. **Rachycentron** [CLL<sup>+</sup>10, HCL<sup>+</sup>14, HSHC<sup>+</sup>16, PSS17, SPS<sup>+</sup>17, TWYC15]. **Radiological** [FvdMF<sup>+</sup>18, RHST<sup>+</sup>16]. **Rafinesque** [AHHR<sup>+</sup>10, BBF<sup>+</sup>15, BMA13, DWL<sup>+</sup>17, HAP<sup>+</sup>10, JBGP11, LTC<sup>+</sup>14, LL11, LRB<sup>+</sup>17, LDEH17, MGN<sup>+</sup>16, PPF<sup>+</sup>12, PRSK10, RKPG16, YSK13, YK13]. **Rainbow** [DJR<sup>+</sup>19, vGJKR<sup>+</sup>17, ASA10, ASHZ<sup>+</sup>12, AOA13, AHHR<sup>+</sup>10, AHPR<sup>+</sup>16, AJLC<sup>+</sup>16, ABT<sup>+</sup>14, AA10, AMA11, BSW17, BSPS<sup>+</sup>18, BCLM<sup>+</sup>19, BKD17, BHA<sup>+</sup>11, BE19, BA14, BLFC12, BAH<sup>+</sup>18, CSS<sup>+</sup>16, CGW<sup>+</sup>19, CHAB10, CKJ<sup>+</sup>14, CMH<sup>+</sup>17, CAJD<sup>+</sup>18, CPB<sup>+</sup>15, CLS<sup>+</sup>15, DS10, DPTFC10, DPTCF10, DMP10, DSSB18, DSSB19, DdRTM13, DdRCP13, DPADO16, DSJA18, DT16, GRB<sup>+</sup>17, GMB<sup>+</sup>17, GCNB16, GPFGAG19, GDW<sup>+</sup>15, GMC<sup>+</sup>16b, HKBD15a, HKBD15b, HJN<sup>+</sup>19, JKL<sup>+</sup>13, JAJC<sup>+</sup>18, JDH<sup>+</sup>18, JML19, vGJHS<sup>+</sup>11, KSM<sup>+</sup>17, LPA<sup>+</sup>10, LP17, LLS<sup>+</sup>11, MBOC19, MNF<sup>+</sup>15, MSC<sup>+</sup>17, MCSM17, MHNY18, Mor12, MTLP<sup>+</sup>18b, MNM<sup>+</sup>18, MNM<sup>+</sup>19, NB11, NOV<sup>+</sup>11, NDA10, OP14, OLVJ<sup>+</sup>13, OBFR12, OBD<sup>+</sup>11, OSAA18, OLT<sup>+</sup>10, PDLW17, PMW<sup>+</sup>10, PMH<sup>+</sup>11, PSBG<sup>+</sup>11, PLCC11, QPB<sup>+</sup>16, RSB13, ŘKH16, RCGGM15, RBL<sup>+</sup>11, RHB<sup>+</sup>15, SHJ<sup>+</sup>12, SPCR<sup>+</sup>19, SCR<sup>+</sup>15, SON<sup>+</sup>18, SSC17, VSS17, XKB12, YDO<sup>+</sup>16]. **raised** [AdOG<sup>+</sup>17, KTP<sup>+</sup>15, SBM<sup>+</sup>11]. **Ralstonia** [HBH<sup>+</sup>19]. **ram** [LFSZ18]. **ramirezi** [LFSZ18]. **ranavirus** [GJM<sup>+</sup>15, KRD<sup>+</sup>17]. **ranaviruses** [VCR<sup>+</sup>11, WBD10a]. **ranched** [SFU<sup>+</sup>13]. **Randomized** [BSBH10]. **ranga** [Góm12]. **range** [BMBS12, BGD<sup>+</sup>17, KF10a]. **ranges** [LHW<sup>+</sup>15a]. **Ranzani** [BCG<sup>+</sup>17, CHF<sup>+</sup>12]. **RAPD** [DBM<sup>+</sup>14]. **RAPD-SCAR** [DBM<sup>+</sup>14]. **Raphidascarididae** [RGMGG<sup>+</sup>18]. **Rapid** [ASSP<sup>+</sup>15, CCHL13, HJOK11, KKT<sup>+</sup>18b, LFH<sup>+</sup>11, SEM18, WSX<sup>+</sup>18, WKK12, ZFZ<sup>+</sup>11, ZLN<sup>+</sup>17, CDF<sup>+</sup>18, CZB<sup>+</sup>11, HH13b, KPSP<sup>+</sup>19, KKT<sup>+</sup>18a, LDÁM14, LXX<sup>+</sup>17, MSI<sup>+</sup>15, YWW<sup>+</sup>19, YLX<sup>+</sup>19a]. **rare**

[GKO<sup>+14</sup>]. **rate** [VDHV<sup>+16</sup>]. **rates** [MPS<sup>+18</sup>, OP14]. **Rathbun** [FSM<sup>+16</sup>]. **ratio** [DMB<sup>+19</sup>]. **Ratzeburg** [RFA<sup>+14</sup>]. **raw** [TWNB<sup>+12</sup>]. **ray** [BB11, BCJ13, VPCM19]. **rays** [BDB<sup>+18</sup>]. **razor** [PDdC<sup>+14</sup>]. **rDNA** [ZFZ<sup>+11</sup>]. **re** [BSW17, PFC<sup>+13</sup>]. **re-exposure** [BSW17]. **re-infection** [PFC<sup>+13</sup>]. **reaction** [BHT<sup>+17</sup>, BTC<sup>+17</sup>, TSS18, THW<sup>+12</sup>, YEK<sup>+17</sup>]. **reactions** [ESV<sup>+19b</sup>, GGGM14]. **reactor** [JSAB<sup>+19</sup>]. **Real** [HGB<sup>+11</sup>, JNN<sup>+11</sup>, ATM<sup>+10</sup>, AdOG<sup>+17</sup>, BKS<sup>+17</sup>, BKD17, BMBS12, CDF<sup>+18</sup>, CDG<sup>+14</sup>, DCL<sup>+17</sup>, FSO<sup>+10</sup>, FGR<sup>+12</sup>, FSG<sup>+12</sup>, GJK<sup>+11</sup>, GTH11, GBSF12, HRL15, JKS<sup>+13</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, LGC<sup>+19</sup>, MMBS10, MSI<sup>+15</sup>, NLKA16, TCFáS19, YTL10, ZHFC11, vBVLR<sup>+16</sup>]. **Real-time** [HGB<sup>+11</sup>, JNN<sup>+11</sup>, ATM<sup>+10</sup>, AdOG<sup>+17</sup>, BKS<sup>+17</sup>, BKD17, BMBS12, CDF<sup>+18</sup>, CDG<sup>+14</sup>, DCL<sup>+17</sup>, FSO<sup>+10</sup>, FGR<sup>+12</sup>, FSG<sup>+12</sup>, GJK<sup>+11</sup>, GTH11, GBSF12, HRL15, JKS<sup>+13</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, LGC<sup>+19</sup>, MMBS10, MSI<sup>+15</sup>, NLKA16, TCFáS19, YTL10, ZHFC11, vBVLR<sup>+16</sup>]. **reared** [APP<sup>+17</sup>, BRMG13, CONN10, DML<sup>+16</sup>, GTT<sup>+17</sup>, HMV<sup>+17</sup>, JWO<sup>+10</sup>, LHW<sup>+15a</sup>, MSS<sup>+17b</sup>, OBR<sup>+14</sup>, PSS17, PFP<sup>+13</sup>, RBWR<sup>+15</sup>, SBP<sup>+19</sup>, SMS<sup>+18</sup>, TSK<sup>+19</sup>, WBE<sup>+17</sup>, XQS<sup>+15</sup>]. **rearing** [MUM<sup>+19</sup>, MPS<sup>+18</sup>]. **Reassortant** [SODB16, SOA<sup>+18</sup>, SOGR<sup>+19</sup>]. **recaptured** [MKI<sup>+15</sup>]. **recently** [GTT<sup>+17</sup>]. **receptor** [NYRS12, VSS17]. **receptors** [NSE<sup>+17</sup>, PRSK10, SHKF16, TQW<sup>+14</sup>, ZGY<sup>+18</sup>]. **recirculating** [BTN<sup>+18</sup>]. **recirculation** [ACM<sup>+14</sup>, GDW<sup>+15</sup>, JSAB<sup>+19</sup>]. **recognized** [GCM<sup>+18b</sup>]. **recognizing** [YLS<sup>+19</sup>]. **Recombinant** [CCLGRM<sup>+17</sup>, CGW<sup>+19</sup>, EBM<sup>+18</sup>, FMT<sup>+14</sup>, vGJKR<sup>+17</sup>, LMAKN16, MTK<sup>+10</sup>, WCW16a, YSK13, ZWG<sup>+18</sup>]. **recombinase** [WSX<sup>+18</sup>]. **Recommendations** [BTN<sup>+18</sup>]. **recompressed** [PSK<sup>+12</sup>]. **record** [BMA13, HHC<sup>+18</sup>, LRB<sup>+17</sup>, MCCN14, SPP<sup>+18</sup>, SFBW<sup>+17</sup>, ZCC18]. **recovered** [DLCF13]. **Recovery** [BC11, GPWF19, OSC<sup>+14</sup>, OSAA18, PSK<sup>+12</sup>, SM14, EA18, MGM<sup>+18</sup>]. **recruit** [CBM<sup>+18</sup>]. **recruits** [WOD16]. **recurrent** [VPCM19]. **red** [AMAR18, AZSSZZ13, AI11, CSS<sup>+16</sup>, DLPR15, DSLR16, EPA<sup>+10</sup>, EDSL11, GM11, ICVV16, IGLG<sup>+17</sup>, JKH<sup>+17</sup>, KKK<sup>+18</sup>, KHC<sup>+18</sup>, KLW10, LLZW14, MTG<sup>+10</sup>, PCK<sup>+15</sup>, RPMRLJ<sup>+19</sup>, XJL<sup>+19</sup>, GRB<sup>+17</sup>, GMB<sup>+17</sup>]. **red-bellied** [EDSL11]. **red-mark** [MTG<sup>+10</sup>]. **red-spotted** [KKK<sup>+18</sup>, XJL<sup>+19</sup>]. **redbanded** [LJGRI<sup>+10</sup>]. **redescription** [ZYW<sup>+10</sup>]. **Redfin** [PBM<sup>+15</sup>]. **redspotted** [CGG<sup>+10</sup>, MRN<sup>+19</sup>, ZLN<sup>+17</sup>]. **reduce** [WNO<sup>+18</sup>]. **reduced** [STF<sup>+15</sup>]. **reduces** [CBM<sup>+17</sup>, PFC<sup>+13</sup>, RHB<sup>+15</sup>]. **reducing** [SSC17]. **reduction** [LRS<sup>+17</sup>, QWTL17]. **reductions** [QZZ<sup>+18b</sup>]. **reef** [BGC<sup>+17</sup>, CDM<sup>+13</sup>, PC17]. **refeeding** [CMEV17a]. **references** [HBS<sup>+14</sup>]. **refined** [NNC<sup>+18</sup>]. **regalis** [CCM<sup>+11</sup>]. **Regan** [RhAS<sup>+15</sup>]. **regardless** [MTLP<sup>+18b</sup>]. **regime** [LAN<sup>+14</sup>]. **regimen** [RHTC19b]. **regimes** [BRL<sup>+13</sup>]. **Region** [AAUHW15, MdOO16, DPMK12, EKED<sup>+17</sup>, dSdAdS<sup>+19</sup>, BNS13]. **regions** [HZP<sup>+12</sup>, TQW<sup>+14</sup>, CCW<sup>+15</sup>]. **regius** [EKS<sup>+13</sup>, TAQ<sup>+10</sup>]. **regulation** [HGX<sup>+19</sup>, RBM<sup>+16</sup>, SJSA<sup>+14</sup>, VMBGE17, XXL<sup>+19</sup>]. **reidi**

[DSMC17, LKT<sup>+13</sup>]. **reinforced** [MKI<sup>+15</sup>]. **reinhardtii** [CSA<sup>+15</sup>]. **related** [BCLM<sup>+19</sup>, COB<sup>+16</sup>, FVAVMGE18, FSB18a, HST<sup>+13</sup>, JBO<sup>+15</sup>, JJS<sup>+12</sup>, LMM<sup>+15</sup>, LMM<sup>+16</sup>, PdLC19, SKJ13, TCC10a, WCW<sup>+16b</sup>]. **relation** [JHRW17, RAS<sup>+10</sup>]. **relationship** [LWMT10, SAD<sup>+12</sup>]. **Relationships** [OLT<sup>+10</sup>, MKKM15]. **Relative** [SMJ<sup>+14</sup>, CDG<sup>+14</sup>, FSO<sup>+10</sup>, FMH<sup>+15</sup>, GMC<sup>+16b</sup>, SSJ<sup>+19</sup>]. **relatively** [GRP<sup>+15</sup>]. **release** [HBB14]. **relevant** [PSVK<sup>+18</sup>, RHB<sup>+15</sup>, SWD<sup>+14</sup>]. **Reliability** [HWM<sup>+13</sup>]. **reliable** [Sla14]. **remarkable** [WGL17]. **remedy** [BE19]. **removal** [LL11]. **renal** [CBFM16, RHSM<sup>+18a</sup>]. **Renibacterium** [BPMI<sup>+16</sup>, BAMYAH19, EAM<sup>+13</sup>, HDWM15, áKÁGA16, LMG<sup>+19</sup>, PFJ<sup>+10</sup>, PMPG<sup>+16</sup>, STF<sup>+15</sup>]. **reovirus** [DPADO16, FSM<sup>+16</sup>, GFO<sup>+13</sup>, GMC<sup>+16a</sup>, LXHL11, MMB<sup>+15</sup>, WCR<sup>+18</sup>, WNSAL12, ZCCN13, ZCC<sup>+15</sup>, ZWG<sup>+18</sup>, ZB12, ZSF16]. **repair** [FvdMF<sup>+18</sup>]. **repeat** [ACAS14, HZP<sup>+12</sup>]. **Repeated** [WNO<sup>+18</sup>, CAS<sup>+18</sup>, JAJC<sup>+18</sup>]. **repeats** [HZP<sup>+12</sup>, JGI<sup>+10</sup>]. **repellents** [OWM<sup>+17</sup>]. **repetitive** [CYS17, TAC15]. **repetitive-element** [CYS17]. **replication** [AGB<sup>+19</sup>, GSBEM15, GGW<sup>+11</sup>, HLP<sup>+16</sup>, JQK14, RNM<sup>+12</sup>, SOGR<sup>+19</sup>]. **Reply** [Dig15]. **report** [ALG15, ATP<sup>+16</sup>, BMK17, BRMG13, BO15, BHW<sup>+11</sup>, CIA<sup>+18</sup>, CSA<sup>+15</sup>, DBHC17, EPA<sup>+10</sup>, FKB<sup>+14</sup>, GL18, GRB<sup>+17</sup>, JDRM17, KPK<sup>+18</sup>, KDP<sup>+17</sup>, LGK<sup>+14</sup>, LFSZ18, MdOO16, MVWS13, OOO<sup>+11</sup>, SPS<sup>+17</sup>, SdMVS<sup>+16</sup>, WBE<sup>+17</sup>, ZxYJ<sup>+19</sup>]. **reported** [ZWLG10]. **reports** [RBF14, SWE<sup>+19</sup>]. **representing** [KWD<sup>+16</sup>]. **reproduction** [SSA13]. **Republic** [PFP<sup>+13</sup>]. **required** [HGW<sup>+19</sup>, KZJ<sup>+17</sup>, NDA<sup>+19</sup>]. **rerio** [AMRH18, Bin14, CXK16, CKvGJB17, EDP<sup>+17</sup>, KWGS19, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MLR<sup>+12</sup>, MWRSK17, RAM<sup>+19</sup>, SZM<sup>+15</sup>, SSK17, ZJR<sup>+18</sup>]. **research** [MPJ<sup>+15</sup>, SSK17, TMWV14]. **reservoir** [WMF14]. **reservoirs** [EA18, GB18, MSK<sup>+12</sup>]. **residence** [SMJ<sup>+12</sup>]. **resident** [áKÁGA16]. **residual** [TNK12]. **residue** [DdRCP13, DPCdR14]. **residues** [FGJ<sup>+10</sup>]. **Resistance** [JAR<sup>+11</sup>, KNN19, MRN<sup>+19</sup>, AAZS<sup>+15</sup>, BSW17, CIL<sup>+17</sup>, CKTT10, CYS17, CPB<sup>+15</sup>, DMP10, DBM<sup>+14</sup>, FCL<sup>+19</sup>, HBS<sup>+14</sup>, HBB<sup>+15</sup>, JOF<sup>+19</sup>, LKS<sup>+13</sup>, LLZW14, NB11, OLT<sup>+10</sup>, SMM<sup>+13</sup>, SWD<sup>+14</sup>, SPS<sup>+19</sup>, TCC10a, VST<sup>+19</sup>, WM19, WSA<sup>+18</sup>, ZYW<sup>+10</sup>, ZDWH18]. **resistant** [GTGCM19, GRP<sup>+15</sup>, LLX<sup>+19</sup>, LSA<sup>+15</sup>, OFA11, PBM<sup>+15</sup>, RKK<sup>+19</sup>, RHBMM13, ZCJ<sup>+18</sup>]. **resisting** [WXWD15]. **respectively** [MAOS<sup>+18</sup>]. **respiratory** [CHAB10, GCM<sup>+18b</sup>, UKS<sup>+18</sup>]. **Response** [JCN<sup>+14</sup>, JSAAH<sup>+18</sup>, MGM<sup>+18</sup>, ABC<sup>+10</sup>, BSD<sup>+18b</sup>, BSB<sup>+18</sup>, BCBS<sup>+13</sup>, BAMYAH19, CLGP15, CGR17, CKJ<sup>+14</sup>, CKvGJB17, CCME16, DPC<sup>+10</sup>, DMB<sup>+16</sup>, DJR<sup>+19</sup>, DCZ<sup>+17</sup>, ELI<sup>+17</sup>, EDV<sup>+18</sup>, FBVC16, GAVC16, HGH<sup>+18</sup>, HSGD11, HKBD15b, HMW11, HGX<sup>+19</sup>, HSHC<sup>+16</sup>, JAJC<sup>+18</sup>, vGJKR<sup>+17</sup>, KBD13, LSC<sup>+14</sup>, LMM<sup>+16</sup>, LHW<sup>+12</sup>, LHW<sup>+15b</sup>, MWS17, NSC<sup>+18</sup>, NYRS12, PKLH19, PMK12, RBAT<sup>+17</sup>, RCGGM15, RSPA<sup>+18</sup>, SSSP18, SPS<sup>+19</sup>, SJSA<sup>+14</sup>, TCC10a, TMC<sup>+12</sup>]. **response-related**

