A Complete Bibliography of Publications in the *Journal of Theoretical Biology*: 1960–1969

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: `beebe@math.utah.edu`, `beebe@acm.org`, `beebe@computer.org` (Internet)
WWW URL: `https://www.math.utah.edu/~beebe/`

25 June 2024
Version 1.02

Title word cross-reference

References

Akrigg:1969:UDC

[AAB69] A. Akrigg, S. R. Ayad, and J. Blamire. Uptake of DNA by competent bacteria — a possible mechanism. *Journal of Theoretical Biology*, 24(3):266–272, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800512`.

Andrewartha:1961:AIR

[AB61] H. G. Andrewartha and T. O. Browning. An analysis of the idea of "resources" in animal ecology. *Journal of Theoretical Biology*, 1(1): 83–97, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900285.

Angervall:1963:TCU

[AC63] Lennart Angervall and Esbjörn Carlström. Theoretical criteria for the use of relative organ weights and similar ratios in biology. *Journal of Theoretical Biology*, 4(3):254–259, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900043.

Acland:1966:ATC

[Acl66] J. D. Acland. Active transfer and the Curie Principle. *Journal of Theoretical Biology*, 13(??):318–323, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900245.

Acland:1967:PCI

[Acl67] J. D. Acland. Predictive character of irreversible thermodynamics in active transfer. *Journal of Theoretical Biology*, 14(3):323–324, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900847.

Acland:1969:ETA

[Acl69] J. D. Acland. Energy transformation in active transfer. *Journal of Theoretical Biology*, 22(3):535–536, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900204.

Amesz:1961:MMC

[ADB61] J. Amesz, L. N. M. Duysens, and D. C. Brandt. Methods for measuring and correcting the absorption spectrum of scattering suspensions. *Journal of Theoretical Biology*, 1(1):59–74, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900261.

Agin:1963:SCH

[Agi63] D. Agin. Some comments on the Hodgkin–Huxley equations. *Journal of Theoretical Biology*, 5(2):161–170, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900572.

Agin:1964:SCH

[Agi64] D. Agin. Some comments on the Hodgkin–Huxley equations — corrections. *Journal of Theoretical Biology*, 7(2):388, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900827.

Agin:1969:CZL

[Agi69] D. Agin. Comments on Zelman's letter to the editor. *Journal of Theoretical Biology*, 22(3):533–534, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900198.

Aidley:1966:SRC

[Aid66] D. J. Aidley. A suggestion regarding the cellular basis of learning. *Journal of Theoretical Biology*, 11(2):343–345, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901718.

Ainsworth:1968:CSS

[Ain68] S. Ainsworth. A comparative study of some mechanisms describing interaction effects in a dimeric, two-substrate enzyme catalysed reaction. *Journal of Theoretical Biology*, 19(1):1–28, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900027.

Aladjem:1962:TAI

[AKT62] Frederick Aladjem, Henry Klostergaard, and Robert W. Taylor. Theoretical analysis of immunoelectrophoresis. *Journal of Theoretical Biology*, 3(1):134–145, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800101.

Almen:1969:CAD

[Alm69] Torsten Almen. Contrast agent design: Some aspects on the synthesis of water soluble contrast agents of low osmolality. *Journal of Theoretical Biology*, 24(2):216–226, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800470.

Altmann:1965:SRM

[Alt65] Stuart A. Altmann. Sociobiology of rhesus monkeys. II: Stochastics of social communication. *Journal of Theoretical Biology*, 8(3): 490–522, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590024X.

Anonymous:1961:EB

[Ano61a] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 1 (1):ifc, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900212.

Anonymous:1961:PJa

[Ano61b] Anonymous. Pages 1–106 (January 1961). *Journal of Theoretical Biology*, 1(1):??, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1961:PA

[Ano61c] Anonymous. Pages 107–287 (April 1961). *Journal of Theoretical Biology*, 1(2):??, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1961:PJb

[Ano61d] Anonymous. Pages 289–409 (July 1961). *Journal of Theoretical Biology*, 1(3):??, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:EBa

[Ano62a] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 2 (1):i, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800216.

Anonymous:1962:EBb

[Ano62b] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 3(1):i, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800010.

Anonymous:1962:IV

[Ano62c] Anonymous. Index to volume 3. *Journal of Theoretical Biology*, 3(3):v–vii, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800447.

Anonymous:1962:PJb

[Ano62d] Anonymous. Pages 1–147 (July 1962). *Journal of Theoretical Biology*, 3(1):??, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:PJa

[Ano62e] Anonymous. Pages 1–73 (January 1962). *Journal of Theoretical Biology*, 2(1):??, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:PS

[Ano62f] Anonymous. Pages 149–334 (September 1962). *Journal of Theoretical Biology*, 3(2):??, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:PMb

[Ano62g] Anonymous. Pages 193–346 (May 1962). *Journal of Theoretical Biology*, 2(3):??, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:PVV

[Ano62h] Anonymous. Pages 335–514, v-viii (November 1962). *Journal of Theoretical Biology*, 3(3):??, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1962:PMa

[Ano62i] Anonymous. Pages 75–191 (March 1962). *Journal of Theoretical Biology*, 2(2):??, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:A

[Ano63a] Anonymous. Announcement. *Journal of Theoretical Biology*, 4 (2):228, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900328.

Anonymous:1963:BTN

[Ano63b] Anonymous. Biomathematics training at North Carolina state College. *Journal of Theoretical Biology*, 4(1):145, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901073.

Anonymous:1963:CVa

[Ano63c] Anonymous. Contents of volume 4. *Journal of Theoretical Biology*, 4(3):i–iv, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900092.