[LMM<sup>+16</sup>]. **responses**  
 [Ano12c, BLF<sup>+16</sup>, BGD<sup>+17</sup>, Buc12, CRS<sup>+13</sup>, CSCCA14, FSB18a, HXZ<sup>+16</sup>, HZX<sup>+13</sup>, JMF<sup>+18</sup>, JPG<sup>+19</sup>, LMC<sup>+16</sup>, MF12, MSS<sup>+17b</sup>, NNC<sup>+18</sup>, PPF<sup>+12</sup>, QZZ<sup>+18b</sup>, STS<sup>+15</sup>, SVL<sup>+17</sup>, TMM<sup>+15</sup>, YSHG18, ZZQ<sup>+19</sup>]. **responsible** [MHNY18]. **restocking** [VPP<sup>+12</sup>]. **Restricted** [PMH<sup>+11</sup>]. **restriction** [BCLM<sup>+19</sup>, BLF<sup>+16</sup>, RHB<sup>+15</sup>]. **Result** [TDS<sup>+19</sup>]. **results** [FBAS16, GRF14, HBS<sup>+14</sup>, JWO<sup>+10</sup>, KZJ<sup>+17</sup>]. **retained** [ABM<sup>+15</sup>]. **retention** [BDD<sup>+18</sup>]. **reticulata** [LCOZ10, SPLV<sup>+15</sup>]. **retifera** [CHF<sup>+12</sup>]. **retinopathy** [DVC<sup>+17</sup>, GFB<sup>+13</sup>, NOST<sup>+16</sup>, VPP<sup>+12</sup>]. **retrieved** [VGP<sup>+18</sup>]. **Retrospective** [CXK16, NB10]. **returning** [JKO<sup>+13</sup>, LST<sup>+12</sup>, MIO<sup>+18</sup>, MMWK19]. **revealed** [WMD<sup>+18</sup>]. **reveals** [BLF<sup>+16</sup>, EDN18, EPCSBP18, IBFL19, MAC<sup>+15</sup>, MLWC11, RDW18, RSPA<sup>+18</sup>, WGL17, XJL<sup>+19</sup>, ZCJ<sup>+18</sup>]. **reverse** [LGD<sup>+17</sup>, TSS18, YWW<sup>+19</sup>]. **Revie** [JCN<sup>+14</sup>]. **review** [DVC<sup>+17</sup>, GFS<sup>+18</sup>, MR11, Rob10, RAS<sup>+10</sup>, RE14, SAS<sup>+19</sup>, SMKBP17, WMM17, WBD10a, Dal18]. **revision** [ZWLG10]. **RFLP** [LGD<sup>+17</sup>]. **RGNNV** [SOA<sup>+18</sup>, ZLN<sup>+17</sup>]. **Rhabdosargus** [SGR<sup>+18</sup>]. **rhabdovirus** [AHB<sup>+17</sup>, BPF<sup>+18</sup>, BMMP<sup>+14</sup>, CGP<sup>+19</sup>, HMP<sup>+12</sup>, SJDC<sup>+13</sup>, SDJH16, YMH<sup>+11</sup>]. **Rhamdia** [CCMA<sup>+17</sup>]. **rhamnose** [LFD<sup>+17</sup>]. **Rhinobatos** [AFA<sup>+12</sup>]. **Rhinoptera** [BB11, VPCM19]. **Rhinopteridae** [BB11]. **rhizoid** [DSLR16]. **Rhizopriodonodon** [BA13]. **Rhodococcus** [PBMB11]. **Rhogostoma** [DT16]. **rhombus** [LPVGL<sup>+10</sup>]. **rhusiopathiae** [CSA<sup>+15</sup>]. **rhusiopathiae-** [CSA<sup>+15</sup>]. **ribavirin** [HLP<sup>+16</sup>]. **rice** [MRR<sup>+14</sup>, RNM<sup>+12</sup>]. **rice-field** [MRR<sup>+14</sup>, RNM<sup>+12</sup>]. **rich** [HBH<sup>+19</sup>, YFA<sup>+17</sup>]. **Richardson** [BA13, CSA<sup>+15</sup>, HBB14, KSAB<sup>+14</sup>, MKKM15, XQS<sup>+15</sup>, ZZA<sup>+14</sup>]. **rickettsia** [BMH<sup>+19</sup>, GBO<sup>+18</sup>, LLS<sup>+11</sup>, MTG<sup>+10</sup>, RPJ<sup>+18</sup>]. **rickettsia-like** [BMH<sup>+19</sup>, GBO<sup>+18</sup>, LLS<sup>+11</sup>, MTG<sup>+10</sup>, RPJ<sup>+18</sup>]. **Rickettsiales** [CSS<sup>+16</sup>, GMB<sup>+17</sup>]. **Rickettsiales-like** [GMB<sup>+17</sup>]. **rifampicin** [GPL<sup>+12</sup>, OFA11]. **rifampicin-attenuated** [GPL<sup>+12</sup>]. **rifampicin-resistant** [OFA11]. **RIG** [NSE<sup>+17</sup>]. **RIG-I-like** [NSE<sup>+17</sup>]. **Risk** [YAHWU11, JMD<sup>+18</sup>, KAS<sup>+18</sup>, MKKM15, NSC<sup>+15</sup>, PPF<sup>+12</sup>, TRS19, WMM<sup>+16</sup>]. **Risso** [MKH<sup>+11</sup>, RVB13, dSRSHGá<sup>+19</sup>]. **ritteri** [SPTDEE<sup>+15</sup>]. **River** [BPPKJ10, HOHG13, JMHK18, PHR14, SBW<sup>+18</sup>, ARR<sup>+18</sup>, MKI<sup>+15</sup>, ZSZF16, BLP10, DIH<sup>+16</sup>, HWO<sup>+17</sup>, áKÁGA16, LEM<sup>+19</sup>]. **Rivers** [HGPDI11, LUP<sup>+18</sup>, MJ17]. **rivulatus** [YCNW18]. **RLO** [BMH<sup>+19</sup>]. **RLRs** [NSE<sup>+17</sup>]. **RMS** [GRB<sup>+17</sup>]. **RNA** [CGG<sup>+10</sup>, EDN18, GMN12, HLP<sup>+16</sup>, HMP<sup>+12</sup>, KKT<sup>+18b</sup>, PPE<sup>+18</sup>, WNSAL12]. **RNA-dependent** [HLP<sup>+16</sup>, CGG<sup>+10</sup>]. **RNAi** [GSBEM15]. **rock** [JJV<sup>+15</sup>, JLJ16]. **rockfish** [HKK<sup>+11a</sup>, PSK<sup>+12</sup>, ZxYJ<sup>+19</sup>]. **Rodlet** [SJT14, BDM<sup>+18</sup>]. **Rodney** [Rob14a]. **rogercresseyi** [BNS13, FVAVMGE18, GAVC16, GOM<sup>+19</sup>, HBS<sup>+14</sup>, MSMM19, MGM<sup>+18</sup>, VMBGE17, YAHWU11]. **rohita** [KREM14, SSSP18]. **role** [BCLM<sup>+19</sup>, BPCS19, DJQ<sup>+12</sup>, HGX<sup>+19</sup>, HOHG13, KSS<sup>+15</sup>, NFA15, NLC<sup>+16</sup>, NBJ10, PJZB19, RAS<sup>+10</sup>, STIG17, TWJP10, WYZ<sup>+19</sup>, XJL<sup>+19</sup>].

**Roles** [MoSMS18, WLX<sup>+</sup>10, ZZQ<sup>+</sup>19]. **roretzi** [KOS<sup>+</sup>10, PZL<sup>+</sup>14]. **rosenbergii** [FMT<sup>+</sup>14, HO13, LYKN18, RSGB<sup>+</sup>14, SPP<sup>+</sup>18, WCW16a]. **Rosmarinus** [ZTF<sup>+</sup>10]. **rostrata** [LML12]. **rotiferianus** [ZxYJ<sup>+</sup>19]. **rotundus** [ZWLG10]. **rough** [HRNW15]. **roughtail** [CBFM16]. **round** [GFB<sup>+</sup>19]. **route** [SHJ<sup>+</sup>12]. **routes** [BKD17, CMH<sup>+</sup>17, DDBC<sup>+</sup>15, FYO<sup>+</sup>11, KSA<sup>+</sup>10]. **rPCR** [LMG<sup>+</sup>19]. **rpoB** [RB15]. **rpoS** [HGX<sup>+</sup>19]. **rRNA** [DPMK12, LWWS14, OBR<sup>+</sup>14, RB15]. **RT** [AGB<sup>+</sup>19, GBSF12, HGB<sup>+</sup>11, JKS<sup>+</sup>13, KKT<sup>+</sup>18b, LMG<sup>+</sup>19, SKN<sup>+</sup>16, VLVS<sup>+</sup>16, VCOD17, YWW<sup>+</sup>19]. **RT-LAMP** [YWW<sup>+</sup>19]. **RT-PCR** [GBSF12, HGB<sup>+</sup>11, JKS<sup>+</sup>13, SKN<sup>+</sup>16]. **RT-PCR-DNA** [KKT<sup>+</sup>18b]. **RT-qPCR** [AGB<sup>+</sup>19, VLVS<sup>+</sup>16, VCOD17]. **RT-rPCR** [LMG<sup>+</sup>19]. **RTG** [PMW<sup>+</sup>10]. **RTG-2** [PMW<sup>+</sup>10]. **RTGE** [DPTCF10, RBL<sup>+</sup>11]. **rubripes** [KOI<sup>+</sup>14, MKMY10]. **ruckeri** [ASA10, AHTCA<sup>+</sup>17, CMH<sup>+</sup>17, DS10, DSSB18, DSSB19, GTGCM19, GCNB18, GTH11, JKL<sup>+</sup>13, KSM<sup>+</sup>17, KJW<sup>+</sup>12, NCNB18, SON<sup>+</sup>18, TALA11, TDH<sup>+</sup>10, WNCR12]. **Ruditapes** [ACYC10, DABO<sup>+</sup>17, FBVC16]. **Rudolphi** [FŠK<sup>+</sup>19, MGH<sup>+</sup>14]. **rudolphii** [DMB<sup>+</sup>16]. **rufa** [VME<sup>+</sup>19]. **ruffe** [MGM<sup>+</sup>16]. **runts** [MGH<sup>+</sup>14]. **rupestris** [BT14]. **Russia** [DKBS17]. **Russian** [RFA<sup>+</sup>14]. **ruthenus** [RHSM<sup>+</sup>18b].

**s** [ZWLG10, PLCC11]. **S.** [NMIY14, SWWN<sup>+</sup>16]. **sabinus** [SCZM19]. **sac** [KEY<sup>+</sup>15]. **sacculitis** [LWMT10]. **Saddleback** [Dig13, FPK<sup>+</sup>17, Dig15, Pol15]. **Safety** [LML12]. **salar** [ACN12, ACA<sup>+</sup>16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, Ano10c, ACM<sup>+</sup>14, BSSH17, BMT<sup>+</sup>15, BTC<sup>+</sup>17, BHA<sup>+</sup>17, BNS13, BSBH10, CBLN13, CJB<sup>+</sup>15, CRAG<sup>+</sup>12, DTF<sup>+</sup>16, DKG<sup>+</sup>17, DLLB<sup>+</sup>18, DMB<sup>+</sup>19, DRG<sup>+</sup>17, ESBE18, ECP<sup>+</sup>10, FMM<sup>+</sup>19, FFP<sup>+</sup>14, FHFF15, FMH<sup>+</sup>15, GFO<sup>+</sup>13, GFS<sup>+</sup>18, GMC<sup>+</sup>16a, GSS<sup>+</sup>10, GGH<sup>+</sup>10, GAVC16, GCMG<sup>+</sup>11, GMC<sup>+</sup>16b, GBSF12, GFR<sup>+</sup>12, GRT12, GHB<sup>+</sup>11, GCGR13, HHO14, HSA17, HST<sup>+</sup>13, IPW<sup>+</sup>13, IAR<sup>+</sup>10, JCN<sup>+</sup>13, JKO<sup>+</sup>13, JCN<sup>+</sup>14, JWO<sup>+</sup>10, JTW<sup>+</sup>10, JBO<sup>+</sup>15, JOF<sup>+</sup>19, JNS<sup>+</sup>19, JHGR13, JJSJ15, KAF<sup>+</sup>19, KSA<sup>+</sup>10, KRFT14, KBD13, KWD<sup>+</sup>16, LDÁM14, LAN<sup>+</sup>14, LMG<sup>+</sup>19, MKI<sup>+</sup>15, MIO<sup>+</sup>18, MMWK19, MSMM19, MSG<sup>+</sup>18, MLMR16, MLER<sup>+</sup>18, MSBB<sup>+</sup>16, MLF<sup>+</sup>10, MRSC13, MAC<sup>+</sup>15, MID<sup>+</sup>19b, MID<sup>+</sup>19a, MSR<sup>+</sup>10, MGH<sup>+</sup>14, MMH10, NCNB18, NB10, PdLC19, PBMB11, PHVM13, PPK<sup>+</sup>13, PPI<sup>+</sup>13, PÅD18, PJU<sup>+</sup>13, RB15, RMR14, RSIP<sup>+</sup>17, SMR10, SMM<sup>+</sup>13, SHKF16, SFR<sup>+</sup>17, SAS<sup>+</sup>19, SFU<sup>+</sup>13]. **salar** [SG12, STES14, SWWN<sup>+</sup>16, SWS<sup>+</sup>16, SKJ13, SSA13, SNK<sup>+</sup>19, TWNB<sup>+</sup>12, TJB<sup>+</sup>15, TCC10a, TES11, TCM<sup>+</sup>19, Tre12, USM17, VSDS<sup>+</sup>19a, VDMJ<sup>+</sup>13, WDM<sup>+</sup>15, WMM<sup>+</sup>16, WNLF<sup>+</sup>12, WNSAL12, WNAF<sup>+</sup>13, WNMK<sup>+</sup>16, WNAJ<sup>+</sup>16, YP17, ZCCN13, ZNHC11a, ZNHC11b]. **Salaria** [VPP<sup>+</sup>12]. **salaris** [HHO14, HKG<sup>+</sup>15, KHG<sup>+</sup>17, PHVM13, WKK12]. **salinities** [NNCLGC<sup>+</sup>11]. **salinity** [CCHL13, KCL14, LTC17, PST<sup>+</sup>16, TTL<sup>+</sup>16]. **Salmincola** [VCLW16, STF<sup>+</sup>15]. **Salmo** [ACN12, AGFG19, ACA<sup>+</sup>16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, Ano10c, ACM<sup>+</sup>14, BSPS<sup>+</sup>18, BSSH17, BMT<sup>+</sup>15, BTC<sup>+</sup>17, BHA<sup>+</sup>17, BNS13, BSBH10, CBLN13,

CJB<sup>+15</sup>, CRAG<sup>+12</sup>, DTF<sup>+16</sup>, DKG<sup>+17</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DRG<sup>+17</sup>, ESBE18, ECP<sup>+10</sup>, FMM<sup>+19</sup>, FFP<sup>+14</sup>, FHFF15, FMH<sup>+15</sup>, GFO<sup>+13</sup>, GFS<sup>+18</sup>, GMG<sup>+19</sup>, GMC<sup>+16a</sup>, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GAVC16, GCMG<sup>+11</sup>, GMC<sup>+16b</sup>, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13, HHO14, HSA17, HST<sup>+13</sup>, IPW<sup>+13</sup>, IAR<sup>+10</sup>, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JCN<sup>+14</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JBO<sup>+15</sup>, JOF<sup>+19</sup>, JNS<sup>+19</sup>, JHGR13, JJSJ15, KAF<sup>+19</sup>, KSA<sup>+10</sup>, KRFT14, KBD13, KWD<sup>+16</sup>, LDÁM14, LAN<sup>+14</sup>, LMG<sup>+19</sup>, MKI<sup>+15</sup>, MIO<sup>+18</sup>, MMWK19, MSMM19, MSG<sup>+18</sup>, MLMR16, MLER<sup>+18</sup>, MSBB<sup>+16</sup>, MLF<sup>+10</sup>, MRSC13, MAC<sup>+15</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSR<sup>+10</sup>, MGH<sup>+14</sup>, MMH10, NCNB18, NB10, OSC<sup>+14</sup>, PdLC19, PBMB11, PGF<sup>+19</sup>, PHVM13, PPK<sup>+13</sup>, PPI<sup>+13</sup>, PÅD18, PJU<sup>+13</sup>, RB15, RMR14, RSIP<sup>+17</sup>, SMR10]. **Salmo** [SMM<sup>+13</sup>, SHKF16, SFR<sup>+17</sup>, SAS<sup>+19</sup>, SFU<sup>+13</sup>, SG12, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, SKJ13, SSA13, SNK<sup>+19</sup>, TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TES11, TCM<sup>+19</sup>, Tre12, USM17, VSDS<sup>+19a</sup>, VDMJ<sup>+13</sup>, WDM<sup>+15</sup>, WMM<sup>+16</sup>, WNLF<sup>+12</sup>, WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, YP17, ZCCN13, ZNHC11a, ZNHC11b]. **salmoides** [CGAS19, PBBG19, ZLX<sup>+19</sup>]. **Salmon** [CCCTA<sup>+14</sup>, GTT<sup>+17</sup>, GCM<sup>+18b</sup>, LASRA<sup>+19</sup>, TJA<sup>+13</sup>, AHH16, AH16, ADF14, ADMF15, ATM<sup>+10</sup>, ACN12, AAUHW15, ACA<sup>+16</sup>, AAV<sup>+16</sup>, ASSP<sup>+15</sup>, Ano10c, ACM<sup>+14</sup>, AHTCA<sup>+17</sup>, BHT<sup>+17</sup>, BHO<sup>+19</sup>, BMT<sup>+15</sup>, BTC<sup>+17</sup>, BHA<sup>+17</sup>, BPPKJ10, BLP10, BNS13, BMH<sup>+19</sup>, BDD<sup>+18</sup>, BSBH10, CBLN13, CJB<sup>+15</sup>, CGR17, CHWM<sup>+19</sup>, CRAG<sup>+12</sup>, DTF<sup>+16</sup>, DKG<sup>+17</sup>, DWP<sup>+19</sup>, DPD<sup>+18</sup>, DLLB<sup>+18</sup>, DMB<sup>+19</sup>, DRG<sup>+17</sup>, DPADO16, DYML<sup>+18</sup>, EYF<sup>+19</sup>, EDN18, ESBE18, ECP<sup>+10</sup>, EWRH13, FMM<sup>+19</sup>, FSB18a, FFP<sup>+14</sup>, FHFF15, FMH<sup>+15</sup>, FSV<sup>+18</sup>, FSB<sup>+18c</sup>, GL18, GFO<sup>+13</sup>, GFS<sup>+18</sup>, GGMG18b, GVB<sup>+17b</sup>, GBO<sup>+18</sup>, Gis18, GTH11, GSS<sup>+10</sup>, GGH<sup>+10</sup>, GCMG<sup>+11</sup>, GMC<sup>+16b</sup>, GFW<sup>+10</sup>, GBSF12, GFR<sup>+12</sup>, GRT12, GHB<sup>+11</sup>, GCGR13, GCS<sup>+18</sup>, HHO14, HWM<sup>+13</sup>, HGH<sup>+18</sup>, HSA17, HST<sup>+13</sup>, IAR<sup>+10</sup>, IOO15, JCN<sup>+13</sup>, JKO<sup>+13</sup>, JCN<sup>+14</sup>, JWO<sup>+10</sup>, JTW<sup>+10</sup>, JJB15, JMF<sup>+18</sup>, JBO<sup>+15</sup>, JOF<sup>+19</sup>, JNS<sup>+19</sup>, JR19, JHGR13, JJSJ15, KOB<sup>+17</sup>, KBE<sup>+14</sup>]. **salmon** [KAF<sup>+19</sup>, KHG<sup>+17</sup>, KSA<sup>+10</sup>, KRFT14, KBD13, KWD<sup>+16</sup>, LDÁM14, LAN<sup>+14</sup>, LMG<sup>+19</sup>, LDA<sup>+19</sup>, LST<sup>+12</sup>, LF16, LF18, LGJ19, LWMT10, MKI<sup>+15</sup>, MIO<sup>+18</sup>, MMWK19, MSMM19, MSG<sup>+18</sup>, MLMR16, MLER<sup>+18</sup>, MSBB<sup>+16</sup>, MLF<sup>+10</sup>, MRSC13, MAC<sup>+15</sup>, MID<sup>+19b</sup>, MID<sup>+19a</sup>, MSR<sup>+10</sup>, MUM<sup>+19</sup>, MGH<sup>+14</sup>, MTHB13, MPS<sup>+18</sup>, MMH10, NRF<sup>+18</sup>, NCNB18, NB10, NLC<sup>+16</sup>, NBJ10, OWM<sup>+17</sup>, OM10, OBFR12, PdLC19, PBMB11, PHVM13, PPK<sup>+13</sup>, PPI<sup>+13</sup>, PÅD18, PJU<sup>+13</sup>, PMPG<sup>+16</sup>, PPE<sup>+18</sup>, RB15, RMR14, RRG<sup>+19</sup>, RSIP<sup>+17</sup>, RSPA<sup>+18</sup>, SMR10, SMJ<sup>+12</sup>, SMM<sup>+13</sup>, SFR<sup>+17</sup>, SAS<sup>+19</sup>, STF<sup>+15</sup>, SFU<sup>+13</sup>, SG12, STES14, SWWN<sup>+16</sup>, SWS<sup>+16</sup>, SJK<sup>+14</sup>, SVY<sup>+14</sup>, SSA13, SSL18, SNK<sup>+19</sup>, TWNB<sup>+12</sup>, TJB<sup>+15</sup>, TCC10a, TVK<sup>+19</sup>, TES11, TES16, TCM<sup>+19</sup>, Tre12, UMMS17, USM17, UKS<sup>+18</sup>, VSDS<sup>+19a</sup>, VDMJ<sup>+13</sup>, VMBGE17, WDM<sup>+15</sup>, WMM<sup>+16</sup>, WHR<sup>+18</sup>, WNLF<sup>+12</sup>, WNSAL12, WNAF<sup>+13</sup>, WNMK<sup>+16</sup>, WNAJ<sup>+16</sup>, WNGS<sup>+17</sup>]. **salmon** [WOD16, WNO<sup>+18</sup>, YP17, ZCCN13, ZCC<sup>+15</sup>, ZNHC11a, ZNHC11b, BSSH17, GMC<sup>+16a</sup>, LLLG18, WNGS<sup>+17</sup>]. **salmonicida**

[BBP18, MLEM16, NLC<sup>+</sup>16, SWM<sup>+</sup>15, VSS17, BKS<sup>+</sup>17, BKD17, BLFRCQ10, BVK<sup>+</sup>16, DLCF13, EDV<sup>+</sup>18, GDN<sup>+</sup>16, GLK<sup>+</sup>16, HKK<sup>+</sup>11a, KBJ<sup>+</sup>13, KBD13, MSC<sup>+</sup>17, MLEM16, NLC<sup>+</sup>16, PFJ<sup>+</sup>10, RVC18, RPM<sup>+</sup>19, SSHEM11, SSC17, VSS17, VSDS<sup>+</sup>19a, VDD<sup>+</sup>18, VC17, YFA<sup>+</sup>17].

**salmonicola** [MSR<sup>+</sup>10]. **Salmonid** [Ano10c, JTW<sup>+</sup>10, BKG<sup>+</sup>18, BTC<sup>+</sup>17, CGR17, DLCF13, EBM<sup>+</sup>18, FGR<sup>+</sup>12, GB18, GFW<sup>+</sup>10, GFM<sup>+</sup>11, GFR<sup>+</sup>12, GRF14, HDWM15, HFT<sup>+</sup>12, HST<sup>+</sup>13, HJT<sup>+</sup>16, HB12, JJB15, JJM<sup>+</sup>17, MIO<sup>+</sup>18, MR11, NSE<sup>+</sup>17, PSR<sup>+</sup>11, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SJDC<sup>+</sup>13, SBH<sup>+</sup>16, SHV<sup>+</sup>16, SKJ13, TJB<sup>+</sup>15, WKW<sup>+</sup>11, WNCR12, YSV<sup>+</sup>13, YVM<sup>+</sup>14].

**salmonids** [BSPS<sup>+</sup>18, BRB<sup>+</sup>12, CLGP15, CHV<sup>+</sup>12, GGMG18b, GAC10, JNN<sup>+</sup>11, áKÁGA16, KKKA17, MMB<sup>+</sup>15, MJ17, RMSH09, SDWA18, TJA<sup>+</sup>13, VCS<sup>+</sup>19, YAHWU11]. **salmoninarum** [BPMI<sup>+</sup>16, BAMYAH19, EAM<sup>+</sup>13, HDWM15, áKÁGA16, LMG<sup>+</sup>19, PFJ<sup>+</sup>10, PMPG<sup>+</sup>16, STF<sup>+</sup>15, TCFáS19, TCS19, YDO<sup>+</sup>16]. **salmoninarum-infected** [HDWM15]. **salmoniphilum** [ACM<sup>+</sup>14, RFA<sup>+</sup>14, ZNHC11a, ZNHC11b].

**salmonis** [FSB18a, WNGS<sup>+</sup>17, AHH16, AH16, BRL<sup>+</sup>13, BDD<sup>+</sup>18, CRO<sup>+</sup>18, CIL<sup>+</sup>17, DLLB<sup>+</sup>18, DRG<sup>+</sup>17, EDN18, FCL<sup>+</sup>19, GAC10, GCGR13, HH13b, HBB<sup>+</sup>15, HKB<sup>+</sup>16, IPW<sup>+</sup>13, ISCF<sup>+</sup>19, JCN<sup>+</sup>13, JCN<sup>+</sup>14, JR19, JHGR13, KRFT14, LCV<sup>+</sup>17, LLG<sup>+</sup>15, LP17, LGJ19, MB17, MSG<sup>+</sup>18, MLRS<sup>+</sup>17, MFHHG18, MID<sup>+</sup>19b, MUM<sup>+</sup>19, NRF<sup>+</sup>18, NLC<sup>+</sup>16, NBJ10, OWM<sup>+</sup>17, OM10, PVIM18, PJZB19, PPI<sup>+</sup>13, PFC<sup>+</sup>13, RGD<sup>+</sup>13, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, RE14, SHO<sup>+</sup>17, SMR10, SMM<sup>+</sup>13, SMR16, SHKF16, SFU<sup>+</sup>13, SDR<sup>+</sup>15, SCR<sup>+</sup>15, SSA13, USM17, WWE<sup>+</sup>13, YSV<sup>+</sup>13, YVM<sup>+</sup>14]. **salts** [SHS14].

**saltwater** [HCCM12]. **Salvelinus** [CMR<sup>+</sup>16, DGS<sup>+</sup>14, SWM<sup>+</sup>15, WKK12].

**sample** [ZCCN13]. **samples** [CPdPP16, FSG<sup>+</sup>12, HSA17, LTM<sup>+</sup>19, TSS18, TVK<sup>+</sup>19]. **sampling** [FCM<sup>+</sup>19, MTAB15]. **sand** [LL11]. **Sander** [BAH<sup>+</sup>16, GRP<sup>+</sup>15, VBL<sup>+</sup>16, VKK<sup>+</sup>19]. **sandwich** [ZLN<sup>+</sup>17].

**sanguinarine** [LWJ<sup>+</sup>16]. **sanguineus** [HCW<sup>+</sup>16, ZWY<sup>+</sup>11]. **Santa** [CdAPdC<sup>+</sup>19]. **Santos** [DAO19]. **sapidus** [FSM<sup>+</sup>16]. **Saprolegnia** [AS17, ASS19, KBE<sup>+</sup>14, PPF<sup>+</sup>12, RDW18, SCD19, SSSP18, STES14, SWWN<sup>+</sup>16, SWS<sup>+</sup>16, TFG19, TES11, TES16]. **saprolegniasis** [BAH<sup>+</sup>16].

**saprolegniosis** [AGFG19, GPFGAG19]. **sarana** [SMD<sup>+</sup>12]. **sarba** [SGR<sup>+</sup>18]. **sarcoma** [CIA<sup>+</sup>18]. **sardine** [GMP<sup>+</sup>11]. **Sardinella** [GMP<sup>+</sup>11]. **Sardinia** [APP<sup>+</sup>17]. **Saskatchewan** [SGQ<sup>+</sup>15]. **sativa** [MA16]. **sativum** [MSCH14]. **saurida** [KSAB<sup>+</sup>14]. **Sauvage** [BAD<sup>+</sup>12, CTK<sup>+</sup>10, SMV<sup>+</sup>14, SZZSFN<sup>+</sup>14]. **SAV** [Ano10c, JTW<sup>+</sup>10, KSA<sup>+</sup>10, NSE<sup>+</sup>17, RRG<sup>+</sup>19, SBH<sup>+</sup>16]. **SAV2** [HST<sup>+</sup>13]. **SAV3** [BTC<sup>+</sup>17, CGR17, JMF<sup>+</sup>18]. **saxatilis** [DBS12, SBM<sup>+</sup>11]. **scad** [BHW<sup>+</sup>11, HHM<sup>+</sup>14]. **scale** [ASB<sup>+</sup>12, GKCC<sup>+</sup>12, SPP<sup>+</sup>18, SDM<sup>+</sup>19, ZDWH18]. **scallop** [BRL<sup>+</sup>13]. **scanning** [BCM<sup>+</sup>17]. **SCAR** [DBM<sup>+</sup>14]. **scherzeri** [KHC<sup>+</sup>18, SWD<sup>+</sup>14]. **Schistocephalus** [WFH<sup>+</sup>18]. **Schlegel** [CONN10, FNISE12, GH<sup>+</sup>11, HKK<sup>+</sup>11b, JKC<sup>+</sup>11, JJV<sup>+</sup>15, KSS<sup>+</sup>15, KYK<sup>+</sup>12, KLW10, LKS<sup>+</sup>13,

MKK<sup>+11</sup>, MKMY10, NSS<sup>+17</sup>, OMO<sup>+15</sup>, SSJ<sup>+19</sup>, YYF<sup>+10</sup>, ZCC18]. **schlegeli** [HKK<sup>+11a</sup>]. **schlegelii** [LLDL13, ZxYJ<sup>+19</sup>]. **Schlei** [KAST17]. **Schneider** [CCM<sup>+11</sup>]. **schubertii** [CLZ<sup>+12</sup>, LL12, LGC<sup>+19</sup>]. **Schultz** [LLG<sup>+15</sup>]. **schwanenfeldii** [ARR<sup>+18</sup>]. **schwannoma** [MLR<sup>+12</sup>]. **Sciaenidae** [EKS<sup>+13</sup>]. **Sciaenocotyle** [TAQ<sup>+10</sup>]. **Scleropages** [KVC<sup>+16</sup>]. **Scombridae** [CZB<sup>+11</sup>]. **scophthalmi** [ERÁpSB14]. **Scophthalmus** [HMW11, LPVGL<sup>+10</sup>, LBF<sup>+14</sup>, MBB12, QXW14, SODB16, WM19, dOAPLá<sup>+17</sup>]. **Scophthalmus** [JCS11]. **Scortum** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>]. **Scotia** [SCD19]. **Scotland** [GFR<sup>+12</sup>, GWM12, MMH10, SMR16, SDI<sup>+18</sup>, SWE<sup>+19</sup>]. **Scottish** [MMBS10, MRSC13, WMM<sup>+16</sup>, WMM17]. **screen** [LPCC12]. **screening** [AHH16, AH16, AS17, ABF15, BLFC12, CMS<sup>+19</sup>, GSEM13, XZZ16]. **scuticociliate** [OBR<sup>+14</sup>]. **scuticociliates** [QZZ<sup>+18b</sup>]. **Scuticociliatida** [SPP<sup>+18</sup>]. **scuticociliatosis** [LPC<sup>+18</sup>, MDF<sup>+17</sup>]. **scuticociliatosis-causing** [LPC<sup>+18</sup>]. **Scyborskaya** [PB18]. **Scylla** [LQY11]. **Scyphozoa** [PÅD18]. **Sea** [BT13, EWRH13, HGH<sup>+18</sup>, JKO<sup>+13</sup>, Kan18, PBC15, PdLC19, VPS<sup>+14</sup>, ACSB<sup>+19</sup>, BRL<sup>+13</sup>, BC11, BCBS<sup>+13</sup>, BCW<sup>+15</sup>, CD17, CKTT10, CB13, DJQ<sup>+12</sup>, DdRTM13, DPCdR14, FVAVMGE18, FPK<sup>+17</sup>, GFO<sup>+13</sup>, GBV<sup>+16</sup>, GVB<sup>+17b</sup>, GVB<sup>+17a</sup>, Gis18, GCGR13, HH13a, HH13b, HBS<sup>+14</sup>, JMD<sup>+18</sup>, JWO<sup>+10</sup>, JKH<sup>+17</sup>, JHGR13, KPT<sup>+11</sup>, KJB11, KHC<sup>+18</sup>, KLW10, LMC<sup>+16</sup>, LQL<sup>+10</sup>, LGS<sup>+14</sup>, MIO<sup>+18</sup>, MSMM19, MMH<sup>+18</sup>, MSS<sup>+17b</sup>, NRF<sup>+18</sup>, NOST<sup>+16</sup>, PST<sup>+16</sup>, PJU<sup>+13</sup>, PFC<sup>+13</sup>, RGD<sup>+12</sup>, RHVG<sup>+19b</sup>, SMR10, SMM<sup>+13</sup>, SCF<sup>+13</sup>, SDI<sup>+18</sup>, Sam10, SDJH16, SFU<sup>+13</sup>, SJK<sup>+14</sup>, SSL18, TPD<sup>+19</sup>, TMC<sup>+12</sup>, TNK12, VDMJ<sup>+13</sup>, VTM<sup>+14</sup>, WWE<sup>+13</sup>, WOD16, YAHWU11, AHB<sup>+17</sup>, GFB<sup>+13</sup>, GVLE16, LZGZ16, LHW<sup>+15a</sup>, LXL<sup>+18</sup>, PMP<sup>+18</sup>, RBWR<sup>+15</sup>, VDD<sup>+18</sup>, WMF14]. **sea-caught** [MIO<sup>+18</sup>]. **sea-ranched** [SFU<sup>+13</sup>]. **sea-reared** [JWO<sup>+10</sup>]. **sea-trout** [GFO<sup>+13</sup>]. **seabass** [FCM<sup>+19</sup>, GKCC<sup>+12</sup>, KNN19, RRC<sup>+17</sup>]. **seabream** [CVLJ<sup>+10</sup>, CVGR<sup>+13</sup>, CCME16, LLDL13, LJGRI<sup>+10</sup>, RVB13, SGR<sup>+18</sup>]. **seadragon** [LYD<sup>+15</sup>]. **Seahorse** [QZZ<sup>+18b</sup>, DSMC17, LYD<sup>+15</sup>, LKT<sup>+13</sup>, QWTL17, SBHC18, ZZQ<sup>+19</sup>]. **seahorses** [BQP12, DCV<sup>+14</sup>, OBR<sup>+14</sup>, WZQ<sup>+16</sup>]. **seal** [BK12]. **Search** [CIL<sup>+17</sup>]. **Seasonal** [EA18, LFL19, SJK<sup>+14</sup>]. **Seasonality** [YB17, YMPE13]. **seatrout** [GMG<sup>+19</sup>]. **seawater** [Ano10c, GTT<sup>+17</sup>, HRL15, JTW<sup>+10</sup>, JMF<sup>+18</sup>, KOB<sup>+17</sup>, SMJ<sup>+12</sup>]. **seawater-farmed** [KOB<sup>+17</sup>]. **seawater-reared** [GTT<sup>+17</sup>]. **sebae** [BRMG13]. **Sebastes** [HKK<sup>+11a</sup>, PSK<sup>+12</sup>, ZxYJ<sup>+19</sup>]. **Secondary** [JAJC<sup>+18</sup>, ATJS<sup>+18</sup>, HFKF17, RSB13]. **secreted** [ZWG<sup>+17</sup>]. **secretion** [EAN<sup>+18</sup>, MSG<sup>+18</sup>, RGD<sup>+13</sup>]. **secretory** [CXW<sup>+19</sup>]. **sectional** [AAUHW15]. **seeds** [MA16]. **seeking** [OWM<sup>+17</sup>]. **segment** [PAM<sup>+19</sup>]. **Selar** [HHM<sup>+14</sup>]. **selected** [AAZS<sup>+15</sup>, BMGS17, DAB<sup>+12</sup>, EAM<sup>+13</sup>, EEMCEGSP16, NJK<sup>+17</sup>, SPCR<sup>+19</sup>, TvWO<sup>+16</sup>]. **Selection** [SPS<sup>+19</sup>, YLS<sup>+19</sup>, GTGCM19]. **Selective** [BTC<sup>+17</sup>, CLW<sup>+11</sup>, CLT<sup>+14</sup>, SMF<sup>+10</sup>]. **selenium** [WPH<sup>+13</sup>]. **semi**

[CMEV17b, STS<sup>+15</sup>]. **semi-intensive** [STS<sup>+15</sup>]. **semi-quantitative** [CMEV17b]. **semilaevis** [XJL<sup>+15</sup>, ZQB<sup>+11</sup>]. **seminatural** [HKG<sup>+15</sup>]. **senegalensis** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CPP14, CPdPP16, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, MMS<sup>+16</sup>, SOA<sup>+18</sup>, VFB<sup>+12</sup>, YB17, dALF<sup>+17</sup>]. **Senegalese** [CVLJ<sup>+10</sup>, CTD<sup>+12</sup>, CRS<sup>+13</sup>, CSCCA14, FBL<sup>+14</sup>, LVADB17, MMS<sup>+16</sup>, YB17, dALF<sup>+17</sup>]. **senile** [ARL<sup>+17</sup>]. **sensing** [HBVB16, NDA<sup>+19</sup>, ZCQF15]. **sensitive** [GCNB18, HJOK11, MMBS10, MSI<sup>+15</sup>, SMF<sup>+10</sup>, WOD16, YWW<sup>+19</sup>, ZLN<sup>+17</sup>]. **Sensitivity** [AdOG<sup>+17</sup>, MMH<sup>+18</sup>, MTAB15, PFP<sup>+13</sup>, HH13b, ZCJ<sup>+18</sup>]. **sensory** [FSB18a]. **septemfasciatus** [OTN<sup>+12</sup>]. **septempunctata** [TOK<sup>+16</sup>]. **septicaemia** [AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, Ano12c, CBC<sup>+13</sup>, CDM<sup>+16</sup>, CSA<sup>+15</sup>, DPADO16, EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GGW<sup>+11</sup>, GVC<sup>+19</sup>, HLL<sup>+12</sup>, HGG<sup>+11</sup>, HPAL10, JKS<sup>+13</sup>, KKK15, KF10a, KF10b, LVADB17, MMBS10, MF12, MMW<sup>+15</sup>, NLF11, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJL<sup>+12</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SWH<sup>+14</sup>, SJ11, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WDM<sup>+15</sup>, WKW<sup>+11</sup>, ZLX<sup>+19</sup>]. **septicaemic** [OCLI<sup>+19</sup>]. **septum** [FFP<sup>+14</sup>]. **sequence** [FMA<sup>+19</sup>, ISCF<sup>+19</sup>, JSK<sup>+10</sup>, KKM<sup>+19</sup>, MBS<sup>+17</sup>, NMM<sup>+18</sup>, RDW18, VJWC<sup>+18</sup>, WMD<sup>+18</sup>, YMH<sup>+11</sup>]. **sequences** [OBR<sup>+14</sup>, RB15, TQW<sup>+14</sup>]. **sequencing** [BFC<sup>+15</sup>, CGG<sup>+10</sup>, DWL<sup>+17</sup>, EDN18, LMM<sup>+16</sup>]. **sequential** [MBT<sup>+17</sup>]. **sera** [GRF14, LLL<sup>+12</sup>]. **Serbian** [RAM<sup>+18</sup>]. **Seriola** [KHS11, MFS<sup>+17</sup>, MKH<sup>+11</sup>, NWMK16, RBAT<sup>+17</sup>, STIG17, SS17, YYF<sup>+10</sup>, dSRSHGá<sup>+19</sup>]. **seriolae** [CXW<sup>+19</sup>, KLD<sup>+18</sup>, STIG17, WCL<sup>+19</sup>]. **seriolicida** [MFS<sup>+17</sup>]. **sero** [LMAKN16]. **sero-surveillance** [LMAKN16]. **Serodiagnosis** [KKK15]. **Serological** [SDWA18, IAR<sup>+10</sup>]. **serotype** [AOAH13, AHTCA<sup>+17</sup>, BAH<sup>+18</sup>, RB15]. **serotypes** [HKK<sup>+11b</sup>]. **serovars** [FLVA10]. **Serranidae** [LXL<sup>+18</sup>, PMP<sup>+18</sup>]. **Serrasalmidae** [ANB<sup>+19</sup>, OMB<sup>+19</sup>, VDO<sup>+18b</sup>, VDO<sup>+18a</sup>]. **serrata** [LQY11]. **Serratia** [CBC<sup>+13</sup>]. **Serum** [BSD<sup>+18a</sup>, BMT<sup>+15</sup>, BSD<sup>+18d</sup>, CLC<sup>+17</sup>, LWMT10, NN11, PBC15, YK13]. **set** [GTH11]. **seven** [CGCAH12, MTAB15, PMK12]. **sevenband** [OTN<sup>+12</sup>, OKS<sup>+13</sup>]. **several** [PPE<sup>+18</sup>]. **Severe** [KHS11, CZB<sup>+11</sup>, VFB<sup>+12</sup>]. **severity** [LLS<sup>+11</sup>]. **sex** [CXK16, FVAVMGE18]. **sex-related** [FVAVMGE18]. **SGIV** [GHH<sup>+11</sup>]. **SGPV** [GGMG18b]. **shad** [WBE<sup>+17</sup>, WEPB<sup>+18</sup>]. **sharing** [MPJ<sup>+15</sup>]. **shark** [ABM<sup>+15</sup>, BA13, CBC<sup>+13</sup>, CIA<sup>+18</sup>, HKF<sup>+16</sup>, JK12, LL11, MCWL13, RBF14]. **sharkminnows** [RTM<sup>+15</sup>]. **sharks** [BOH<sup>+12</sup>, PC17]. **sharp** [OAO<sup>+12</sup>]. **sharp-tooth** [OAO<sup>+12</sup>]. **sharpnose** [BA13]. **sharpsnout** [KPT<sup>+11</sup>]. **sharptooth** [HGPD11, HOHG13, TMWV14]. **shasta** [HB12]. **shed** [RRO<sup>+13</sup>]. **shell** [ARL<sup>+17</sup>, DABO<sup>+17</sup>, MMD16, SQC<sup>+14</sup>]. **shelled** [MMMD16]. **shellfish** [BFJ11, KKK<sup>+18</sup>, KKM<sup>+19</sup>, RAS<sup>+10</sup>]. **shells** [CBM<sup>+17</sup>, CBM<sup>+18</sup>]. **Shewanella** [CDD<sup>+18</sup>, EMA17, JSJR<sup>+18</sup>, LQL<sup>+10</sup>, MP18, PPSW19, PKPG15]. **shift** [IFF<sup>+15</sup>]. **shiner** [HAP<sup>+10</sup>, LRB<sup>+17</sup>, MGN<sup>+16</sup>]. **SHK**