Anonymous:1963:CVb

[Ano63d] Anonymous. Contents of volume 5. *Journal of Theoretical Biology*, 5(3):III–IV, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936390095X.

Anonymous:1963:EBa

[Ano63e] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 4 (1):ifc, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900961.

Anonymous:1963:EBb

[Ano63f] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 5 (1):ifc, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936390033X.

Anonymous:1963:E

[Ano63g] Anonymous. Erratum. *Journal of Theoretical Biology*, 4(1):146, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901085.

Anonymous:1963:IVa

[Ano63h] Anonymous. Index to volume 4. *Journal of Theoretical Biology*, 4 (3):297–299, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519363900080`.

Anonymous:1963:IVb

[Ano63i] Anonymous. Index to volume 5. *Journal of Theoretical Biology*, 5(3):500–502, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519363900948`.

Anonymous:1963:PJa

[Ano63j] Anonymous. Pages 1–146 (January 1963). *Journal of Theoretical Biology*, 4(1):??, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:PJb

[Ano63k] Anonymous. Pages 1–160 (July 1963). *Journal of Theoretical Biology*, 5(1):??, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:PMa

[Ano63l] Anonymous. Pages 147–228 (March 1963). *Journal of Theoretical Biology*, 4(2):??, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:PS

[Ano63m] Anonymous. Pages 161–339 (September 1963). *Journal of Theoretical Biology*, 5(2):??, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:PMb

[Ano63n] Anonymous. Pages 229–299 (May 1963). *Journal of Theoretical Biology*, 4(3):??, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1963:PN

[Ano63o] Anonymous. Pages 341–502 (November 1963). *Journal of Theoretical Biology*, 5(3):??, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:CV

[Ano64a] Anonymous. Contents of volume. *Journal of Theoretical Biology*, 6(3):iii–iv, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900608.

Anonymous:1964:EBa

[Ano64b] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 6 (1):ifc, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490061X.

Anonymous:1964:EBb

[Ano64c] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 7 (1):ifc, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900372.

Anonymous:1964:Ea

[Ano64d] Anonymous. Errat. *Journal of Theoretical Biology*, 6(2):306, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900360.

Anonymous:1964:Ec

[Ano64e] Anonymous. Errata. *Journal of Theoretical Biology*, 7(2):390–391, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900840.

Anonymous:1964:Ed

[Ano64f] Anonymous. Errata. *Journal of Theoretical Biology*, 7(3):565, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900232.

Anonymous:1964:IVa

[Ano64g] Anonymous. Index to volume 6. *Journal of Theoretical Biology*, 6 (3):471–473, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900591.

Anonymous:1964:IVb

[Ano64h] Anonymous. Index to volume 7. *Journal of Theoretical Biology*, 7(3):567–569, 571–573, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900244.

Anonymous:1964:PJa

[Ano64i] Anonymous. Pages 1–136 (January 1964). *Journal of Theoretical Biology*, 6(1):??, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:PJb

[Ano64j] Anonymous. Pages 1–170 (July 1964). *Journal of Theoretical Biology*, 7(1):??, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:PMa

[Ano64k] Anonymous. Pages 137–309 (March 1964). *Journal of Theoretical Biology*, 6(2):??, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:PS

[Ano64l] Anonymous. Pages 171–391 (September 1964). *Journal of Theoretical Biology*, 7(2):??, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:PMb

[Ano64m] Anonymous. Pages 307–473 (May 1964). *Journal of Theoretical Biology*, 6(3):??, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1964:PN

[Ano64n] Anonymous. Pages 393–573 (November 1964). *Journal of Theoretical Biology*, 7(3):??, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:CVa

[Ano65a] Anonymous. Contents of volume 8. *Journal of Theoretical Biology*, 8(3):III–V, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900263.

Anonymous:1965:CVb

[Ano65b] Anonymous. Contents of volume 9. *Journal of Theoretical Biology*, 9(3):III–V, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900512.

Anonymous:1965:EBa

[Ano65c] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 8 (1):ifc, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900858.

Anonymous:1965:EBb

[Ano65d] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 9 (1):ifc, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900524.

Anonymous:1965:E

[Ano65e] Anonymous. Erratum. *Journal of Theoretical Biology*, 9(3):504, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900482.

Anonymous:1965:IVa

[Ano65f] Anonymous. Index to volume 8. *Journal of Theoretical Biology*, 8 (3):523–527, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900251.

Anonymous:1965:IVb

[Ano65g] Anonymous. Index to volume 9. *Journal of Theoretical Biology*, 9(3):507–510, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900500.

Anonymous:1965:PJb

[Ano65h] Anonymous. Pages 1–123 (July 1965). *Journal of Theoretical Biology*, 9(1):??, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:PJa

[Ano65i] Anonymous. Pages 1–220 (January 1965). *Journal of Theoretical Biology*, 8(1):??, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:PS

[Ano65j] Anonymous. Pages 125–350 (September 1965). *Journal of Theoretical Biology*, 9(2):??, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:PMa

[Ano65k] Anonymous. Pages 221–369 (March 1965). *Journal of Theoretical Biology*, 8(2):??, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:PN

[Ano65l] Anonymous. Pages 351–510 (November 1965). *Journal of Theoretical Biology*, 9(3):??, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:PMb

[Ano65m] Anonymous. Pages 371–527 (May 1965). *Journal of Theoretical Biology*, 8(3):??, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1965:TBC

[Ano65n] Anonymous. Theoretical biology colloquium. *Journal of Theoretical Biology*, 9(3):505, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900494`.