[LASRA<sup>+</sup>19, SHKF16]. **SHK-1** [LASRA<sup>+</sup>19, SHKF16]. **shoaling** [SSK17]. **shock** [DJQ<sup>+</sup>12, RAS<sup>+</sup>10, SNM<sup>+</sup>16, WBF<sup>+</sup>10, ZWY<sup>+</sup>11]. **shop** [KZJ<sup>+</sup>17]. **short** [LTC17]. **short-term** [LTC17]. **shortnose** [LGK<sup>+</sup>14, JMHK18]. **Showed** [KBD13]. **shows** [CXK16, VDO<sup>+</sup>18a]. **shrimp** [APG<sup>+</sup>11, BPK<sup>+</sup>17, CCLGRM<sup>+</sup>17, CNN<sup>+</sup>10, CMEV17a, CMS<sup>+</sup>17, CMEV17b, CLW<sup>+</sup>13, DCMM13, DBM<sup>+</sup>14, ESA<sup>+</sup>10, EEMCEGSP16, HVVV15, JQK14, JJS<sup>+</sup>12, KS19, KKT<sup>+</sup>18b, KKT<sup>+</sup>18a, LRD<sup>+</sup>19, MRR<sup>+</sup>14, MTK<sup>+</sup>10, NPGA<sup>+</sup>19, NSC<sup>+</sup>18, PSK<sup>+</sup>13, PHW<sup>+</sup>16, RPGCIG17, SHS14, SPTDEE<sup>+</sup>15, SRSF10, SSV<sup>+</sup>17, SSV<sup>+</sup>10, STG<sup>+</sup>10, SP15, SVM<sup>+</sup>18, TMM<sup>+</sup>15, TTL<sup>+</sup>16, TDLT<sup>+</sup>16, TDT<sup>+</sup>16, WLX<sup>+</sup>10, YTL10, YLSW14, YHY<sup>+</sup>16]. **shrimps** [BTN<sup>+</sup>18, SHW<sup>+</sup>11]. **shrinking** [LUP<sup>+</sup>18]. **shrivelling** [JYZ<sup>+</sup>14]. **shuberti** [LCZ<sup>+</sup>18]. **sialic** [ACYC10]. **Siamese** [RhAS<sup>+</sup>15]. **Siberian** [DKBS17]. **Sickeningly** [LFD<sup>+</sup>17]. **side** [ELI<sup>+</sup>17]. **siderophore** [BPMI<sup>+</sup>16]. **siderophores** [CRO<sup>+</sup>18]. **sign** [ZDWH18]. **signalling** [BSB<sup>+</sup>18, LMM<sup>+</sup>15, LMM<sup>+</sup>16, XJL<sup>+</sup>19]. **significance** [SMS<sup>+</sup>10]. **significant** [MBS<sup>+</sup>17]. **significantly** [BMD<sup>+</sup>14]. **signs** [HBB14, HCEH16, SON<sup>+</sup>18, XJL<sup>+</sup>15]. **Silurus** [MAOS<sup>+</sup>18]. **silus** [TB12]. **Silva** [KCL14]. **silver** [BSV<sup>+</sup>18, BSSB18, BSD<sup>+</sup>18b, BSD<sup>+</sup>18a, BSD<sup>+</sup>18d, CCMA<sup>+</sup>17, FHD13, KKOY19, KJW<sup>+</sup>17, LJC<sup>+</sup>19, WXL16]. **Simple** [LCR<sup>+</sup>10, MSI<sup>+</sup>15, YWW<sup>+</sup>19]. **simplex** [MGH<sup>+</sup>14]. **simplified** [KKKA17]. **Simulated** [SMR16]. **simulation** [SRD<sup>+</sup>16]. **Simultaneous** [CRAG<sup>+</sup>12, TSK<sup>+</sup>19]. **simultaneously** [KKT<sup>+</sup>18a]. **sinensis** [DML<sup>+</sup>16, DCZ<sup>+</sup>17, DCL<sup>+</sup>17, FGJ<sup>+</sup>10, HGW<sup>+</sup>19, SPP<sup>+</sup>18, SCS<sup>+</sup>12, ZB12]. **Singapore** [CWL<sup>+</sup>17, GHH<sup>+</sup>11]. **Single** [HH13b, BMMC<sup>+</sup>15, CLGP15, CPB<sup>+</sup>15, CZL<sup>+</sup>19, FCL<sup>+</sup>19, GM11, LWJ<sup>+</sup>16, NCNB18, Sam10, VCOD17]. **single-** [GM11]. **Single-dose** [HH13b, Sam10]. **Siniperca** [KHC<sup>+</sup>18, SWD<sup>+</sup>14, TIK<sup>+</sup>14a, TQW<sup>+</sup>14]. **Siphonostomatoida** [KJB11]. **sirindhornae** [SHW<sup>+</sup>11]. **site** [ESV<sup>+</sup>19b, GVLE16, PPK<sup>+</sup>13]. **sites** [Ano10c, HDWM15, HSA17, JTW<sup>+</sup>10]. **situ** [ACSB<sup>+</sup>19, CPEH15, DXX<sup>+</sup>15, DCL<sup>+</sup>17, vGJHS<sup>+</sup>11, MTA<sup>+</sup>15]. **SJNNV** [SOA<sup>+</sup>18]. **Skeletal** [AAV<sup>+</sup>16, ACA<sup>+</sup>16, BHO<sup>+</sup>19, BMT<sup>+</sup>15, GRT12, RHVG<sup>+</sup>19b, WHR<sup>+</sup>18]. **skeleton** [DPD<sup>+</sup>18]. **Skin** [LHW<sup>+</sup>15b, WA14, CSS<sup>+</sup>16, HMW11, JBO<sup>+</sup>15, LJHG14, LHW<sup>+</sup>12, MNF<sup>+</sup>15, OLVJ<sup>+</sup>13, ONA10, PWW19, PPK<sup>+</sup>13, RSF<sup>+</sup>17, SSF<sup>+</sup>17, VCN<sup>+</sup>10, VDD<sup>+</sup>18, VKK<sup>+</sup>19, XKB12, ZxYJ<sup>+</sup>19]. **skin11f** [VKK<sup>+</sup>19]. **skyensis** [RB15]. **sleepy** [ATJS<sup>+</sup>18, WZL<sup>+</sup>11]. **SLICE(R)** [PPI<sup>+</sup>13, SMM<sup>+</sup>13]. **Slovakia** [MKK<sup>+</sup>11]. **Slovene** [JZK<sup>+</sup>14]. **Slovenia** [GRB<sup>+</sup>17]. **small** [WCW16a]. **smallmouth** [SBW<sup>+</sup>18]. **Smit** [HSGD11]. **smoked** [TWNB<sup>+</sup>12]. **smolt** [JOF<sup>+</sup>19, KDA<sup>+</sup>18, LAN<sup>+</sup>14, MPS<sup>+</sup>18, NB10, RSIP<sup>+</sup>17, RSPA<sup>+</sup>18, SFR<sup>+</sup>17]. **smolts** [ECP<sup>+</sup>10, FSV<sup>+</sup>18, JCN<sup>+</sup>13, JCN<sup>+</sup>14, KAF<sup>+</sup>19, KRFT14, LGJ19, MLF<sup>+</sup>10, MID<sup>+</sup>19a, PBMB11, SFU<sup>+</sup>13]. **smooth** [HRNW15, MS16, XJL<sup>+</sup>15]. **smooth-hounds** [MS16]. **snakehead** [CHH<sup>+</sup>14, CLZ<sup>+</sup>12, DIH<sup>+</sup>16, LL12]. **snapper**

[CLWJ13, HCW<sup>+</sup>16, ZWY<sup>+</sup>11]. **SNPs** [FCL<sup>+</sup>19]. **snnubnose** [WKW13]. **sobria** [CCMA<sup>+</sup>17, FCC<sup>+</sup>13, ZWL<sup>+</sup>16]. **social** [RSF<sup>+</sup>17]. **sockeye** [BLP10, LGJ19, GMC<sup>+</sup>16a, TVK<sup>+</sup>19]. **sodium** [HHO14]. **soft** [CIA<sup>+</sup>18, KOS<sup>+</sup>10, MMMD16, MMD16, PZL<sup>+</sup>14]. **soft-shell** [MMD16]. **soft-shelled** [MMMD16]. **sole** [CVLJ<sup>+</sup>10, CTD<sup>+</sup>12, CPP14, CRS<sup>+</sup>13, CSCCA14, FBL<sup>+</sup>14, LVADB17, LPVGL<sup>+</sup>10, MMS<sup>+</sup>16, VFB<sup>+</sup>12, XJL<sup>+</sup>15, YB17, ZQB<sup>+</sup>11, dALF<sup>+</sup>17]. **Solea** [CVLJ<sup>+</sup>10, CTD<sup>+</sup>12, CPP14, CPdPP16, CRS<sup>+</sup>13, CSCCA14, FBL<sup>+</sup>14, LVADB17, MMS<sup>+</sup>16, SOA<sup>+</sup>18, VFB<sup>+</sup>12, YMBe13, YB17, dALF<sup>+</sup>17]. **soleae** [BVT<sup>+</sup>18, LPVGL<sup>+</sup>10, YMBe13]. **Soleidae** [YMBe13]. **Solen** [PDdC<sup>+</sup>14]. **solid** [YSV<sup>+</sup>13]. **solidus** [WFH<sup>+</sup>18]. **Sommerville** [MRSC13]. **sonophoresis** [LRS<sup>+</sup>17]. **sorbent** [YLX<sup>+</sup>19a, ZLN<sup>+</sup>17]. **Sordariomycetes** [ŘKH16]. **source** [OJRL10]. **sources** [CRO<sup>+</sup>18]. **South** [HGPD11, HOHG13, HWO<sup>+</sup>17, BHT<sup>+</sup>17, GMP<sup>+</sup>11, BHA<sup>+</sup>11, CCW<sup>+</sup>15, Dig13, Dig15, GFB<sup>+</sup>13, LZGZ16, LHW<sup>+</sup>15a, LXl<sup>+</sup>18, MCCN14, Pol15]. **south-east** [GMP<sup>+</sup>11, CCW<sup>+</sup>15, Pol15]. **south-western** [BHT<sup>+</sup>17]. **southeast** [RDN<sup>+</sup>12, SDM<sup>+</sup>19]. **southern** [BLSG<sup>+</sup>16, BMGS17, CNN<sup>+</sup>10, KYB<sup>+</sup>15, MSMM19, SRT<sup>+</sup>14, VDMJ<sup>+</sup>13, WWS<sup>+</sup>11, WZL<sup>+</sup>11, YAHWU11, PRWG17]. **soya** [MTLP<sup>+</sup>18b]. **sp** [BMMC<sup>+</sup>15, CHH<sup>+</sup>14, CPP14, DLPR15, DSLR16, EWH<sup>+</sup>19, FCS<sup>+</sup>18, FLC<sup>+</sup>17, HGH<sup>+</sup>16, HSHC<sup>+</sup>16, LCOZ10, LJHG14, MdOO16, MSCH14, MAOS<sup>+</sup>18, PMBM13, PMP<sup>+</sup>18, PRY<sup>+</sup>18, PLC<sup>+</sup>19b, RRC<sup>+</sup>17, SBM<sup>+</sup>11, SDZN19, SPV<sup>+</sup>18, SBK<sup>+</sup>13, SBW11, TGJCH15, VMBGIC19, VDH19, YMBe13, ZWLG10, dSdAdS<sup>+</sup>19, AOA13, BAH<sup>+</sup>18, VSS17]. **spaC** [PRY<sup>+</sup>18]. **spaC-type** [PRY<sup>+</sup>18]. **spacer** [DPMK12]. **Spain** [BSC<sup>+</sup>14, DIVC16, RAVC18, DMP10, HGB<sup>+</sup>11]. **Spanish** [RGMGG<sup>+</sup>18]. **spartansii** [LF16]. **Sparus** [BC11, CVLJ<sup>+</sup>10, CVGR<sup>+</sup>13, CCME16, DdRTM13, DPCdR14, LGS<sup>+</sup>14, MSS<sup>+</sup>17b, RHVG<sup>+</sup>19b, TPD<sup>+</sup>19]. **spat** [BVL<sup>+</sup>18]. **Spatial** [SBW<sup>+</sup>18, PHR14]. **Spatio** [ASB<sup>+</sup>12]. **Spatio-temporal** [ASB<sup>+</sup>12]. **spawning** [BPPKJ10, BK12]. **SPB** [WKW13]. **SPE0313** [HGW<sup>+</sup>19]. **special** [VGI<sup>+</sup>16]. **species** [ADMF15, ARFG13, BLL<sup>+</sup>17, BWNS<sup>+</sup>11, BOH<sup>+</sup>12, DBV<sup>+</sup>13, DCG18, DMK<sup>+</sup>19, DSJA18, FBS13, FBAS16, GCNB16, GFB<sup>+</sup>13, GOM<sup>+</sup>19, GFS<sup>+</sup>14, HY16, HZX<sup>+</sup>13, IBFL19, JSJR<sup>+</sup>19, KEY<sup>+</sup>15, KBTMH<sup>+</sup>16, KPKP10, KFK<sup>+</sup>16, KDP<sup>+</sup>17, LXl<sup>+</sup>18, ME12, MSB<sup>+</sup>19, MSS<sup>+</sup>17a, MKK<sup>+</sup>11, MPM16, MMW<sup>+</sup>15, NSS<sup>+</sup>17, NMM<sup>+</sup>18, PSVK<sup>+</sup>18, PSCFB<sup>+</sup>18, SAS<sup>+</sup>19, SN14, VMBGE17, VPP<sup>+</sup>12, VDH19, ZZC<sup>+</sup>17]. **species-specific** [IBFL19, VMBGE17]. **specific** [ACYC10, CLC<sup>+</sup>17, CLGP15, CPB<sup>+</sup>15, CSCCA14, IBFL19, KSS<sup>+</sup>15, LCR<sup>+</sup>10, MMBS10, SSV<sup>+</sup>10, SKN<sup>+</sup>16, TMM<sup>+</sup>15, VMBGE17, YGL<sup>+</sup>18, ZFZ<sup>+</sup>11]. **specifically** [MLEM16, YLS<sup>+</sup>19]. **specificity** [AdOG<sup>+</sup>17]. **spectroscopy** [WNCR12]. **speed** [MTHB13]. **sperm** [VMCM14]. **Sphaerospora** [LXL<sup>+</sup>18]. **Sphyraena** [GMP<sup>+</sup>11]. **Sphyrna** [CBC<sup>+</sup>13, MCWL13]. **Spinal** [GCWB11, CLHGK17, MLF<sup>+</sup>10, MPS<sup>+</sup>18]. **spined**