Anonymous:1966:Ab

[Ano66a] Anonymous. Announcement. *Journal of Theoretical Biology*, 10 (3):508, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901408`.

Anonymous:1966:Ac

[Ano66b] Anonymous. Announcement. *Journal of Theoretical Biology*, 11 (3):499, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901111`.

Anonymous:1966:Ad

[Ano66c] Anonymous. Announcement. *Journal of Theoretical Biology*, 12(3): 442, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901573`.

Anonymous:1966:Ae

[Ano66d] Anonymous. Announcement. *Journal of Theoretical Biology*, 13(??):433, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366900312`.

Anonymous:1966:Aa

[Ano66e] Anonymous. Announcements. *Journal of Theoretical Biology*, 10(2):384–385, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901342`.

Anonymous:1966:CSR

[Ano66f] Anonymous. A characteristic of self-regulated linear energy converters the hill force–velocity relation for muscle: S. R. Caplan J. Theoret. Biol. (1966) **11**, 63–86. *Journal of Theoretical Biology*, 12(1):155, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901949`.

Anonymous:1966:CVa

[Ano66g] Anonymous. Contents of volume 10. *Journal of Theoretical Biology*, 10(3):I–IV, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901421`.

Anonymous:1966:CVb

[Ano66h] Anonymous. Contents of volume 12. *Journal of Theoretical Biology*, 12(3):i–v, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901597`.

Anonymous:1966:EBa

[Ano66i] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 10 (1):ifc, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901731.

Anonymous:1966:EBb

[Ano66j] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 11 (1):ifc, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900324.

Anonymous:1966:EBc

[Ano66k] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 12 (1):ifc, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901822.

Anonymous:1966:EBd

[Ano66l] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 13(??):ifc, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900014.

Anonymous:1966:IVa

[Ano66m] Anonymous. Index to volume 10. *Journal of Theoretical Biology*, 10(3):509–512, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690141X.

Anonymous:1966:IVb

[Ano66n] Anonymous. Index to volume 12. *Journal of Theoretical Biology*, 12(3):443–446, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901585.

Anonymous:1966:PS

[Ano66o] Anonymous. Pages 1–155 (September 1966). *Journal of Theoretical Biology*, 12(1):??, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PJa

[Ano66p] Anonymous. Pages 1–158 (January 1966). *Journal of Theoretical Biology*, 10(1):??, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PM

[Ano66q] Anonymous. Pages 1–179 (May 1966). *Journal of Theoretical Biology*, 11(1):??, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PDb

[Ano66r] Anonymous. Pages 1–433 (December 1966). *Journal of Theoretical Biology*, 13(??):1–433, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PN

[Ano66s] Anonymous. Pages 157–290 (November 1966). *Journal of Theoretical Biology*, 12(2):??, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PF

[Ano66t] Anonymous. Pages 159–385 (February 1966). *Journal of Theoretical Biology*, 10(2):??, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PJb

[Ano66u] Anonymous. Pages 181–347 (July 1966). *Journal of Theoretical Biology*, 11(2):??, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PDa

[Ano66v] Anonymous. Pages 291–446 (December 1966). *Journal of Theoretical Biology*, 12(3):??, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PAb

[Ano66w] Anonymous. Pages 349–499 (August 1966). *Journal of Theoretical Biology*, 11(3):??, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1966:PAa

[Ano66x] Anonymous. Pages 387–512 (April 1966). *Journal of Theoretical Biology*, 10(3):??, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:A

[Ano67a] Anonymous. Announcement. *Journal of Theoretical Biology*, 14 (3):329, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900872.

Anonymous:1967:CVa

[Ano67b] Anonymous. Contents of volume 15. *Journal of Theoretical Biology*, 15(3):i–iv, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901452.

Anonymous:1967:CVb

[Ano67c] Anonymous. Contents of volume 16. *Journal of Theoretical Biology*, 16(3):i–v, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900690.

Anonymous:1967:EBa

[Ano67d] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 14 (1):ifc, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900884.

Anonymous:1967:EBb

[Ano67e] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 15 (1):ifc, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900392.

Anonymous:1967:EBc

[Ano67f] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 16 (1):ifc, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900495.

Anonymous:1967:EBd

[Ano67g] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 17 (1):ifc, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900136.

Anonymous:1967:Ea

[Ano67h] Anonymous. Errata. *Journal of Theoretical Biology*, 14(1): 102, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900963.

Anonymous:1967:Ec

[Ano67i] Anonymous. Errata. *Journal of Theoretical Biology*, 14(3): 328, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900860.

Anonymous:1967:IVa

[Ano67j] Anonymous. Index to volume 15. *Journal of Theoretical Biology*, 15 (3):377–380, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901440.

Anonymous:1967:IVb

[Ano67k] Anonymous. Index to volume 16. *Journal of Theoretical Biology*, 16(3):443–447, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900689.

Anonymous:1967:PJa

[Ano67l] Anonymous. Pages 1–102 (January 1967). *Journal of Theoretical Biology*, 14(1):??, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PJc

[Ano67m] Anonymous. Pages 1–150 (July 1967). *Journal of Theoretical Biology*, 16(1):??, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PAa

[Ano67n] Anonymous. Pages 1–177 (April 1967). *Journal of Theoretical Biology*, 15(1):??, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PO

[Ano67o] Anonymous. Pages 1–180 (October 1967). *Journal of Theoretical Biology*, 17(1):??, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PF

[Ano67p] Anonymous. Pages 103–224 (February 1967). *Journal of Theoretical Biology*, 14(2):??, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PAb

[Ano67q] Anonymous. Pages 151–331 (August 1967). *Journal of Theoretical Biology*, 16(2):??, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PMb

[Ano67r] Anonymous. Pages 179–272 (May 1967). *Journal of Theoretical Biology*, 15(2):??, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PN

[Ano67s] Anonymous. Pages 181–318 (November 1967). *Journal of Theoretical Biology*, 17(2):??, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PMa

[Ano67t] Anonymous. Pages 225–329 (March 1967). *Journal of Theoretical Biology*, 14(3):??, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PJb

[Ano67u] Anonymous. Pages 273–380 (June 1967). *Journal of Theoretical Biology*, 15(3):??, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PD

[Ano67v] Anonymous. Pages 319–497 (December 1967). *Journal of Theoretical Biology*, 17(3):??, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1967:PS

[Ano67w] Anonymous. Pages 333–447 (September 1967). *Journal of Theoretical Biology*, 16(3):??, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:EBa

[Ano68a] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 18 (1):ifc, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901653.

Anonymous:1968:EBb

[Ano68b] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 19 (1):ifc, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900015.

Anonymous:1968:EBc

[Ano68c] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 20 (1):ifc, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890088X.

Anonymous:1968:EBd

[Ano68d] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 21 (1):ifc, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900544.

Anonymous:1968:E

[Ano68e] Anonymous. Errata. *Journal of Theoretical Biology*, 20(2): I, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901963.

Anonymous:1968:PJc

[Ano68f] Anonymous. Pages 1–127 (July 1968). *Journal of Theoretical Biology*, 20(1):??, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PO

[Ano68g] Anonymous. Pages 1–131 (October 1968). *Journal of Theoretical Biology*, 21(1):??, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PAa

[Ano68h] Anonymous. Pages 1–132 (April 1968). *Journal of Theoretical Biology*, 19(1):??, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PJa

[Ano68i] Anonymous. Pages 1–156 (January 1968). *Journal of Theoretical Biology*, 18(1):??, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PAb

[Ano68j] Anonymous. Pages 129–270 (August 1968). *Journal of Theoretical Biology*, 20(2):??, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PMb

[Ano68k] Anonymous. Pages 133–240 (May 1968). *Journal of Theoretical Biology*, 19(2):??, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PN

[Ano68l] Anonymous. Pages 133–292 (November 1968). *Journal of Theoretical Biology*, 21(2):??, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PF

[Ano68m] Anonymous. Pages 157–261 (February 1968). *Journal of Theoretical Biology*, 18(2):??, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PJb

[Ano68n] Anonymous. Pages 241–344 (June 1968). *Journal of Theoretical Biology*, 19(3):??, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PMa

[Ano68o] Anonymous. Pages 263–398 (March 1968). *Journal of Theoretical Biology*, 18(3):??, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PS

[Ano68p] Anonymous. Pages 271–358 (September 1968). *Journal of Theoretical Biology*, 20(3):??, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1968:PD

[Ano68q] Anonymous. Pages 293–452 (December 1968). *Journal of Theoretical Biology*, 21(3):??, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:Ab

[Ano69a] Anonymous. Announcement. *Journal of Theoretical Biology*, 25(3): 505, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800391`.

Anonymous:1969:Aa

[Ano69b] Anonymous. Announcements. *Journal of Theoretical Biology*, 22(3):543–545, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/002251936990023X`.

Anonymous:1969:EBa

[Ano69c] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 22 (1):ifc, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519369900745`.

Anonymous:1969:EBb

[Ano69d] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 23 (1):ifc, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519369900629`.

Anonymous:1969:EBc

[Ano69e] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 24(1):i, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800019.

Anonymous:1969:EBd

[Ano69f] Anonymous. Editorial Board. *Journal of Theoretical Biology*, 25 (1):i, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800147.

Anonymous:1969:FTD

[Ano69g] Anonymous. Formal theory of drug dosage regimens. I: E. Krüger–Thiemer, J. Theoret. Biol. (1966). **13**, 212–235. *Journal of Theoretical Biology*, 22(1):I, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900885.

Anonymous:1969:IVa

[Ano69h] Anonymous. Index to volume 24. *Journal of Theoretical Biology*, 24 (1):351–354, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800020.

Anonymous:1969:IVb

[Ano69i] Anonymous. Index to volume 25. *Journal of Theoretical Biology*, 25(1):509–513, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800159.

Anonymous:1969:PAa

[Ano69j] Anonymous. Pages 1–168 (April 1969). *Journal of Theoretical Biology*, 23(1):??, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PJa

[Ano69k] Anonymous. Pages 1–207 (January 1969). *Journal of Theoretical Biology*, 22(1):??, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PAb

[Ano69l] Anonymous. Pages 131–245 (August 1969). *Journal of Theoretical Biology*, 24(2):??, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PMb

[Ano69m] Anonymous. Pages 169–346 (May 1969). *Journal of Theoretical Biology*, 23(2):??, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PN

[Ano69n] Anonymous. Pages 187–342 (November 1969). *Journal of Theoretical Biology*, 25(2):??, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PF

[Ano69o] Anonymous. Pages 209–379 (February 1969). *Journal of Theoretical Biology*, 22(2):??, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PS

[Ano69p] Anonymous. Pages 247–350 (September 1969). *Journal of Theoretical Biology*, 24(3):??, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PD

[Ano69q] Anonymous. Pages 343–505 (December 1969). *Journal of Theoretical Biology*, 25(3):??, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PJb

[Ano69r] Anonymous. Pages 347–495 (June 1969). *Journal of Theoretical Biology*, 23(3):??, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PJc

[Ano69s] Anonymous. Pages 351–354, 1-130 (July 1969). *Journal of Theoretical Biology*, 24(1):??, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PMa

[Ano69t] Anonymous. Pages 381–545 (March 1969). *Journal of Theoretical Biology*, 22(3):??, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Anonymous:1969:PO

[Ano69u] Anonymous. Pages 509–513, 1-185 (October 1969). *Journal of Theoretical Biology*, 25(1):??, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

Aladjem:1965:AAR

[AP65] Frederick Aladjem and Michael T. Palmiter. The antigen-antibody reaction: V. A quantitative theory of antigen-antibody reactions which allows for heterogeneity of antibodies. *Journal of Theoretical Biology*, 8(1):8–21, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900871`.