[KFK<sup>+</sup>16, PJZB19, WFH<sup>+</sup>18]. **spines** [FvdMF<sup>+</sup>18]. **spiny** [ZJDL18]. **Spironucleus** [MLWC11]. **Spiroplasma** [DXX<sup>+</sup>15, HGW<sup>+</sup>19, LXX<sup>+</sup>17]. **spirosulcatus** [YYF<sup>+</sup>10]. **spleen** [BSB<sup>+</sup>18, BLdA<sup>+</sup>18, GIW<sup>+</sup>11, Lek12, LMM<sup>+</sup>15, LMM<sup>+</sup>16, RWTB17, SWD<sup>+</sup>14, SSO<sup>+</sup>14, TIK<sup>+</sup>14a]. **splendens** [RhAS<sup>+</sup>15]. **splendidus** [BT14, MBB12]. **Splenic** [AFA<sup>+</sup>12, SKPS16, XJL<sup>+</sup>15]. **Spondylosis** [BCG<sup>+</sup>17]. **Spontaneous** [CGAS19, MLR<sup>+</sup>12, RVB13, SMS<sup>+</sup>19, dSRSHGá<sup>+</sup>19]. **spore** [TES16]. **spot** [CNN<sup>+</sup>10, CLW<sup>+</sup>13, DLCC<sup>+</sup>13, DZV10, DCZ<sup>+</sup>17, DCMM13, DBM<sup>+</sup>14, ESA<sup>+</sup>10, FSO<sup>+</sup>10, HVVV15, HZP<sup>+</sup>12, JQK14, JGI<sup>+</sup>10, JJS<sup>+</sup>12, LQY11, MTK<sup>+</sup>10, NSC<sup>+</sup>18, PSK<sup>+</sup>13, RNM<sup>+</sup>12, RPGCIG17, RDN<sup>+</sup>12, SMS<sup>+</sup>10, STS<sup>+</sup>15, SPTDEE<sup>+</sup>15, SSV<sup>+</sup>10, SP15, SVM<sup>+</sup>18, SRD<sup>+</sup>16, TMM<sup>+</sup>15, TSK<sup>+</sup>19, TTL<sup>+</sup>16, TDT<sup>+</sup>16, XKB12, YHY<sup>+</sup>16]. **spotted** [FHZ<sup>+</sup>16, KKK<sup>+</sup>18, NNC<sup>+</sup>18, SDJH16, WCL<sup>+</sup>12, XJL<sup>+</sup>19]. **spp** [BTN<sup>+</sup>18, BHF13, BGC<sup>+</sup>17, BBP18, CD17, CdAPdC<sup>+</sup>19, GJMH17, HVVV15, ICVV16, JSJR<sup>+</sup>18, KBTMH<sup>+</sup>16, KFK<sup>+</sup>16, KKKA17, MS16, NB11, PPSW19, PPE<sup>+</sup>18, TES11, TES16, XLZ<sup>+</sup>17]. **Spraguea** [FYO<sup>+</sup>11]. **Spraginiidae** [FYO<sup>+</sup>11]. **spread** [RHS<sup>+</sup>12, SJ11]. **spreading** [KAST17, TWJP10]. **spring** [EBM<sup>+</sup>18, GSBEM15, LDEH17, LFL19, MPBM<sup>+</sup>16, MGN<sup>+</sup>16, OCLI<sup>+</sup>19, SKN<sup>+</sup>16, XWP<sup>+</sup>18]. **Sproston** [GAC10, MWS17]. **Squamous** [SHAM14]. **S(R)** [CAS<sup>+</sup>18]. **sRNA** [MFHHG18]. **sRNAs** [PKLH19]. **ssDNA** [YLS<sup>+</sup>19]. **ssp** [BBP18, HCL<sup>+</sup>14]. **SSU** [OBR<sup>+</sup>14]. **SSVR1601** [ZxYJ<sup>+</sup>19]. **stability** [SG12, WGL17]. **staff** [EWRH13]. **stage** [FSB18a, MLER<sup>+</sup>18, WOD16, YK13]. **stages** [AJLK<sup>+</sup>18, EDN18, HGG<sup>+</sup>11, JHGR13, LF18, MTA<sup>+</sup>15, WFH<sup>+</sup>18, dALF<sup>+</sup>17]. **standard** [CDG<sup>+</sup>14, GCW17, LWWS14, SEK<sup>+</sup>16]. **standardized** [OLVJ<sup>+</sup>13]. **standards** [LTG<sup>+</sup>18]. **Staphylococcus** [LHW<sup>+</sup>12, OAO<sup>+</sup>12]. **starry** [LZGZ16]. **starvation** [CMEV17a, CZB<sup>+</sup>11]. **stasis** [GM11]. **state** [FLCC<sup>+</sup>14, GFS<sup>+</sup>18, JJM<sup>+</sup>17]. **states** [SPKS17, SSO<sup>+</sup>14, CDM<sup>+</sup>13, GCS<sup>+</sup>18, PTM<sup>+</sup>19]. **Statistical** [Gis18]. **status** [BSD<sup>+</sup>18a, BCBS<sup>+</sup>13, DSJA18, GJMH17, JOF<sup>+</sup>19, KSS17, PFJ<sup>+</sup>10, SMS<sup>+</sup>10]. **Steatitis** [HGPDI1]. **steelhead** [GTH11]. **Steindachner** [CSA<sup>+</sup>15, KCD<sup>+</sup>14, SWD<sup>+</sup>14, SL15]. **stellata** [LZGZ16]. **stellatus** [dSDAdS<sup>+</sup>19]. **step** [HRL15]. **stickleback** [ASW16, KFK<sup>+</sup>16, WFH<sup>+</sup>18, PJZB19]. **stimulates** [LFD<sup>+</sup>17]. **stimulation** [TQW<sup>+</sup>14]. **stinger** [MLMR16]. **stinging** [AA10]. **stingray** [CBFM16, CDM<sup>+</sup>16, SDZN19, SCZM19, MdOO16]. **stock** [BGRB14]. **stocked** [GDN<sup>+</sup>16, MP18]. **stocking** [KAST17]. **stocks** [AHJS<sup>+</sup>18, OEG<sup>+</sup>13]. **storage** [HPAL10]. **stored** [SG12]. **strain** [BVT<sup>+</sup>18, CMSHS16, DKBS17, GCCLRP<sup>+</sup>13, GGGM14, ITKH18, KF10b, KTN<sup>+</sup>16, LZZN10, OEG<sup>+</sup>13, RVC18, SVM<sup>+</sup>18, SOGR<sup>+</sup>19, TB12, VDD<sup>+</sup>18, WKW<sup>+</sup>11, YMH<sup>+</sup>11, ZxYJ<sup>+</sup>19]. **strains** [BLF<sup>+</sup>16, CIL<sup>+</sup>17, CLLF14, CRS<sup>+</sup>13, dJDAVRGM<sup>+</sup>18, FDL<sup>+</sup>17, FCL<sup>+</sup>19, GCMG<sup>+</sup>11, GRF14, GRP<sup>+</sup>15, LCV<sup>+</sup>17, MBS<sup>+</sup>19a, MNG<sup>+</sup>18, OFA11, PKPG15, PFP<sup>+</sup>13, SWM<sup>+</sup>15, SOA<sup>+</sup>18, TFG19, VTM<sup>+</sup>14, VC17, WZA10, XKBC12, ZZC<sup>+</sup>17]. **strategies**

[SWWN<sup>+16</sup>, ZCQF15]. **strategy**  
 [FLC<sup>+17</sup>, GCNB18, JMD<sup>+18</sup>, LTC17, RRO<sup>+13</sup>]. **strawberry**  
 [LLS<sup>+11</sup>, MTG<sup>+10</sup>]. **Streptocephalus** [SHW<sup>+11</sup>]. **streptococcosis**  
 [FLCC<sup>+14</sup>, LLH<sup>+14a</sup>, ZTF<sup>+10</sup>]. **Streptococcus**  
 [AAZS<sup>+15</sup>, AZSI<sup>+12</sup>, AZSSZZ13, ATP<sup>+17</sup>, BSD<sup>+18b</sup>, BMMC<sup>+15</sup>, BYAS<sup>+19</sup>,  
 BFFA<sup>+12</sup>, BDB<sup>+18</sup>, CWL<sup>+17</sup>, CGCAH12, CLLF14, CZL<sup>+19</sup>, DDBC<sup>+15</sup>,  
 DZC<sup>+16</sup>, EPA<sup>+10</sup>, GCMG<sup>+11</sup>, HKK<sup>+11b</sup>, HJOK11, HZX<sup>+13</sup>, ICSV16,  
 KNN19, LFSZ18, LLH<sup>+14a</sup>, LLH<sup>+14b</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MP18, MoSMS18,  
 NLF11, NLKA16, NMiy14, NYRS12, OGI<sup>+18</sup>, SLKE10, SFL<sup>+16</sup>, SPS<sup>+19</sup>,  
 TWYC15, VMBGIC19, VJWC<sup>+18</sup>, WZL13, XXL<sup>+19</sup>, ZKL<sup>+19</sup>, ZFZ<sup>+11</sup>].  
**Stress** [GAVC16, Czb<sup>+11</sup>, DSSB19, MLER<sup>+18</sup>, PBC15, PKLH19, TMC<sup>+12</sup>].  
**stressed** [CDG<sup>+14</sup>]. **stresses** [HGx<sup>+19</sup>]. **stricta** [BAH<sup>+16</sup>]. **strigosus**  
 [WA14]. **strings** [AHH16]. **striped**  
 [ABC<sup>+10</sup>, BVG<sup>+10</sup>, CB13, SBM<sup>+11</sup>, SMV<sup>+14</sup>, VST<sup>+19</sup>]. **Strong** [HLP<sup>+16</sup>].  
**structural** [LC17, SSV<sup>+10</sup>]. **structure**  
 [DPC<sup>+10</sup>, ISCF<sup>+19</sup>, LWZ<sup>+18</sup>, MFS<sup>+17</sup>, TPD<sup>+19</sup>, VMCM14]. **structures**  
 [DLP<sup>+13</sup>, RHVG<sup>+19b</sup>, RVC18, SMR16]. **structuring** [DJR<sup>+19</sup>]. **studied**  
 [GAC10]. **Studies** [DSA<sup>+12</sup>, DAB<sup>+12</sup>, ELI<sup>+17</sup>, HMV<sup>+17</sup>, LQY11, UKS<sup>+18</sup>,  
 CKJ<sup>+14</sup>, CLHGK17, CTK<sup>+10</sup>, GFW<sup>+10</sup>, GRF14, KF10a, LTG<sup>+18</sup>,  
 LRMN17, MMS<sup>+16</sup>, MMD16, MKMY10, RBAT<sup>+17</sup>, SRD<sup>+16</sup>, WKW<sup>+11</sup>].  
**Study** [DLLB<sup>+18</sup>, JMS13, LBF<sup>+14</sup>, AHJS<sup>+18</sup>, AOA13, AAUHW15,  
 ABT<sup>+14</sup>, BSPS<sup>+18</sup>, BCM<sup>+17</sup>, BMGS17, CXK16, CKvGJB17, CGCAH12,  
 DPTFC10, DPTCF10, DIVC16, DZV10, FLVA10, GFM<sup>+11</sup>, JWO<sup>+10</sup>, JR19,  
 JHRW17, KPT<sup>+11</sup>, LVADB17, MVM<sup>+18</sup>, MCSM17, MID<sup>+19a</sup>, NB10,  
 QXW14, RHZA<sup>+16</sup>, RHST<sup>+16</sup>, RHSM<sup>+18b</sup>, RHSM<sup>+18a</sup>, Sam10, SWM<sup>+15</sup>,  
 SVL<sup>+17</sup>, SVV<sup>+17</sup>, VTM<sup>+14</sup>, VBL<sup>+15</sup>]. **sturgeon**  
 [BLL<sup>+17</sup>, DKBS17, LGK<sup>+14</sup>, MMD<sup>+12</sup>, RHSM<sup>+18b</sup>, RFA<sup>+14</sup>, SAD<sup>+12</sup>].  
**subclinical** [BSSH17, LMG<sup>+19</sup>]. **subclinically** [Bin14]. **subinhibitory**  
 [GTGCM19]. **sublethal** [WNO<sup>+18</sup>]. **subpopulations** [TDLT<sup>+16</sup>, TDT<sup>+16</sup>].  
**subsequent** [IPW<sup>+13</sup>]. **subsp** [ATP<sup>+17</sup>, SPKS17, YFA<sup>+17</sup>]. **subsp.**  
 [CDM<sup>+13</sup>, CDF<sup>+18</sup>, CRS<sup>+13</sup>, DABO<sup>+17</sup>, KPSP<sup>+19</sup>, KBTMH<sup>+16</sup>, MLEM16,  
 NLC<sup>+16</sup>, OJRL10, PLC<sup>+19b</sup>, SWM<sup>+15</sup>, SPS<sup>+17</sup>, SKGE13]. **subspecies**  
 [GLK<sup>+16</sup>, VC17]. **substances** [YFA<sup>+17</sup>]. **subtractive** [LZZN10]. **subtype**  
 [GL18, GRF14, HST<sup>+13</sup>, JJB15, RSP<sup>+17</sup>, RSM<sup>+18</sup>, TJB<sup>+15</sup>]. **subtypes**  
 [GFM<sup>+11</sup>, GFR<sup>+12</sup>, GLK<sup>+16</sup>]. **subunit** [COG<sup>+16</sup>, LSA<sup>+15</sup>, LXHL11].  
**success** [ACN12]. **succinicans** [GDW<sup>+15</sup>]. **sucker** [MGN<sup>+16</sup>, JMHK18].  
**suckers** [BWB<sup>+17</sup>]. **Sueur** [WKW<sup>+11</sup>]. **SufB** [PLCC11]. **suffering**  
 [ATJS<sup>+18</sup>, GRT12, GFS<sup>+14</sup>, TvWO<sup>+16</sup>]. **suggest** [GB18, TALA11].  
**suggests** [WXL16]. **suicidal** [CLGP15]. **suitability** [NJK<sup>+17</sup>]. **suitable**  
 [JKS<sup>+13</sup>, KHG<sup>+17</sup>, VLVS<sup>+16</sup>]. **sulfate** [ZCJ<sup>+18</sup>]. **sulfate-resistant**  
 [ZCJ<sup>+18</sup>]. **sulfurea** [RKH16]. **sulphate** [DBS12]. **sultana** [KAESSEM13].  
**summary** [JJM<sup>+17</sup>]. **sunfish** [ALG15, LDEH17]. **sunshine** [DBS12].  
**Superior** [HAP<sup>+10</sup>]. **supernatants** [GM10]. **supplementation**  
 [JKL<sup>+13</sup>, KSM<sup>+17</sup>, LKS<sup>+13</sup>]. **supplements** [AMA11, NFA15]. **support**

[BMBS12]. **supports** [GCS<sup>+18</sup>]. **suppression** [LZZN10]. **suratensis** [MRN<sup>+19</sup>]. **surf** [RPJ<sup>+18</sup>]. **Surface** [GCMG<sup>+11</sup>, CD17, NMiy14, OBD10]. **surfaces** [HRNW15, PDLW17]. **surfactant** [AJLK<sup>+18</sup>]. **surgeonfish** [WA14]. **Surgical** [LL11, GM11]. **surveillance** [BTN<sup>+18</sup>, BMBS12, GWM12, GCS<sup>+18</sup>, HAS<sup>+19</sup>, KOS<sup>+10</sup>, LTM<sup>+19</sup>, LMAKN16, MMBS10]. **surveilling** [HRL15]. **Survey** [MMG<sup>+11</sup>, BHT<sup>+17</sup>, GGMG18b, HSA17, JZK<sup>+14</sup>, KZJ<sup>+17</sup>, LUP<sup>+18</sup>, MSBB<sup>+16</sup>, MJ17, WDM<sup>+15</sup>]. **survival** [DMB<sup>+19</sup>, FFP<sup>+14</sup>, LTC17, LGS<sup>+14</sup>, MMS<sup>+16</sup>, SPCR<sup>+19</sup>, SFU<sup>+13</sup>, WYZ<sup>+19</sup>]. **survived** [WIC<sup>+19</sup>, WCL<sup>+12</sup>]. **Susceptibility** [BSK<sup>+10</sup>, BDD<sup>+18</sup>, GOM<sup>+19</sup>, IOO15, NSS<sup>+17</sup>, RWTB17, XKBC12, CLL<sup>+10</sup>, CBM<sup>+17</sup>, DBV<sup>+13</sup>, DCMM13, GCW17, GMC<sup>+16b</sup>, GRP<sup>+15</sup>, GHW<sup>+15</sup>, HKB<sup>+16</sup>, JKH<sup>+17</sup>, KKoy19, KBE<sup>+14</sup>, ME12, MSS<sup>+17a</sup>, NSB<sup>+18</sup>, OEG<sup>+13</sup>, PWHP18b, PFJ<sup>+10</sup>, RHTC19b, WWS<sup>+11</sup>, WKW<sup>+11</sup>, WKW13, Wen16, XWP<sup>+18</sup>, XKB12, YNL11, YCNW18]. **susceptible** [GHH<sup>+11</sup>, IFF<sup>+15</sup>, KWD<sup>+16</sup>, RSP<sup>+17</sup>, TDS<sup>+19</sup>, UMMS17]. **Suspected** [KVC<sup>+16</sup>, MSS<sup>+12</sup>, LXl<sup>+18</sup>]. **Susquehanna** [SBW<sup>+18</sup>]. **swabs** [ZCCN13]. **swamp** [AMAR18]. **swamps** [HHC<sup>+18</sup>]. **Sweet** [LFD<sup>+17</sup>]. **sweetfish** [KSS<sup>+15</sup>]. **Swim** [RKH18, BMD<sup>+14</sup>, BCG<sup>+17</sup>]. **swimbladder** [FDST16]. **swimming** [DSSB19, GMC<sup>+16b</sup>, HKF<sup>+16</sup>]. **switch** [CKJ<sup>+14</sup>]. **SYBR** [TCFáS19]. **Syphodus** [SRM<sup>+18</sup>]. **Sympysodon** [AFTEML19, RKK<sup>+19</sup>]. **Syncytial** [FKB<sup>+14</sup>, KAS<sup>+18</sup>]. **syndrome** [APG<sup>+11</sup>, BPK<sup>+17</sup>, CSS<sup>+16</sup>, CNN<sup>+10</sup>, CLW<sup>+13</sup>, DLCC<sup>+13</sup>, DZV10, DCZ<sup>+17</sup>, DCMM13, DBM<sup>+14</sup>, ESA<sup>+10</sup>, FSO<sup>+10</sup>, FPK<sup>+17</sup>, GFS<sup>+18</sup>, GKCC<sup>+12</sup>, HVV15, HZP<sup>+12</sup>, HHC<sup>+18</sup>, JQK14, JYZ<sup>+14</sup>, JGI<sup>+10</sup>, JJS<sup>+12</sup>, KEY<sup>+15</sup>, KOS<sup>+10</sup>, LQY11, LWMT10, MTK<sup>+10</sup>, MTG<sup>+10</sup>, NSC<sup>+18</sup>, OOO<sup>+11</sup>, OAO<sup>+12</sup>, PZL<sup>+14</sup>, PSK<sup>+13</sup>, RNM<sup>+12</sup>, RPGCIG17, RDN<sup>+12</sup>, RMR14, SPTDEE<sup>+15</sup>, SSV<sup>+10</sup>, SP15, SVM<sup>+18</sup>, SRD<sup>+16</sup>, SNK<sup>+19</sup>, TMM<sup>+15</sup>, TSK<sup>+19</sup>, TTL<sup>+16</sup>, TDT<sup>+16</sup>, WNLF<sup>+12</sup>, YHY<sup>+16</sup>, ZWL<sup>+16</sup>, GRB<sup>+17</sup>, GMB<sup>+17</sup>, GMC<sup>+16a</sup>]. **syndrome-associated** [JYZ<sup>+14</sup>]. **syndrome/acute** [BPK<sup>+17</sup>]. **synergism** [ZN10]. **Synergistic** [LGJ19]. **Syngnathidae** [FFLC17]. **synthase** [PLCC11]. **synthesis** [SRB12]. **system** [AGFG19, ACM<sup>+14</sup>, CBC<sup>+13</sup>, DPTFC10, DLLB<sup>+18</sup>, EAN<sup>+18</sup>, FYO<sup>+11</sup>, JJS<sup>+12</sup>, JSAB<sup>+19</sup>, áKÁGA16, KDP<sup>+17</sup>, LP17, MSG<sup>+18</sup>, PHW<sup>+16</sup>, XXL<sup>+19</sup>]. **systematic** [GCS<sup>+18</sup>, YGL<sup>+18</sup>]. **Systemic** [CGAS19, CDD<sup>+18</sup>, EKS<sup>+13</sup>, NOV<sup>+11</sup>, RSR<sup>+18</sup>, RPM<sup>+19</sup>, CPP14, DLP<sup>+13</sup>, LCOZ10, PRY<sup>+18</sup>, TCC10a]. **systems** [BSD<sup>+18b</sup>, BTN<sup>+18</sup>, BGD<sup>+17</sup>, GDW<sup>+15</sup>, LRS<sup>+17</sup>, RSB13].

**T** [BA14, NYRS12, TQW<sup>+14</sup>]. **T-cell** [NYRS12, TQW<sup>+14</sup>]. **T.** [LUP<sup>+18</sup>]. **taeniolatus** [LYD<sup>+15</sup>]. **Taeniura** [CDM<sup>+16</sup>]. **tail** [DCV<sup>+14</sup>, MSC<sup>+17</sup>, YNL11, ZJDL18]. **tailed** [DD15]. **Taiwan** [CCT<sup>+11</sup>, CLW<sup>+13</sup>, PLC<sup>+19b</sup>]. **Takahashi** [ZCC18]. **Takifugu** [KOI<sup>+14</sup>, MKMY10]. **tambaqui** [PdSG<sup>+12</sup>]. **tandem** [ACAS14, HZP<sup>+12</sup>, JGI<sup>+10</sup>]. **tank** [GAVC16, PSS17]. **tank-reared** [PSS17]. **tannic** [AMRHM18]. **tapetis** [VDD<sup>+18</sup>]. **TaqMan**

[FSO<sup>+</sup>10, LGC<sup>+</sup>19, BMBS12, FGR<sup>+</sup>12, JKS<sup>+</sup>13, ZHFC11]. **Taqman-based** [JKS<sup>+</sup>13]. **tarda** [CTD<sup>+</sup>12, COB<sup>+</sup>16, KTK17, KREM14, LKS<sup>+</sup>13, LML<sup>+</sup>13, QXW14, RSR<sup>+</sup>18, SMV<sup>+</sup>14, WZA10, ZXW<sup>+</sup>12]. **target** [MSS<sup>+</sup>17a]. **targeted** [GWM12, MPJ<sup>+</sup>15]. **targeting** [CXW<sup>+</sup>19, HLP<sup>+</sup>16, vGJKR<sup>+</sup>17]. **tarpon** [BCW<sup>+</sup>15]. **Tasmania** [ABC<sup>+</sup>10]. **Tasmanian** [SN14, ZCCN13, ZCC<sup>+</sup>15]. **Tasoh** [ARR<sup>+</sup>18]. **Taura** [APG<sup>+</sup>11]. **taurus** [LL11]. **Technical** [BHA<sup>+</sup>17]. **technique** [FNISE12, MTHB13, PSVK<sup>+</sup>18, TMWV14]. **techniques** [CPdPP16, MFES18, TCS19]. **Telangiectatic** [RHSM<sup>+</sup>18a]. **teleost** [MYWC18, SdMVS<sup>+</sup>16, ZGY<sup>+</sup>18]. **Teleostei** [Lek12, RRC<sup>+</sup>17]. **teleosts** [BDM<sup>+</sup>18, SCD19]. **Temminck** [CONN10, FNISE12, GH<sup>+</sup>11, HKK<sup>+</sup>11b, JKC<sup>+</sup>11, JJV<sup>+</sup>15, KSS<sup>+</sup>15, KYK<sup>+</sup>12, KLW10, LKS<sup>+</sup>13, MKK<sup>+</sup>11, MKMY10, NSS<sup>+</sup>17, OMO<sup>+</sup>15, SSJ<sup>+</sup>19, YYF<sup>+</sup>10, ZCC18]. **Temperature** [VCLW16, AAV<sup>+</sup>16, ASSP<sup>+</sup>15, BSPS<sup>+</sup>18, BPCS19, Bin14, CRBLC<sup>+</sup>17, DSA<sup>+</sup>12, EDV<sup>+</sup>18, FFP<sup>+</sup>14, GHB<sup>+</sup>11, HMW11, HZJ<sup>+</sup>19, IFF<sup>+</sup>15, JBO<sup>+</sup>15, JJV<sup>+</sup>15, KCL14, MPS<sup>+</sup>18, PMPG<sup>+</sup>16, SFR<sup>+</sup>17, SK15, SJK<sup>+</sup>14, VBL<sup>+</sup>15]. **temperature-dependent** [ASSP<sup>+</sup>15, HZJ<sup>+</sup>19]. **temperature-influenced** [BSPS<sup>+</sup>18]. **temperature-related** [JBO<sup>+</sup>15]. **temperatures** [FHFF15, GMN12, JPG<sup>+</sup>19, RHTC19b, SVL<sup>+</sup>17, VBL<sup>+</sup>16]. **Temporal** [PHR14, ASB<sup>+</sup>12, DIVC16, SBW<sup>+</sup>18, SVV<sup>+</sup>17]. **Temporary** [AHPR<sup>+</sup>16]. **ten** [VTM<sup>+</sup>14]. **Tenacibaculosis** [MMS<sup>+</sup>16, FBL<sup>+</sup>14]. **Tenacibaculum** [AHITC18, BMH<sup>+</sup>19, BVT<sup>+</sup>18, CSCCA14, FSG<sup>+</sup>12, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, IGLG<sup>+</sup>17, KAF<sup>+</sup>19, LITCAH19b, LPVGL<sup>+</sup>10, MMS<sup>+</sup>16, VFB<sup>+</sup>12]. **tench** [DLP<sup>+</sup>13]. **tentative** [VDH19]. **tequila** [RAM<sup>+</sup>17]. **teratoma** [RAM<sup>+</sup>17]. **term** [DIVC16, KHG<sup>+</sup>17, LTC17, MSBB<sup>+</sup>16]. **ternetzi** [SHAM14]. **terraenovae** [BA13]. **territorial** [BCL<sup>+</sup>19]. **test** [BTC<sup>+</sup>17, CLC<sup>+</sup>17, DLLB<sup>+</sup>18, HWM<sup>+</sup>13, JWO<sup>+</sup>10, SEK<sup>+</sup>16, ZWL<sup>+</sup>14]. **Testate** [DT16]. **Testicular** [Reh13]. **testing** [BVK<sup>+</sup>16, EAM<sup>+</sup>13, GCW17, HH13b, LTM<sup>+</sup>19, PPE<sup>+</sup>18, WGL17]. **tests** [LTG<sup>+</sup>18, OTN<sup>+</sup>12, TAC15]. **testudineus** [LJHG14]. **tetra** [BE19, LLG<sup>+</sup>15, Lek12, ŘKH17, ŘKH18, SHAM14, SMS<sup>+</sup>19]. **Tetracapsuloides** [BSPS<sup>+</sup>18, BPPKJ10, JZK<sup>+</sup>14, KAESEM13, MJ17, Mor12]. **Tetradecylthioacetic** [GRT12]. **Tetrahymena** [LCOZ10, SPLV<sup>+</sup>15, XZZ16]. **Tetramicra** [SFBW<sup>+</sup>17]. **tetraspanins** [WLX<sup>+</sup>10]. **TH0426** [YZW<sup>+</sup>19]. **Th1** [KBD13, CKJ<sup>+</sup>14]. **Th1-** [CKJ<sup>+</sup>14]. **Th1-/** [CKJ<sup>+</sup>14]. **Th1/Th2/Treg** [KBD13]. **Th2** [KBD13, CKJ<sup>+</sup>14]. **Th2-like** [CKJ<sup>+</sup>14]. **Thailand** [BPK<sup>+</sup>17, DLPR15, KTP<sup>+</sup>15, KYB<sup>+</sup>15, SHW<sup>+</sup>11, SHS14, STG<sup>+</sup>10, SRT<sup>+</sup>14]. **thailandensis** [SHW<sup>+</sup>11]. **their** [AHH16, BCLM<sup>+</sup>19, CPdPP16, DSSB18, DPC<sup>+</sup>10, HGH<sup>+</sup>18, HB12, JGI<sup>+</sup>10, JSJR<sup>+</sup>19, KBE<sup>+</sup>14, NFA15, PPF<sup>+</sup>12, RAS<sup>+</sup>10, SWM<sup>+</sup>15, TSK<sup>+</sup>19, TQW<sup>+</sup>14, WNMK<sup>+</sup>16]. **Thełohanellus** [LJHG14]. **them** [JMD<sup>+</sup>18]. **theory** [TALA11]. **Theragra** [WMF14]. **therapeutic** [BE19, MSCH14]. **therapy** [FLCC<sup>+</sup>14]. **thermoadapted**

[RPM<sup>+19</sup>. **thermophila** [XZZ16]. **these** [BSD<sup>+18a</sup>]. **thickening** [DRdS<sup>+10</sup>]. **thicker** [SWS<sup>+16</sup>]. **thicklip** [HSGD11]. **Thoracocharax** [dSDAdS<sup>+19</sup>]. **Three** [KTK17, WLX<sup>+10</sup>, ABVS18, KKT<sup>+18b</sup>, KFK<sup>+16</sup>, MTHB13, OEG<sup>+13</sup>, SGB<sup>+16</sup>, SPKS17, SN14, WFH<sup>+18</sup>, XKBC12, ZWG<sup>+17</sup>, PJZB19]. **Three-dimensional** [KTK17]. **three-spined** [KFK<sup>+16</sup>, WFH<sup>+18</sup>, PJZB19]. **threespine** [ASW16]. **thromboticans** [WEPB<sup>+18</sup>]. **throughout** [TWJP10]. **throughput** [BHT<sup>+17</sup>, LITCAH19b, TCFáS19]. **Thunberg** [GVLE16, GCCLRP<sup>+13</sup>, HPY<sup>+13</sup>, OTN<sup>+12</sup>, OKS<sup>+13</sup>]. **Thunnus** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **thymic** [KVC<sup>+16</sup>]. **thyynnus** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **thyrsites** [MSBB<sup>+16</sup>]. **tiburo** [CBC<sup>+13</sup>, MCWL13]. **tidal** [PHR14]. **tidepool** [SPTDEE<sup>+15</sup>]. **tigecycline** [CDW17]. **tiger** [DCMM13, DBM<sup>+14</sup>, KOI<sup>+14</sup>, LL11, MKMY10, NDA<sup>+19</sup>, PSK<sup>+13</sup>, SRSF10]. **tilapia** [ARR<sup>+18</sup>, AZSSZZ13, ACLP<sup>+19</sup>, ATP<sup>+17</sup>, AdOG<sup>+17</sup>, BMMC<sup>+15</sup>, CMS<sup>+19</sup>, CCHL13, CLLF14, CZL<sup>+19</sup>, DLPR15, DSLR16, DTJ<sup>+17</sup>, FLCC<sup>+14</sup>, FKB<sup>+14</sup>, HZX<sup>+13</sup>, ICSV16, JST<sup>+19</sup>, KAS<sup>+18</sup>, KTP<sup>+15</sup>, KBTMH<sup>+16</sup>, LLH<sup>+14a</sup>, LCZ<sup>+18</sup>, LLX<sup>+19</sup>, LLL<sup>+18a</sup>, MCW<sup>+18</sup>, MNM<sup>+18</sup>, NMV<sup>+19</sup>, NLF11, NYRS12, OGI<sup>+18</sup>, PNBK13, PCK<sup>+15</sup>, PYSS19, PLC<sup>+19b</sup>, RHTC19b, RPMRLJ<sup>+19</sup>, SPKS17, SLKE10, SL15, SKGE13, SFL<sup>+16</sup>, SPS<sup>+19</sup>, TSS18, TRS19, TvWO<sup>+16</sup>, VMBGIC19, VJWC<sup>+18</sup>, WWZ<sup>+18</sup>, WSA<sup>+18</sup>, XXL<sup>+19</sup>, YSHG18, YTGS19, YLL<sup>+18</sup>, YWW<sup>+19</sup>, ZKL<sup>+19</sup>, ZTF<sup>+10</sup>, vD14, NFF<sup>+17</sup>]. **Tilesius** [GM11]. **TiLV** [ARR<sup>+18</sup>, MCW<sup>+18</sup>]. **Timah** [ARR<sup>+18</sup>]. **Time** [JMF<sup>+18</sup>, ATM<sup>+10</sup>, AGB<sup>+19</sup>, AdOG<sup>+17</sup>, BKS<sup>+17</sup>, BKD17, BMBS12, CDF<sup>+18</sup>, CDG<sup>+14</sup>, DCL<sup>+17</sup>, FSO<sup>+10</sup>, FGR<sup>+12</sup>, FSG<sup>+12</sup>, GBV<sup>+16</sup>, GJK<sup>+11</sup>, GTH11, GBSF12, HRL15, HGB<sup>+11</sup>, JKS<sup>+13</sup>, JNN<sup>+11</sup>, KJW<sup>+12</sup>, KBJ<sup>+13</sup>, LGC<sup>+19</sup>, MMBS10, MSI<sup>+15</sup>, MLWC11, NLKA16, SK15, TCFáS19, YTL10, ZHFC11, vBVLR<sup>+16</sup>]. **time-monitoring** [AGB<sup>+19</sup>]. **timing** [GVB<sup>+17a</sup>]. **Tinca** [DLP<sup>+13</sup>]. **tips** [DCV<sup>+14</sup>]. **Tissue** [AOAH13, MRR<sup>+14</sup>, BKS<sup>+17</sup>, BTC<sup>+17</sup>, CIA<sup>+18</sup>, DdRTM13, HSHC<sup>+16</sup>, LAN<sup>+14</sup>, LRD<sup>+19</sup>, LJC<sup>+19</sup>, MB17, OKS<sup>+13</sup>, PAM<sup>+19</sup>, SSV<sup>+17</sup>, SG12, SFL<sup>+16</sup>, ZYW<sup>+10</sup>]. **tissues** [CDF<sup>+18</sup>, FBL<sup>+14</sup>, FGR<sup>+12</sup>, GMB<sup>+17</sup>, GM10, GGW<sup>+11</sup>, OBD<sup>+11</sup>, RNM<sup>+12</sup>, SSHEM11]. **titration** [CCCTA<sup>+14</sup>]. **titre** [OKS<sup>+13</sup>]. **TLR1** [SHKF16]. **TLR2** [ZZQ<sup>+19</sup>]. **TLR22** [SHKF16]. **TLR5** [QZZ<sup>+18b</sup>]. **TLR5M** [SHKF16]. **TLR5S** [SHKF16]. **Todd** [JCN<sup>+14</sup>]. **TOF** [PSVK<sup>+18</sup>, PSCFB<sup>+18</sup>]. **tolerance** [CDW17, JHGR13, SW11, WWE<sup>+13</sup>]. **toll** [PRSK10, SHKF16]. **toll-like** [PRSK10, SHKF16]. **tomentosa** [KWGS19, MWRSK17, MKK<sup>+11</sup>]. **tomographic** [LTC<sup>+14</sup>]. **tongue** [XJL<sup>+15</sup>, ZQB<sup>+11</sup>]. **tool** [HH13b, Sla14]. **tooth** [OAO<sup>+12</sup>]. **top** [EAM<sup>+13</sup>]. **topmouth** [MKK<sup>+11</sup>]. **Tor** [SM14]. **Tosh** [EW17]. **Toshio** [EW17]. **Toxicity** [PNBK13, MGF17, PCK<sup>+15</sup>, SRB12, ZPM<sup>+18</sup>]. **toxicology** [GHW<sup>+15</sup>]. **toxicosis** [DGS<sup>+14</sup>, MSS<sup>+12</sup>]. **toxin** [CCLGRM<sup>+17</sup>, NPGA<sup>+19</sup>]. **toxoid** [SWM<sup>+15</sup>]. **Toxoplasma** [SZM<sup>+15</sup>]. **Trachinotus** [AZSI<sup>+12</sup>, CWL<sup>+17</sup>, LYL<sup>+18</sup>, WKW13]. **Trachurus** [ONGQ<sup>+14</sup>]. **tracing**

[KDA<sup>+</sup>18]. **tracking** [EKT<sup>+</sup>11]. **tract** [ABF15, BT14, BLFC12, MBB12]. **Trade** [RMS<sup>+</sup>13, CDM<sup>+</sup>13]. **traded** [AHJS<sup>+</sup>18]. **trafficked** [ARFG13]. **traits** [KNN19]. **transcribed** [DPMK12]. **transcription** [FVAVMGE18, GRT12, TSS18, YWW<sup>+</sup>19]. **transcriptional** [LHW<sup>+</sup>15b, TQW<sup>+</sup>14]. **transcriptome** [FFLC17, PKLH19, VMBGE17, XJL<sup>+</sup>19, ZJR<sup>+</sup>18]. **Transcriptomic** [CRBLC<sup>+</sup>17]. **transcriptomics** [JBO<sup>+</sup>15]. **transfection** [CLL<sup>+</sup>10, WKW13]. **transfer** [BLFRCQ10, JMF<sup>+</sup>18, RHS<sup>+</sup>12]. **transform** [WNCR12]. **translationally** [NRMS14]. **transmissible** [GMC<sup>+</sup>16a]. **Transmission** [AZSSZZ13, BWS<sup>+</sup>18, CVGR<sup>+</sup>13, CBW19, FBAS16, HVVV15, HKG<sup>+</sup>15, SVY<sup>+</sup>14, AHJS<sup>+</sup>18, BMK17, FBS13, FYO<sup>+</sup>11, HGG<sup>+</sup>11, JNS<sup>+</sup>19, KS19, KSA<sup>+</sup>10, MMD16, NLC<sup>+</sup>16, PMPG<sup>+</sup>16, RMS<sup>+</sup>13, SHJ<sup>+</sup>12, STIG17, SHV<sup>+</sup>16, SMKBP17, TRS19, WMM<sup>+</sup>16, WKK12, YTKS19, YLL<sup>+</sup>18]. **transmit** [WNGS<sup>+</sup>17]. **transmitting** [CJB<sup>+</sup>15]. **transport** [SMR16, SVY<sup>+</sup>14]. **transporter** [OJRL10, WZL13]. **transversum** [FFP<sup>+</sup>14]. **treat** [ACN12, AMRHM18, LML12]. **treating** [KWGS19]. **Treatment** [LCOZ10, PB18, TNK12, BCT<sup>+</sup>17, BA14, CDW17, CB13, FVAVMGE18, GBV<sup>+</sup>16, GVB<sup>+</sup>17b, HHO14, JML19, KBE<sup>+</sup>14, MGM<sup>+</sup>18, MSCH14, RHS<sup>+</sup>12, RSH11, SMM<sup>+</sup>13, SFF<sup>+</sup>17, VGI<sup>+</sup>16, VME<sup>+</sup>19, ZTF<sup>+</sup>10]. **treatments** [BNS13, CDW17, GVB<sup>+</sup>17a]. **Treg** [KBD13]. **Trematoda** [BCM<sup>+</sup>17, PMP<sup>+</sup>18]. **triactionomyxon** [FCJH19]. **trial** [BVK<sup>+</sup>16, BSBH10, CCH<sup>+</sup>19]. **tributaries** [BWB<sup>+</sup>17]. **tributary** [MKKM15]. **Trichodina** [MUM<sup>+</sup>19]. **Trichosporon** [AMAR18]. **tricolour** [RTM<sup>+</sup>15]. **trigger** [Bin14]. **triggers** [SJK<sup>+</sup>14]. **triple** [PPI<sup>+</sup>13, SFF<sup>+</sup>17]. **triple-dose** [PPI<sup>+</sup>13]. **triploid** [ACA<sup>+</sup>16, AAV<sup>+</sup>16, GCWB11, LWZ<sup>+</sup>18, SFR<sup>+</sup>17]. **triploidy** [FHFF15, FMH<sup>+</sup>15]. **trophonts** [vGJHS<sup>+</sup>11]. **trophozoites** [WNMK<sup>+</sup>16]. **tropical** [VMCM14]. **tropism** [ADF14, ADMF15, SFL<sup>+</sup>16]. **trout** [ASA10, ASHZ<sup>+</sup>12, AOAH13, AHHR<sup>+</sup>10, AHPR<sup>+</sup>16, AJLC<sup>+</sup>16, AGFG19, ABT<sup>+</sup>14, AA10, AMA11, BSW17, BSPS<sup>+</sup>18, BCLM<sup>+</sup>19, BKD17, BHA<sup>+</sup>11, BE19, BA14, BLFC12, BAH<sup>+</sup>18, CSS<sup>+</sup>16, CGW<sup>+</sup>19, CHAB10, CKJ<sup>+</sup>14, CMH<sup>+</sup>17, CAJD<sup>+</sup>18, CPB<sup>+</sup>15, CMR<sup>+</sup>16, CLS<sup>+</sup>15, DS10, DPTFC10, DPTCF10, DMP10, DSSB18, DSSB19, DJR<sup>+</sup>19, DdRTM13, DdRCP13, DPADO16, DGS<sup>+</sup>14, DSJA18, DT16, GRB<sup>+</sup>17, GMB<sup>+</sup>17, GFO<sup>+</sup>13, GCNB16, GTH11, GPFGAG19, GDW<sup>+</sup>15, GMC<sup>+</sup>16b, HGH<sup>+</sup>18, HKBD15a, HKBD15b, HJN<sup>+</sup>19, IOO15, JKL<sup>+</sup>13, JAJC<sup>+</sup>18, JDH<sup>+</sup>18, JML19, vGJHS<sup>+</sup>11, vGJKR<sup>+</sup>17, KSM<sup>+</sup>17, KEY<sup>+</sup>15, KHG<sup>+</sup>17, KFK<sup>+</sup>16, LPA<sup>+</sup>10, LP17, LUP<sup>+</sup>18, LLS<sup>+</sup>11, MBOC19, MNF<sup>+</sup>15, MSC<sup>+</sup>17, MCSM17, MHNY18, Mor12, MTLP<sup>+</sup>18b, MNM<sup>+</sup>18, MNM<sup>+</sup>19, MKKM15, NB11, NOV<sup>+</sup>11, NDA10, OP14, OLVJ<sup>+</sup>13, OBFR12, OBD<sup>+</sup>11, OSC<sup>+</sup>14, OSAA18, OLT<sup>+</sup>10, PDLW17, PMW<sup>+</sup>10, PMH<sup>+</sup>11, PRT<sup>+</sup>14, PSBG<sup>+</sup>11, PGF<sup>+</sup>19, PLCC11, PPE<sup>+</sup>18, QPB<sup>+</sup>16]. **trout** [RSB13, ŘKH16, RCGGM15, RBL<sup>+</sup>11, RHB<sup>+</sup>15, SHJ<sup>+</sup>12, SPCR<sup>+</sup>19,