Arbib:1967:ATD

[Arb67] Michael A. Arbib. Automata theory and development: Part I. *Journal of Theoretical Biology*, 14(2):131–156, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367901105`.

Arnold:1961:WMM

[Arn61] William Arnold. Wave mechanics and muscular contraction. *Journal of Theoretical Biology*, 1(3):404–406, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/002251936190039X`.

Arnold:1968:SST

[Arn68] W. N. Arnold. The selection of sucrose as the translocate of higher plants. *Journal of Theoretical Biology*, 21(1):13–20, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900568`.

Atassi:1966:SAA

[Ata66] M. Z. Atassi. Significance of the amino acid composition of proteins 1. Composition of hemoglobins and myoglobins in relation to their structure, function and evolution. *Journal of Theoretical Biology*, 11(2):227–241, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901639`.

Atlan:1968:AIT

[Atl68] Henri Atlan. Application of information theory to the study of the stimulating effects of ionizing radiation, thermal energy, and other environmental factors preliminary ideas for a theory of organization. *Journal of Theoretical Biology*, 21(1):45–70, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900593.

Apter:1965:CDI

[AW65] M. J. Apter and Lewis Wolpert. Cybernetics and development I. Information theory. *Journal of Theoretical Biology*, 8(2):244–257, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900755.

Bowman:1963:MDH

[BA63] James D. Bowman and Frederick Aladjem. A method for the determination of heterogeneity of antibodies. *Journal of Theoretical Biology*, 4(3):242–253, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900031.

Baer:1964:PMH

[Bae64] Dee Baer. A possible mode of histone synthesis. *Journal of Theoretical Biology*, 6(2):282–289, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900347.

Barr:1962:NGP

[Bar62] H. J. Barr. A new genetical particle: The hypotheson. *Journal of Theoretical Biology*, 3(3):514, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800435.

Barr:1963:PVV

[Bar63] Lloyd Barr. Propagation in vertebrate visceral smooth muscle. *Journal of Theoretical Biology*, 4(1):73–85, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901012.

Barr:1965:MPP

[Bar65] L. Barr. Membrane potential profiles and the Goldman equation. *Journal of Theoretical Biology*, 9(3):351–356, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900366.

Bassham:1963:ECC

[Bas63] J. A. Bassham. Energy capture and conversion by photosynthesis. *Journal of Theoretical Biology*, 4(1):52–72, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901000.

Bellman:1966:CSE

[BBKL66] R. Bellman, J. Buell, R. Kalaba, and J. Lockett. On the computational solution of an equation arising in chemotherapy using numerical inversion of the Laplace transform. *Journal of Theoretical Biology*, 11(2):334–337, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690169X.

Brown:1963:HCM

[BBS63] R. Glenn Brown, Grace M. Button, and John T. Smith. A hypothesis for a common mode of action of the fat soluble vitamins A, D, and E. *Journal of Theoretical Biology*, 5(3):489–492, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900912.

Baker:1964:AGC

[BCB64a] George A. Baker, J. Christy, and G. A. Baker. Analysis of genetic changes in finite populations composed of mixtures of pure lines. *Journal of Theoretical Biology*, 7(1):68–85, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900414.

Baker:1964:SPG

[BCB64b] George A. Baker, J. Christy, and G. A. Baker. Stochastic processes and genotypic frequencies under mixed selfing and random mating. *Journal of Theoretical Biology*, 7(1):86–97, July

1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900426.

Bartley:1969:MMV

[BDF69] W. Bartley, B. Dean, and W. Ferdinand. Maintenance of mitochondrial volume and the effects of phosphate and ATP in producing swelling and shrinking. *Journal of Theoretical Biology*, 24(2):192–202, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800457.

Begbie:1963:ECV

[Beg63] G. H. Begbie. Eye-centering and the vestibulo-ocular reflex in man. *Journal of Theoretical Biology*, 4(2):215–222, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900298.

Bell:1961:SEM

[Bel61] L. G. E. Bell. Surface extension as the mechanism of cellular movement and cell division. *Journal of Theoretical Biology*, 1(1):104–106, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900303.

Bell:1962:PCM

[Bel62] L. G. E. Bell. Polysaccharide and cell membranes. *Journal of Theoretical Biology*, 3(1):132–133, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800095.

Bennett:1963:RMS

[Ben63] J. H. Bennett. Random mating and sex linkage. *Journal of Theoretical Biology*, 4(1):28–36, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900985.

Bergner:1961:TDT

[Ber61a] Per-Erik E. Bergner. Tracer dynamics: I. A tentative approach and definition of fundamental concepts. *Journal of Theoretical Biology*, 1(2):120–140, April 1961. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936190042X.

Bergner:1961:TDI

[Ber61b] Per-Erik E. Bergner. Tracer dynamics: II. The limiting properties of the tracer system. *Journal of Theoretical Biology*, 1(3):359–381, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900376.