SCR<sup>+15</sup>, SVV<sup>+17</sup>, SON<sup>+18</sup>, SSC17, VSS17, XKB12, YDO<sup>+16</sup>. **trumpeter** [ABC<sup>+10</sup>, CB13]. **trutta** [BSPS<sup>+18</sup>, AGFG19, GFO<sup>+13</sup>, GMG<sup>+19</sup>, OSC<sup>+14</sup>, PGF<sup>+19</sup>]. **truttae** [MUM<sup>+19</sup>]. **Trypanorhyncha** [BB11]. **tshawytscha** [BHT<sup>+17</sup>, BMH<sup>+19</sup>, DWP<sup>+19</sup>, DPD<sup>+18</sup>, GMC<sup>+16a</sup>, GBO<sup>+18</sup>, GTH11, LST<sup>+12</sup>, LF16, LF18, LWMT10, PMPG<sup>+16</sup>, STF<sup>+15</sup>]. **TSV** [APG<sup>+11</sup>]. **Tu** [PLCC11]. **tubiashii** [DABO<sup>+17</sup>]. **tumour** [NRMS14, PHR14, Řeh13]. **Tumours** [BWB<sup>+17</sup>]. **tuna** [CZB<sup>+11</sup>, PSZ<sup>+14</sup>]. **Tunic** [KOS<sup>+10</sup>, PZL<sup>+14</sup>]. **Tunisia** [YMBE13, YB17]. **Tunisian** [CGG<sup>+10</sup>]. **turbot** [COB<sup>+16</sup>, HMW11, JCS11, LBF<sup>+14</sup>, MBB12, MDF<sup>+17</sup>, QXW14, SODB16, WM19, dOAPLá<sup>+17</sup>]. **Turkey** [SDWA18]. **Turkish** [BAH<sup>+18</sup>]. **turpisrotundus** [ZWLG10]. **tuvira** [VMCM14]. **twin** [LTC<sup>+14</sup>]. **twins** [ADR11, BQP12]. **Two** [CdAPdC<sup>+19</sup>, MS16, XZZ16, YSV<sup>+13</sup>, BSPS<sup>+18</sup>, BDM<sup>+18</sup>, CRS<sup>+13</sup>, DCG18, FLVA10, GPFGAG19, GFW<sup>+10</sup>, HKK<sup>+11b</sup>, HRL15, HLC<sup>+15</sup>, HSHC<sup>+16</sup>, LLL<sup>+12</sup>, MFHHG18, RAM<sup>+18</sup>, RB15, RTM<sup>+15</sup>, SQC<sup>+14</sup>, VDHV<sup>+16</sup>]. **two-dimensional** [LLL<sup>+12</sup>]. **two-step** [HRL15]. **type** [DJR<sup>+19</sup>, EAN<sup>+18</sup>, HBVB16, KHC<sup>+18</sup>, LGS<sup>+14</sup>, MSG<sup>+18</sup>, PBC15, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PRY<sup>+18</sup>, VJWC<sup>+18</sup>, ZWG<sup>+17</sup>]. **types** [DLP<sup>+13</sup>, VCOD17, XKB12]. **typing** [GLK<sup>+16</sup>, ISCF<sup>+19</sup>, RDW18, TCS19, VLVS<sup>+16</sup>]. **Tyrrhenian** [GFB<sup>+13</sup>].

**U** [PMW<sup>+10</sup>, PMH<sup>+11</sup>]. **U-type** [PMH<sup>+11</sup>]. **Uganda** [WMD<sup>+18</sup>]. **ulcer** [SSF<sup>+17</sup>, ZxYJ<sup>+19</sup>]. **ulcerations** [VDD<sup>+18</sup>]. **Ulcerative** [RBS<sup>+16</sup>, HHC<sup>+18</sup>, KOB<sup>+17</sup>, KPT<sup>+11</sup>, KRD<sup>+17</sup>, SJT14, VFB<sup>+12</sup>, ZWL<sup>+16</sup>]. **ultrasonographical** [RHST<sup>+16</sup>]. **Ultrastructural** [GMB<sup>+17</sup>, HFT<sup>+12</sup>, MBT<sup>+17</sup>, DCG18, SMS<sup>+19</sup>]. **ultrastructure** [CHWM<sup>+19</sup>, GFS<sup>+14</sup>, LvD18]. **Ultraviolet** [CB13, HPAL10, MUM<sup>+19</sup>]. **unaffected** [JOF<sup>+19</sup>]. **Uncovering** [VMBGE17]. **underlines** [VC17]. **underlying** [JBO<sup>+15</sup>]. **undescribed** [GLK<sup>+16</sup>]. **undosquamis** [KSAB<sup>+14</sup>]. **UNESCO** [GVLE16]. **Unexpected** [HSGD11, LHW<sup>+15a</sup>]. **United** [CDM<sup>+13</sup>, GCS<sup>+18</sup>, NSB<sup>+18</sup>, PTM<sup>+19</sup>]. **units** [HZP<sup>+12</sup>]. **unusual** [QXW14, RVC18]. **unusually** [MLWC11]. **Updated** [YLW<sup>+14</sup>]. **upon** [TTL<sup>+16</sup>]. **upper** [LEM<sup>+19</sup>, SWS<sup>+16</sup>, WBE<sup>+17</sup>, HHC<sup>+18</sup>, JMHK18]. **uptake** [RRO<sup>+13</sup>, TDLT<sup>+16</sup>]. **Urtica** [AA10]. **Uruguay** [PAZ18]. **USA** [PHR14, CGAS19, FSM<sup>+16</sup>, MTG<sup>+10</sup>, PBBG19]. **usage** [HBS<sup>+14</sup>, MLH<sup>+15</sup>]. **Use** [AA10, CMEV17b, GCGR13, SMM<sup>+13</sup>, ABF15, BW18, CHV<sup>+12</sup>, GTH11, JSJR<sup>+18</sup>, LTM<sup>+19</sup>, LLDSL13, MVM<sup>+18</sup>, RSF<sup>+17</sup>, SVL<sup>+17</sup>, SFF<sup>+17</sup>, TMWV14, VBL<sup>+15</sup>]. **used** [BNS13, DZV10, VME<sup>+19</sup>, WDM<sup>+15</sup>]. **uses** [CRO<sup>+18</sup>]. **Using** [BWM<sup>+13</sup>, SDI<sup>+18</sup>, ATM<sup>+10</sup>, ACN12, ASHZ<sup>+12</sup>, AGFG19, BE19, CMEV17a, CHB<sup>+17</sup>, DLLB<sup>+18</sup>, DWL<sup>+17</sup>, DXX<sup>+15</sup>, FCM<sup>+19</sup>, FSV<sup>+18</sup>, GPFGAG19, GFM<sup>+11</sup>, ITKH18, JYZ<sup>+14</sup>, KTN<sup>+16</sup>, KKT<sup>+18b</sup>, KKT<sup>+18a</sup>, KSA<sup>+10</sup>, LZZN10, LFH<sup>+11</sup>, LCR<sup>+10</sup>, LJGRI<sup>+10</sup>, MSI<sup>+15</sup>, MID<sup>+19a</sup>, MUM<sup>+19</sup>, MTHB13, MTA<sup>+15</sup>, OWM<sup>+17</sup>, RBAT<sup>+17</sup>, SLKE10, TCS19,

VCOD17, WCW16a, WNLF<sup>+</sup>12, XZZ16, YGL<sup>+</sup>18, YkSKY13]. **Utilization** [ZYW<sup>+</sup>10, BWM<sup>+</sup>13, EKT<sup>+</sup>11, OJRL10]. **utilizing** [ZFZ<sup>+</sup>11]. **Uttarakhand** [SM14].

**V.** [ZZC<sup>+</sup>17]. **vaccinated** [MSC<sup>+</sup>17, PBMB11]. **Vaccination** [EDV<sup>+</sup>18, FMH<sup>+</sup>15, KBD13, ASHZ<sup>+</sup>12, ESV<sup>+</sup>19b, JAJC<sup>+</sup>18, LAN<sup>+</sup>14, MBS<sup>+</sup>19a, MID<sup>+</sup>19b, NCNB18]. **vaccine** [BVK<sup>+</sup>16, BSBH10, CLWJ13, CLGP15, CCH<sup>+</sup>19, CGR17, ÇOÇ<sup>+</sup>16, CLS<sup>+</sup>15, DMK<sup>+</sup>19, ESV<sup>+</sup>19b, FLC<sup>+</sup>17, GHB<sup>+</sup>11, HLL<sup>+</sup>12, HJN<sup>+</sup>19, JKÇ<sup>+</sup>11, JOF<sup>+</sup>19, vGJKR<sup>+</sup>17, LPA<sup>+</sup>10, LLNL13, LLX<sup>+</sup>19, LXHL11, MBS<sup>+</sup>19a, MSC<sup>+</sup>17, RPMRLJ<sup>+</sup>19, RSGB<sup>+</sup>14, SCK13, SLKE10, WHR<sup>+</sup>18, ZWL<sup>+</sup>14]. **vaccine-induced** [GHB<sup>+</sup>11]. **vaccine-mediated** [JOF<sup>+</sup>19]. **vaccines** [Dal18, ELI<sup>+</sup>17, NFA15, NNC<sup>+</sup>18, ZXW<sup>+</sup>12]. **vacuoles** [LTC16]. **Vagococcus** [TCFÁS19, TCS19, YDO<sup>+</sup>16]. **Vahl** [LZGZ16]. **Valenciennes** [BCW<sup>+</sup>15, GMP<sup>+</sup>11, GGW<sup>+</sup>11, GCWB11, HLL<sup>+</sup>12, HCEH16, KHS11, LLL<sup>+</sup>12, LJGRI<sup>+</sup>10, LXHL11, MVWS13, NWMK16, PMBM13, SS17, XKBC12, YYW<sup>+</sup>14]. **Validation** [BWZ<sup>+</sup>17, CLC<sup>+</sup>17, GM10, LPCC12, BMBS12, ÇOÇ<sup>+</sup>16, EAM<sup>+</sup>13, JKS<sup>+</sup>13, KJW<sup>+</sup>12, KBJ<sup>+</sup>13, TSS18, VCOD17, vBVLR<sup>+</sup>16]. **values** [GCW17, SEK<sup>+</sup>16]. **valvularis** [WEPB<sup>+</sup>18]. **vannamei** [BTN<sup>+</sup>18, CMEV17a, CMS<sup>+</sup>17, CMEV17b, CLW<sup>+</sup>13, EEMCEGSP16, HMV<sup>+</sup>17, HXZ<sup>+</sup>16, JQK14, KS19, NNCLGC<sup>+</sup>11, RPGCIG17, SSV<sup>+</sup>17, STG<sup>+</sup>10, SNM<sup>+</sup>16, SVM<sup>+</sup>18, TMM<sup>+</sup>15, TSK<sup>+</sup>19, TTL<sup>+</sup>16, TDLT<sup>+</sup>16, TDT<sup>+</sup>16]. **vapA** [GLK<sup>+</sup>16]. **Var** [BVL<sup>+</sup>18, GVLE16]. **variability** [SBW<sup>+</sup>18, VCS<sup>+</sup>19]. **variable** [ACAS14, HZP<sup>+</sup>12, PPF<sup>+</sup>12]. **variant** [CKTT10, LDA<sup>+</sup>19, QXW14]. **variants** [BVL<sup>+</sup>18, HBVB16, MFHHG18, TOK<sup>+</sup>16]. **Variation** [GBV<sup>+</sup>16, VDHV<sup>+</sup>16, DZV10, LTC17, WNAF<sup>+</sup>13]. **variations** [HBVB16, JJB15, JGI<sup>+</sup>10]. **various** [BLL<sup>+</sup>17]. **vary** [GRP<sup>+</sup>15]. **vascular** [RSB13]. **vector** [MSB<sup>+</sup>19, NLC<sup>+</sup>16, SHV<sup>+</sup>16]. **vein** [ASW16]. **ventral** [DKG<sup>+</sup>17]. **ventricosa** [RPJ<sup>+</sup>18]. **verification** [ŘKH18, SHW<sup>+</sup>11]. **veronii** [ZWL<sup>+</sup>16, CHH<sup>+</sup>14, CYS17, DTJ<sup>+</sup>17, FMA<sup>+</sup>19, MP18, RKK<sup>+</sup>19, YZW<sup>+</sup>19]. **Verrucous** [RKPG16]. **Vertebral** [DWP<sup>+</sup>19, JHM<sup>+</sup>18, FHFF15, GHB<sup>+</sup>11, LWZ<sup>+</sup>18, LGS<sup>+</sup>14, MLF<sup>+</sup>10, dALF<sup>+</sup>17]. **vertical** [JNS<sup>+</sup>19, KSA<sup>+</sup>10, NRF<sup>+</sup>18, YTKS19]. **VERV** [GFB<sup>+</sup>13]. **VHS** [GVC<sup>+</sup>19, HLL<sup>+</sup>12, HAS<sup>+</sup>19]. **VHSV** [GMN12, GGW<sup>+</sup>11, GRP<sup>+</sup>15, MMB10, ZLX<sup>+</sup>19]. **VHSV-IVb** [GMN12]. **via** [KJW<sup>+</sup>17, PBM<sup>+</sup>15, RPMRLJ<sup>+</sup>19, TRS19, DDDBC<sup>+</sup>15]. **viability** [CAS<sup>+</sup>18, FCJH19, HPAL10, MGM<sup>+</sup>18, VCLW16]. **Vibrio** [AHAMR<sup>+</sup>19, BTN<sup>+</sup>18, BVK<sup>+</sup>16, BT14, BGC<sup>+</sup>17, BBP18, BFC<sup>+</sup>15, CLWJ13, CCLGRM<sup>+</sup>17, CCH<sup>+</sup>19, CLW<sup>+</sup>11, CKTT10, CDG<sup>+</sup>14, DD18, DJQ<sup>+</sup>12, DABO<sup>+</sup>17, FLVA10, FMB<sup>+</sup>11, HRL15, HBVB16, HXZ<sup>+</sup>16, HGX<sup>+</sup>19, ITKH18, JQK14, KTN<sup>+</sup>16, KYB<sup>+</sup>15, LLNL13, LSC<sup>+</sup>14, LSA<sup>+</sup>15, LMM<sup>+</sup>15, LMM<sup>+</sup>16, MBB12, MKMY10, NNC<sup>+</sup>18, NDA<sup>+</sup>19, PKLH19, QWTL17, QZZ<sup>+</sup>18b,

RGD<sup>+12</sup>, RRO<sup>+13</sup>, RCD<sup>+17</sup>, SSF<sup>+17</sup>, SNM<sup>+16</sup>, SCS<sup>+12</sup>, TMC<sup>+12</sup>, VDD<sup>+18</sup>, WBF<sup>+10</sup>, WZQ<sup>+16</sup>, WM19, YGL<sup>+18</sup>, YLX<sup>+19a</sup>, YLS<sup>+19</sup>, ZZC<sup>+17</sup>, ZWY<sup>+11</sup>, ZQB<sup>+11</sup>, ZJR<sup>+18</sup>, ZxYJ<sup>+19</sup>, ZXW<sup>+12</sup>, ZDWH18]. **vibrioferrin** [COB<sup>+16</sup>]. **Vibrionaceae** [NMM<sup>+18</sup>]. **Vibrios** [PDdC<sup>+14</sup>, HBH<sup>+19</sup>]. **vibriosis** [KSS17, TNK12]. **Vibrogen** [CCH<sup>+19</sup>]. **Vibrogen-2** [CCH<sup>+19</sup>]. **Victoria** [MCW<sup>+18</sup>]. **Vietnam** [BAD<sup>+12</sup>]. **Vietnamese** [CTK<sup>+10</sup>]. **Viola** [YLX<sup>+19b</sup>]. **viraemia** [EBM<sup>+18</sup>, GSBEM15, MPBM<sup>+16</sup>, OCLI<sup>+19</sup>, SKN<sup>+16</sup>]. **Viral** [AHHR<sup>+10</sup>, DVC<sup>+17</sup>, GGW<sup>+11</sup>, HPAL10, VPP<sup>+12</sup>, WKW13, WNAJ<sup>+16</sup>, AHPR<sup>+16</sup>, Ano12c, BRMG13, Bin14, DSA<sup>+12</sup>, DAB<sup>+12</sup>, DPADO16, EKED<sup>+17</sup>, GJVT<sup>+11</sup>, GFB<sup>+19</sup>, GFB<sup>+13</sup>, GMN12, GFW<sup>+10</sup>, GVC<sup>+19</sup>, HLL<sup>+12</sup>, HKD<sup>+10</sup>, HGG<sup>+11</sup>, JQK14, JKS<sup>+13</sup>, KKK15, KF10a, KF10b, KOS<sup>+10</sup>, LRD<sup>+19</sup>, LFH<sup>+11</sup>, LVADB17, LNC<sup>+17</sup>, MMBS10, MDC<sup>+18</sup>, MF12, MMW<sup>+15</sup>, NOST<sup>+16</sup>, OEG<sup>+13</sup>, PBM<sup>+15</sup>, PJL<sup>+12</sup>, RAM<sup>+18</sup>, RAM<sup>+19</sup>, RMS<sup>+13</sup>, SHJ<sup>+12</sup>, SOGR<sup>+19</sup>, SJ11, TDS<sup>+19</sup>, VLVS<sup>+16</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WDM<sup>+15</sup>, WMM17, WXL16, WKW<sup>+11</sup>, Wen16, WNSAL12, XQS<sup>+15</sup>, YNL11, ZLX<sup>+19</sup>]. **viral-induced** [XQS<sup>+15</sup>]. **viremia** [MGN<sup>+16</sup>, XWP<sup>+18</sup>]. **Virginia** [PBBG19]. **virginica** [CBM<sup>+18</sup>]. **viridans** [CG11]. **Virion** [FE11]. **Virucidal** [JST<sup>+19</sup>]. **Virulence** [BGG11, DSLR16, EBM<sup>+18</sup>, JDH<sup>+18</sup>, RPGCIG17, XXL<sup>+19</sup>, ZZC<sup>+17</sup>, BHF13, BLF<sup>+16</sup>, BGC<sup>+17</sup>, BFC<sup>+15</sup>, COB<sup>+16</sup>, CD17, CG11, CHB<sup>+17</sup>, CDG<sup>+14</sup>, DSSB18, DSSB19, EA18, FMB<sup>+11</sup>, GTGCM19, HZJ<sup>+19</sup>, HGX<sup>+19</sup>, JMS13, JJSJ15, LCV<sup>+17</sup>, LFD<sup>+17</sup>, LLLG18, LZZN10, LXZ<sup>+19</sup>, NDA<sup>+19</sup>, RCD<sup>+17</sup>, SL15, STES14, TDH<sup>+10</sup>, VSS17, VDHV<sup>+16</sup>, YZW<sup>+19</sup>, ZJDL18, ZKL<sup>+19</sup>, ZWL<sup>+16</sup>, BAMYAH19]. **Virulence-associated** [ZZC<sup>+17</sup>]. **virulence-related** [COB<sup>+16</sup>]. **virulent** [DZC<sup>+16</sup>, FNISE12, GPL<sup>+12</sup>, MAC<sup>+15</sup>, OFA11, RPM<sup>+19</sup>, WZA10]. **virus** [ADMF15, ATM<sup>+10</sup>, ARR<sup>+18</sup>, ABVS18, ASHZ<sup>+12</sup>, AOAH13, AHHR<sup>+10</sup>, AHPR<sup>+16</sup>, AAUHW15, Ano12c, APG<sup>+11</sup>, BldA<sup>+18</sup>, BWNS<sup>+11</sup>, BAH<sup>+18</sup>, CVGR<sup>+13</sup>, CCCTA<sup>+14</sup>, CNN<sup>+10</sup>, CWW<sup>+18</sup>, CGW<sup>+19</sup>, CLL<sup>+10</sup>, CLW<sup>+13</sup>, CGG<sup>+10</sup>, CMS<sup>+19</sup>, CCME16, DLCC<sup>+13</sup>, DV10, DCZ<sup>+17</sup>, DPADO16, DCMM13, DBM<sup>+14</sup>, EYF<sup>+19</sup>, ESA<sup>+10</sup>, ECP<sup>+10</sup>, EKT<sup>+11</sup>, EBM<sup>+18</sup>, EKED<sup>+17</sup>, FSO<sup>+10</sup>, FE11, GJVT<sup>+11</sup>, GL18, GFB<sup>+13</sup>, GSBEM15, GGW<sup>+11</sup>, GBSF12, GFS<sup>+14</sup>, GVC<sup>+19</sup>, GHW<sup>+15</sup>, GCS<sup>+18</sup>, HSC<sup>+16</sup>, HMV<sup>+17</sup>, HVV15, HGG<sup>+11</sup>, HZP<sup>+12</sup>, HHX<sup>+15</sup>, HPAL10, IBFL19, IOO15, JST<sup>+19</sup>, JKC<sup>+11</sup>, JQK14, JHW17, JFWH19, JNS<sup>+19</sup>, JYZ<sup>+14</sup>, JGI<sup>+10</sup>, JSK<sup>+10</sup>, JKS<sup>+13</sup>, JJS<sup>+12</sup>, JMS13, JJSJ15, KKK15, KF10a, KF10b, KKK<sup>+18</sup>, KDA<sup>+18</sup>, KBD13, KWD<sup>+16</sup>, LC17, LASRA<sup>+19</sup>, LYL<sup>+18</sup>, LRD<sup>+19</sup>, LQY11, LLWL15, LHW<sup>+15a</sup>, LGJ19, LJGRI<sup>+10</sup>, LVADB17, MLH<sup>+15</sup>, MBOC19, MRR<sup>+14</sup>, MKI<sup>+15</sup>, MMWK19, MPBM<sup>+16</sup>, MRN<sup>+19</sup>, MMBS10, MBS<sup>+17</sup>, MSB<sup>+19</sup>, MTK<sup>+10</sup>]. **virus** [MAC<sup>+15</sup>, MFES18, MSI<sup>+15</sup>, MF12, MGN<sup>+16</sup>, MTHB13, MCW<sup>+18</sup>, MNM<sup>+18</sup>, MNM<sup>+19</sup>, MMH10, MCO11, MMW<sup>+15</sup>, MMNL14, NMV<sup>+19</sup>, NNCLGC<sup>+11</sup>, NSC<sup>+18</sup>, NB10, NOST<sup>+16</sup>, OTN<sup>+12</sup>, OKS<sup>+13</sup>, OMO<sup>+15</sup>, OBFR12, OEG<sup>+13</sup>, OCLI<sup>+19</sup>, PTM<sup>+19</sup>, PHvdH12, PWHW18b, PMW<sup>+10</sup>, PMH<sup>+11</sup>, PBM<sup>+15</sup>, PSK<sup>+13</sup>, PJL<sup>+12</sup>, PYSS19,