Bergner:1962:SICa

[Ber62a] Per-Erik E. Bergner. On the stochastic interpretation of cell survival curves. *Journal of Theoretical Biology*, 2(3):279–295, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900310.

Bergner:1962:SICb

[Ber62b] Per-Erik E. Bergner. On the stochastic interpretation of cell survival curves — errata. *Journal of Theoretical Biology*, 3(3):354, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800319.

Bernstein:1962:MIR

[Ber62c] Harris Bernstein. On the mechanism of intragenic recombination. I. The r II region of bacteriophage T 4. *Journal of Theoretical Biology*, 3(3):335–353, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800307.

Berman:1963:PAM

[Ber63] Mones Berman. A postulate to aid in model building. *Journal of Theoretical Biology*, 4(3):229–236, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900018.

Bergner:1964:TDD

[Ber64a] Per-Erik E. Bergner. Tracer dynamics and the determination of pool-sizes and turnover factors in metabolic systems. *Journal of Theoretical Biology*, 6(2):137–158, March 1964. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900256.

Bernhard:1964:SSB

[Ber64b] R. Bernhard. Survey of some biological aspects of irreversible thermodynamics. *Journal of Theoretical Biology*, 7(3):532–557, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900207.

Bernhard:1964:TCK

[Ber64c] R. Bernhard. Towards a chemical kinetic brain model. *Journal of Theoretical Biology*, 6(2):244–257, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900311.

Bernstein:1964:MIR

[Ber64d] Harris Bernstein. On the mechanism of intragenic recombination II. *Neurospora crassa*. *Journal of Theoretical Biology*, 6(3):347–370, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900529.

Bergner:1965:SNS

[Ber65] Per-Erik E. Bergner. On stationary and non-stationary red cell survival curves. *Journal of Theoretical Biology*, 9(3):366–388, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590038X.

Bigelow:1967:AHP

[Big67] Charles C. Bigelow. On the average hydrophobicity of proteins and the relation between it and protein structure. *Journal of Theoretical Biology*, 16(2):187–211, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900045.

Bellman:1966:IPE

[BKK66] R. Bellman, H. Kagiwada, and R. Kalaba. Inverse problems in ecology. *Journal of Theoretical Biology*, 11(1):164–167, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900464.

Boyd:1969:ESE

[BL69] Donald B. Boyd and William N. Lipscomb. Electronic structures for energy-rich phosphates. *Journal of Theoretical Biology*, 25(3):403–420, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800299.

Black:1966:MEI

[Bla66] Francis L. Black. Measles endemicity in insular populations: Critical community size and its evolutionary implication. *Journal of Theoretical Biology*, 11(2):207–211, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901615.

Blakley:1967:DNS

[Bla67a] G. R. Blakley. Darwinian natural selection acting within populations. *Journal of Theoretical Biology*, 17(2):252–281, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901713.

Blatt:1967:EBP

[Bla67b] John M. Blatt. Enzymatic break-up of polypeptides as a stochastic process. *Journal of Theoretical Biology*, 17(2):282–303, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901725.

Bleecken:1969:DBC

[Ble69] S. Bleecken. Duplication of the bacterial cell and its initiation. *Journal of Theoretical Biology*, 25(1):137–158, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800214.

Baker:1962:NCAb

[BLT62a] B. R. Baker, William W. Lee, and Ethel Tong. Non-classical antimetabolites. VI. 4-(iodoacetamido)-salicylic acid, an exo-alkylating irreversible inhibitor. *Journal of Theoretical Biology*, 3(3):459–483, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936280037X.

Baker:1962:NCAa

[BLT+62b] B. R. Baker, William W. Lee, Ethel Tong, Leonard O. Ross, and Abelardo P. Martinez. Non-classical antimetabolites. V. Further factors in the design of exo-alkylating enzyme inhibitors, particularly of lactic dehydrogenase. *Journal of Theoretical Biology*, 3(3):446–458, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800368.

Blumenthal:1962:CCP

[Blu62] Linda K. Blumenthal. A contribution to the coding problem. *Journal of Theoretical Biology*, 2(1):72–73, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800290.

Blumberg:1968:LGR

[Blu68] A. A. Blumberg. Logistic growth rate functions. *Journal of Theoretical Biology*, 21(1):42–44, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900581.

Bailey:1962:IBH

[BNW62] V. A. Bailey, A. J. Nicholson, and E. J. Williams. Interaction between hosts and parasites when some host individuals are more difficult to find than others. *Journal of Theoretical Biology*, 3 (1):1–18, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800022.

Bennett:1965:ARA

[BO65] J. H. Bennett and Carolyn R. Oertel. The approach to a random association of genotypes with random mating. *Journal of Theoretical Biology*, 9(1):67–76, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900573.

Bock:1967:PTS

[Boc67] R. M. Bock. Prediction of a topaz suppressor ribonucleic acid. *Journal of Theoretical Biology*, 16(3):438–439, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900665.

Bodmer:1963:NSM

[Bod63] Walter F. Bodmer. Natural selection for modifiers of heterozygote fitness. *Journal of Theoretical Biology*, 4(1):86–97, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901024.

Boettcher:1963:SES

[Boe63] B. Boettcher. A suggested explanation of some cases of high negative interference and certain mapping anomalies in phage t4b. *Journal of Theoretical Biology*, 5(1):108–113, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900390.

Bossert:1968:TPO

[Bos68] William H. Bossert. Temporal patterning in olfactory communication. *Journal of Theoretical Biology*, 18(2):157–170, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901586.