RNM<sup>+12</sup>, RPGCIG17, RDN<sup>+12</sup>, RMSH09, SJDC<sup>+13</sup>, SPTDEE<sup>+15</sup>, SSV<sup>+10</sup>, SGB<sup>+16</sup>, SHJ<sup>+12</sup>, STG<sup>+10</sup>, SP15, SKN<sup>+16</sup>, SWD<sup>+14</sup>, SZZSFN<sup>+14</sup>, SVM<sup>+18</sup>, SG12, SEM18, SJ11, SSO<sup>+14</sup>, SRD<sup>+16</sup>, TMM<sup>+15</sup>, TIK<sup>+14a</sup>, TSS18, TB12, TSK<sup>+19</sup>, TRS19, TTL<sup>+16</sup>, TCM<sup>+19</sup>, TDT<sup>+16</sup>, VLVS<sup>+16</sup>, VCOD17, VBL<sup>+15</sup>, VBL<sup>+16</sup>, WWS<sup>+11</sup>, WCW16a, WWZ<sup>+18</sup>, WKW<sup>+11</sup>, WCW<sup>+16b</sup>, WNSAL12, WNAF<sup>+13</sup>, XJL<sup>+19</sup>, XWP<sup>+18</sup>, YTKS19, YLSW14, YHY<sup>+16</sup>, YLL<sup>+18</sup>, YCNW18, YWW<sup>+19</sup>, ZLX<sup>+19</sup>, ZLN<sup>+17</sup>, CCCTA<sup>+14</sup>, LLLG18, NFF<sup>+17</sup>, WNGS<sup>+17</sup>, RWTB17, SRM<sup>+18</sup>, SNK<sup>+19</sup>]. **virus-3** [SEM18]. **virus-like** [SWD<sup>+14</sup>]. **viruses** [BSC<sup>+14</sup>, CRAG<sup>+12</sup>, DPADO16, KKT<sup>+18b</sup>, NSC<sup>+15</sup>, PPE<sup>+18</sup>]. **Visceral** [ZZA<sup>+14</sup>, ZWG<sup>+17</sup>]. **viscosa** [BGG11, ESBE18]. **visual** [WSX<sup>+18</sup>]. **visualization** [DXX<sup>+15</sup>, FMM<sup>+19</sup>, KTK17]. **vitellogenic** [CZB<sup>+11</sup>]. **vitreus** [GRP<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>]. **vitro** [AMRHM18, ASS19, DSSB19, NMV<sup>+19</sup>, OMB<sup>+19</sup>, SSG<sup>+19</sup>, SOGR<sup>+19</sup>, TFG19, TKST<sup>+18</sup>, VDO<sup>+18a</sup>, VMBGIC19, YLX<sup>+19b</sup>, AS17, APG<sup>+11</sup>, CRBLC<sup>+17</sup>, CHAB10, DSSB18, KSAB<sup>+14</sup>, MLWC11, MBT<sup>+17</sup>, Mor12, NSE<sup>+17</sup>, PZL<sup>+14</sup>, RBAT<sup>+17</sup>, SHS14, STES14, SBW11, TDH<sup>+10</sup>, VMCM14, XZZ16]. **vivipara** [BCM<sup>+17</sup>]. **viviparous** [AHB<sup>+17</sup>]. **vivo** [AMRHM18, DLLB<sup>+18</sup>, DSSB19, GBO<sup>+18</sup>, LLLG18, LXZ<sup>+19</sup>, SOGR<sup>+19</sup>, YLX<sup>+19b</sup>, BKD17, BLFRCQ10, DSSB18, KAESEM13, LVADB17, MLEM16, PDLW17, PZL<sup>+14</sup>, RBAT<sup>+17</sup>]. **VNTR** [HZP<sup>+12</sup>]. **VNTRs** [DZV10]. **vollucellus** [LRB<sup>+17</sup>]. **vortens** [MLWC11]. **VP2** [CGW<sup>+19</sup>]. **VP26** [SRD<sup>+16</sup>]. **VP28** [MTK<sup>+10</sup>, SRD<sup>+16</sup>, TMM<sup>+15</sup>]. **VP38** [ZWG<sup>+18</sup>]. **VP51B** [LC17]. **VREFT** [GGW<sup>+11</sup>]. **vs** [ZCCN13]. **vs.** [VPS<sup>+14</sup>]. **vulnificus** [FLVA10, QZZ<sup>+18b</sup>, YGL<sup>+18</sup>]. **vulvolacinata** [SDZN19].

**W** [JCN<sup>+14</sup>]. **Wadden** [GVLE16]. **wageneri** [GAC10]. **wageneri-group** [GAC10]. **Waite** [KRD<sup>+17</sup>, LLH<sup>+14b</sup>]. **Walbaum** [ASA10, ASHZ<sup>+12</sup>, AOA13, AHHR<sup>+10</sup>, AJLC<sup>+16</sup>, ABT<sup>+14</sup>, AHTCA<sup>+17</sup>, AA10, AMA11, BSW17, BCLM<sup>+19</sup>, BHA<sup>+11</sup>, BA14, BPPKJ10, BLP10, BLFC12, CSS<sup>+16</sup>, CHAB10, CMH<sup>+17</sup>, CPB<sup>+15</sup>, CMR<sup>+16</sup>, CLS<sup>+15</sup>, DS10, DPTFC10, DPTCF10, DMP10, DJR<sup>+19</sup>, DdRTM13, DdRCP13, DT16, GMC<sup>+16a</sup>, GCNB16, GTH11, GPFGAG19, GDW<sup>+15</sup>, GMC<sup>+16b</sup>, HKBD15a, HKBD15b, JKL<sup>+13</sup>, JDH<sup>+18</sup>, JML19, vGJHS<sup>+11</sup>, KSM<sup>+17</sup>, KPT<sup>+11</sup>, KBE<sup>+14</sup>, LPA<sup>+10</sup>, LLS<sup>+11</sup>, LST<sup>+12</sup>, LF16, LF18, LWMT10, MNF<sup>+15</sup>, NOV<sup>+11</sup>, NDA10, OP14, OBFR12, OBD<sup>+11</sup>, OLT<sup>+10</sup>, PSBG<sup>+11</sup>, PLCC11, PMPG<sup>+16</sup>, RSB13, RCGGM15, RHB<sup>+15</sup>, SMJ<sup>+12</sup>, STF<sup>+15</sup>, SHJ<sup>+12</sup>, SBM<sup>+11</sup>, SCR<sup>+15</sup>, SKJ13, XKB12, YDO<sup>+16</sup>]. **Wales** [TDJ<sup>+10</sup>, TWJP10]. **Walker** [LRB<sup>+17</sup>]. **walking** [BNC<sup>+11</sup>]. **wall** [BB11, WBF<sup>+10</sup>]. **Walleye** [GRP<sup>+15</sup>, VBL<sup>+15</sup>, VBL<sup>+16</sup>, VKK<sup>+19</sup>, WMF14]. **Wanted** [CBM<sup>+18</sup>]. **Ward** [RGMGG<sup>+18</sup>]. **warmer** [GMN12]. **was** [GMC<sup>+16a</sup>]. **Washington** [PPE<sup>+18</sup>]. **waste** [DAB<sup>+12</sup>, PJL<sup>+12</sup>]. **Water** [SFR<sup>+17</sup>, BMK17, CHV<sup>+12</sup>, CD17, CB13, GDW<sup>+15</sup>, GHB<sup>+11</sup>, HH13a, HMW11, JJV<sup>+15</sup>, KSS17, KPM<sup>+11</sup>, MSR<sup>+10</sup>, MUM<sup>+19</sup>, MoSMS18,

MTLP<sup>+</sup>18b, MSK<sup>+</sup>12, NOV<sup>+</sup>11, OM10, PST<sup>+</sup>16, RHTC19b, Sam10, SVY<sup>+</sup>14, VCN<sup>+</sup>10, WNGS<sup>+</sup>17, YkSKY13]. **waterborne** [HKBD15b]. **waters** [BCL<sup>+</sup>19, CNN<sup>+</sup>10, EA18, JZK<sup>+</sup>14, LRAP17, MMBS10, RBS<sup>+</sup>16, RSF<sup>+</sup>17, RGMGG<sup>+</sup>18, RBR19, SBH<sup>+</sup>16, SN14]. **watershed** [PHR14]. **WE-skin11f** [VKK<sup>+</sup>19]. **weakfish** [CCM<sup>+</sup>11]. **Webb** [RAM<sup>+</sup>17]. **websteri** [CBM<sup>+</sup>18]. **wedge** [LPVGL<sup>+</sup>10]. **weedy** [LYD<sup>+</sup>15]. **weight** [FMH<sup>+</sup>15, TJB<sup>+</sup>15]. **weirs** [LST<sup>+</sup>12]. **Weissella** [CLS<sup>+</sup>15, GMC<sup>+</sup>16b, MHNY18]. **weissellosis** [MHNY18]. **well** [KKK<sup>+</sup>18, PSZ<sup>+</sup>14]. **well-being** [PSZ<sup>+</sup>14]. **West** [HHM<sup>+</sup>14, SBH<sup>+</sup>16, PRWG17]. **western** [BHT<sup>+</sup>17, BA13, EEMCEGSP16, PMP<sup>+</sup>18, RPGCIG17, SDJH16, FSV<sup>+</sup>18, FSB<sup>+</sup>18c, RSR<sup>+</sup>18]. **whaler** [RBF14]. **which** [CXW<sup>+</sup>19, QZZ<sup>+</sup>18b]. **while** [JOF<sup>+</sup>19]. **White** [CNN<sup>+</sup>10, CLW<sup>+</sup>13, DCV<sup>+</sup>14, BTN<sup>+</sup>18, BWB<sup>+</sup>17, BMT<sup>+</sup>15, DLCC<sup>+</sup>13, DZV10, DCMM13, DBM<sup>+</sup>14, ESA<sup>+</sup>10, EEMCEGSP16, FSO<sup>+</sup>10, HVVV15, HZP<sup>+</sup>12, HKF<sup>+</sup>16, JQK14, JGI<sup>+</sup>10, JJS<sup>+</sup>12, LQY11, MTK<sup>+</sup>10, MGN<sup>+</sup>16, NRMS14, NSC<sup>+</sup>18, PSK<sup>+</sup>13, RNM<sup>+</sup>12, RPGCIG17, RDN<sup>+</sup>12, RBF14, SMS<sup>+</sup>10, STS<sup>+</sup>15, SPTDEE<sup>+</sup>15, SSV<sup>+</sup>10, SP15, SVM<sup>+</sup>18, SRD<sup>+</sup>16, TMM<sup>+</sup>15, TSK<sup>+</sup>19, TTL<sup>+</sup>16, TDT<sup>+</sup>16, XKB12, YHY<sup>+</sup>16, DCZ<sup>+</sup>17]. **whiteleg** [CMEV17a, CMS<sup>+</sup>17, CMEV17b, KS19, SSV<sup>+</sup>17, STG<sup>+</sup>10, TMM<sup>+</sup>15]. **whitemouth** [MPM16]. **whiting** [RGMGG<sup>+</sup>18]. **Whole** [RPMRLJ<sup>+</sup>19, RKK<sup>+</sup>19, BHF13, KTK17]. **Whole-genome** [RKK<sup>+</sup>19]. **wickerhamii** [JDRM17]. **wide** [KF10a, LHW<sup>+</sup>15a]. **widespread** [PPE<sup>+</sup>18]. **wild** [ARR<sup>+</sup>18, AAUHW15, AGFG19, ADR11, BSC<sup>+</sup>14, BFFA<sup>+</sup>12, BGCKF12, CNN<sup>+</sup>10, EMA17, EA18, FBS13, FBAS16, GFO<sup>+</sup>13, GGMG18b, GMG<sup>+</sup>19, GFB<sup>+</sup>13, HBVB16, HGPD11, HFKF17, JKO<sup>+</sup>13, JHM<sup>+</sup>18, JHRW17, JNN<sup>+</sup>11, KCD<sup>+</sup>14, KMGK<sup>+</sup>18, LHW<sup>+</sup>15a, LDEH17, LFL19, MMWK19, MMB<sup>+</sup>15, MMBS10, MVWS13, MCW<sup>+</sup>18, PTM<sup>+</sup>19, RDN<sup>+</sup>12, RBS<sup>+</sup>16, RSF<sup>+</sup>17, RMSH09, RBWR<sup>+</sup>15, RSM<sup>+</sup>18, SBM<sup>+</sup>11, SDZN19, SWE<sup>+</sup>19, SN14, TJA<sup>+</sup>13, VPS<sup>+</sup>14, VCS<sup>+</sup>19, WDM<sup>+</sup>15, WMM17, ZLX<sup>+</sup>19, dSRSHGá<sup>+</sup>19]. **wild-caught** [HFKF17, RBWR<sup>+</sup>15, RSM<sup>+</sup>18]. **wild-hatched** [SBM<sup>+</sup>11]. **William** [EW17]. **wingei** [ADR11]. **Winter** [MP18, KHG<sup>+</sup>17]. **within** [BMBS12, DZV10, LLC<sup>+</sup>11, YEK<sup>+</sup>17]. **Wootten** [Rob14a]. **world** [GVLE16]. **worldwide** [DBV<sup>+</sup>13, MNG<sup>+</sup>18]. **worm** [BGRB14]. **wound** [ASSP<sup>+</sup>15, SSG<sup>+</sup>19]. **wrasse** [BVK<sup>+</sup>16, BT14, MMW<sup>+</sup>15, RSP<sup>+</sup>17, RSM<sup>+</sup>18, SRM<sup>+</sup>18, Tre12, WDM<sup>+</sup>15]. **WSSV** [DCZ<sup>+</sup>17, DCMM13, HVVV15, JPG<sup>+</sup>19, LC17, PSK<sup>+</sup>13, RDN<sup>+</sup>12, SSV<sup>+</sup>10, WLX<sup>+</sup>10, WXWD15, YHY<sup>+</sup>16]. **wulii** [ZYW<sup>+</sup>10]. **X** [EKT<sup>+</sup>11, MFES18]. **Xanthine** [BSD<sup>+</sup>18d, BSD<sup>+</sup>18c, BSD<sup>+</sup>18a]. **xenobiotica** [CBH<sup>+</sup>15]. **xenomas** [LRAP17]. **XI** [BNS13]. **YaeT** [KREM14]. **yasunagai** [SS17]. **Yasutake** [EW17]. **year** [KZJ<sup>+</sup>17, SBW<sup>+</sup>18, WGL17]. **yearling** [LXL<sup>+</sup>18, SFR<sup>+</sup>17]. **years**

[BMMC<sup>+</sup>15]. **yeast** [SCK13, WBF<sup>+</sup>10]. **yellow** [CWW<sup>+</sup>18, GM11, HZJ<sup>+</sup>19, KHLL16, LYD<sup>+</sup>15, LRD<sup>+</sup>19, NNCLGC<sup>+</sup>11, OEG<sup>+</sup>13, PHvdH12, SGQ<sup>+</sup>15, STG<sup>+</sup>10, XQS<sup>+</sup>15, ZZA<sup>+</sup>14, ZWG<sup>+</sup>17]. **yellowfin** [Dig13, Dig15, Pol15]. **Yellowstone** [MKKM15]. **yellowtail** [KHS11, MFS<sup>+</sup>17, NWMK16, RBAT<sup>+</sup>17, STIG17, YYF<sup>+</sup>10]. **Yersinia** [ASA10, AHTCA<sup>+</sup>17, CMH<sup>+</sup>17, DS10, DSSB18, DSSB19, GTGCM19, GCNB18, GTH11, JKL<sup>+</sup>13, KSM<sup>+</sup>17, KJW<sup>+</sup>12, NCNB18, SON<sup>+</sup>18, TALA11, TDH<sup>+</sup>10, WNCR12]. **Yersiniosis** [GGGM14]. **YHV** [CWW<sup>+</sup>18, LRD<sup>+</sup>19]. **YHV-3** [CWW<sup>+</sup>18]. **YHV-8** [LRD<sup>+</sup>19]. **Yin** [GAC10, MWS17]. **yl** [SRD<sup>+</sup>16]. **York** [GFB<sup>+</sup>19]. **young** [SBW<sup>+</sup>18].

**Zambia** [HHC<sup>+</sup>18]. **Zealand** [BMH<sup>+</sup>19, DWP<sup>+</sup>19, GBO<sup>+</sup>18, RPJ<sup>+</sup>18]. **zebra** [Bin14]. **Zebrafish** [CKvGJB17, SSG<sup>+</sup>19, AMRHM18, BLdA<sup>+</sup>18, BWS<sup>+</sup>18, CDW17, CBW19, CXK16, CSSWK10, KWGS19, KDP<sup>+</sup>17, LRC<sup>+</sup>18, LHW<sup>+</sup>12, LHW<sup>+</sup>15b, MLR<sup>+</sup>12, MWRSK17, MGF17, RAM<sup>+</sup>19, SZM<sup>+</sup>15, SSK17, ZJR<sup>+</sup>18, EDP<sup>+</sup>17]. **Zeuxapta** [STIG17]. **Zeylanicobdella** [KCL14]. **Zhejiang** [LQY11]. **Zinc** [DGS<sup>+</sup>14]. **ZnuABC** [DS10]. **Zoarces** [AHB<sup>+</sup>17]. **zonetail** [BCJ13]. **zonura** [BCJ13]. **Zoogeneticus** [RAM<sup>+</sup>17]. **zoonotic** [FSK<sup>+</sup>19]. **Zschokkella** [YMBE13].

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