Boyden:1962:CDB

[Boy62] Stephen V. Boyden. Cellular discrimination between indigenous and foreign matter. *Journal of Theoretical Biology*, 3(1):123–131, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800083.

Boyd:1966:PII

[Boy66] W. J. R. Boyd. Problems in the interpretation of the inheritance of leaf rust resistance in the common wheat. *Journal of Theoretical Biology*, 13(??):283–294, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900221.

Balassa:1962:ETT

[BP62] Georges Balassa and Georges Prevost. Etude Théorique de la transformation Bactérienne. *Journal of Theoretical Biology*, 3(2):315–334, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800204.

Beck:1964:DPO

[BR64] James S. Beck and Aldo Rescigno. Determination of precursor order and particular weighting functions from kinetic data. *Journal of Theoretical Biology*, 6(1):1–12, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900621.

Bellman:1966:SDA

[BR66] R. Bellman and R. S. Roth. Segmental differential approximation and biological systems: An analysis of a metabolic process. *Journal of Theoretical Biology*, 11(1):168–176, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900476.

Braitenberg:1965:WCL

[Bra65] V. Braitenberg. What can be learned from spike interval histograms about synaptic mechanisms. *Journal of Theoretical Biology*, 8(3):419–425, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900202.

Brannen:1968:CRD

[Bra68] J. P. Brannen. Concerning reversible denaturation of RNA and memory. *Journal of Theoretical Biology*, 20(3):358, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901367.

Bresler:1967:CAT

[Bre67] Emanuel H. Bresler. On criteria for active transport. *Journal of Theoretical Biology*, 16(1):135–146, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900574.

Britton:1966:FPM

[Bri66] H. G. Britton. Fluxes in passive, monovalent and polyvalent carrier systems. *Journal of Theoretical Biology*, 10(1):28–52, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901779.

Bright:1969:CAC

[Bri69] Peter B. Bright. Concerning "anisotropic" contributions of chemical reactions to flow equations and active transport. *Journal of Theoretical Biology*, 23(1):135–157, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900721.

Brlow:1964:INB

[Brl64] John S. Brlow. Inertial navigation as a basis for animal navigation. *Journal of Theoretical Biology*, 6(1):76–117, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900670.

Browning:1962:EAP

[Bro62] T. O. Browning. The environments of animals and plants. *Journal of Theoretical Biology*, 2(1):63–68, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800277.

Brown:1963:CGC

[Bro63] A. P. Brown. Cohesion and growth of cells in a tissue. *Journal of Theoretical Biology*, 5(3):372–388, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900845.

Brody:1964:EES

[Bro64] S. S. Brody. An estimate of the effective sizes of chlorophyll a aggregates in vivo as determined from emission spectra. *Journal of Theoretical Biology*, 7(2):352–359, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900797.

Bronk:1969:RLP

[Bro69] B. V. Bronk. On radioactive labeling of proliferating cells: The graph of labeled mitosis. *Journal of Theoretical Biology*, 22(3):468–492, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900162.

Blizzard:1969:CCE

[BS69] A. C. Blizzard and D. P. Santry. CNDO/2 calculations of the electronic structure of the guanine-cytosine base pair: Proton transfer in excited states. *Journal of Theoretical Biology*, 25(3):461–472, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800330.

Bingley:1962:BPR

[BT62] M. S. Bingley and C. M. Thompson. Bioelectric potentials in relation to movement in amoebae. *Journal of Theoretical Biology*, 2(1):16–32, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800241.

Buerger:1966:MPI

[Bue66] A. A. Buerger. A model for the penetration of integuments by nonelectrolytes. *Journal of Theoretical Biology*, 11(1):131–139, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900439.

Buerger:1967:TIP

[Bue67] A. A. Buerger. A theory of integumental penetration. *Journal of Theoretical Biology*, 14(1):66–73, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790094X.

Burch:1966:SAI

[Bur66] P. R. J. Burch. Spontaneous auto-immunity: Equations for age-specific prevalence and initiation-rates. *Journal of Theoretical Biology*, 12(3):397–409, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901524.

Bossert:1963:AOC

[BW63] William H. Bossert and Edward O. Wilson. The analysis of olfactory communication among animals. *Journal of Theoretical Biology*, 5(3):443–469, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900894.

Boulton:1969:ICM

[BW69] D. M. Boulton and C. S. Wallace. The information content of a multistate distribution. *Journal of Theoretical Biology*, 23(2): 269–278, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900411.

Caianiello:1961:OTT

[Cai61] E. R. Caianiello. Outline of a theory of thought-processes and thinking machines. *Journal of Theoretical Biology*, 1(2):204–235, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900467.

Calvin:1961:QCP

[Cal61] Melvin Calvin. Quantum conversion in photosynthesis. *Journal of Theoretical Biology*, 1(2):258–262, IN1–IN2, 263–287, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900492.

Calogero:1968:SIS

[Cal68] F. Calogero. Solution of infinite systems of differential equations of possible interest in evolutionary theories. *Journal of Theoretical Biology*, 19(1):79–89, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900064.

Campbell:1967:PTN

[Cam67] John Campbell. Permissive translation of nucleic acid: a mechanism for antibody synthesis. *Journal of Theoretical Biology*, 16(2): 321–331, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900124.

Caplan:1966:CSR

[Cap66a] S. R. Caplan. A characteristic of self-regulated linear energy converters the Hill force–velocity relation for muscle. *Journal of Theoretical Biology*, 11(1):63–86, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900403.

Caplan:1966:DCR

[Cap66b] S. R. Caplan. The degree of coupling and its relation to efficiency of energy conversion in multiple-flow systems. *Journal of Theoretical Biology*, 11(2):346–347, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690172X.

Caplani:1966:DCR

[Cap66c] S. R. Caplani. The degree of coupling and its relation to efficiency of energy conversion in multiple-flow systems. *Journal of Theoretical Biology*, 10(2):209–235, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690124X.

Carlson:1964:MCM

[Car64] Elof Axel Carlson. A method for calculating the maximum number of mutational events in *Drosophila melanogaster*. *Journal of Theoretical Biology*, 6(3):432–440, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900578.

Claringbold:1961:ERF

[CB61] P. J. Claringbold and J. S. F. Barker. The estimation of relative fitness of drosophila populations. *Journal of Theoretical Biology*, 1(2):190–203, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900455.

Coe:1965:HRO

[CC65] Elmon L. Coe and Mary H. Coe. A hypothesis relating oil: Water partition coefficients and vapor pressures of nonelectrolytes to their penetration rates through biological membranes. *Journal of Theoretical Biology*, 8(2):327–343, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900810.

Cherry:1969:ODT

[CC69] R. J. Cherry and D. Chapman. Optical determination of the thickness of thin lipid films. *Journal of Theoretical Biology*, 24(2):137–146, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980041X.

Cullinan:1969:TSM

[CD69] H. T. Cullinan and G. B. DiPirro. A transition state model for active transport. *Journal of Theoretical Biology*, 23(1):11–22, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900642.

Cennamo:1968:SSK

[Cen68] C. Cennamo. Steady-state kinetics of one-substrate enzymic mechanisms involving two enzyme conformations I. Effects of modifiers on a mechanism postulating a single enzyme-substrate complex. *Journal of Theoretical Biology*, 21(2):260–277, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890074X.

Cennamo:1969:SSK

[Cen69] C. Cennamo. Steady-state kinetics of one-substrate enzymic mechanisms involving two enzyme conformations: II. Kinetic treatment of a reversible mechanism: Effects of modifiers and product inhibition. *Journal of Theoretical Biology*, 23(1):53–71, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900678.

Chen:1969:HCS

[CF69] R. L. W. Chen and P. Fong. Helical configuration of single-stranded DNA. *Journal of Theoretical Biology*, 22(1):180–187, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900861.

Chun:1968:DEC

[CFY68] P. W. Chun, M. Fried, and K. S. Yee. Determination of the equilibrium constants of associating protein systems I. the application of stepwise polynomial regression analysis. *Journal of Theoretical Biology*, 19(2):147–158, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901100.

Cho:1967:KAIa

[CGTK67a] Chai Moo Cho, Joseph Greco, Peter J. Talso, and Ervin Kaplan. Kinetic analysis of isotope exchange from a cylinder. *Journal of Theoretical Biology*, 16(2):151–158, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790001X.

Cho:1967:KAIb

[CGTK67b] Chai Moo Cho, Joseph Greco, Peter J. Talso, and Ervin Kaplan. Kinetic analysis of isotope exchange from a cylinder containing dissociable non-permeable interacting substance. *Journal of Theoretical Biology*, 16(2):159–165, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900021.

Chaffee:1966:ESS

[Cha66] R. R. J. Chaffee. On experimental selection for super-hibernating and non-hibernating lines of Syrian hamsters. *Journal of Theoretical Biology*, 12(1):151–154, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901937.

Chiaraviglio:1965:SMC

[Chi65] Lucio Chiaraviglio. Sequential machines and the coding of polypeptides. *Journal of Theoretical Biology*, 8(1):130–140, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900998.

Cornew:1967:FCH

[CHS67] Ronald W. Cornew, James C. Houk, and Lawrence Stark. Fine control in the human temperature regulation system. *Journal of Theoretical Biology*, 16(3):406–426, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900641.

Cinatl:1969:IOM

[Cin69] Jaroslav Cinátl. Inorganic-organic multimolecular complexes of salt solutions, culture media and biological fluids and their possible significance for the origin of life. *Journal of Theoretical Biology*, 23(1):1–8, IN1–IN6, 9–10, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900630.

Clayton:1963:AES

[Cla63] Roderick K. Clayton. An automatic energy switch in photosynthesis. *Journal of Theoretical Biology*, 5(3):497–499, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900936.

Claxton:1964:DPS

[Cla64] J. H. Claxton. The determination of patterns with special reference to that of the central primary skin follicles in sheep. *Journal of Theoretical Biology*, 7(2):302–317, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900748.

Clayton:1967:ARB

[Cla67] Roderick K. Clayton. An analysis of the relations between fluorescence and photochemistry during photosynthesis. *Journal of Theoretical Biology*, 14(2):173–186, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901129.

Chalvet:1962:SAQ

[CM62] O. Chalvet and R. Mason. Some aspects of quantum biology: a review. *Journal of Theoretical Biology*, 3(1):51–81, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800046.

Coe:1968:MLS

[Coe68] Fredric L. Coe. Mean life in steady-state populations. *Journal of Theoretical Biology*, 18(2):171–180, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901598.

Cohen:1966:ORR

[Coh66] Dan Cohen. Optimizing reproduction in a randomly varying environment. *Journal of Theoretical Biology*, 12(1):119–129, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901883.

Cohen:1967:ORR

[Coh67] Dan Cohen. Optimizing reproduction in a randomly varying environment when a correlation may exist between the conditions at the time a choice has to be made and the subsequent outcome. *Journal of Theoretical Biology*, 16(1):1–14, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900501.

Cohen:1969:NMI

[Coh69] Dan Cohen. A necessary mechanism for the intracellular degradation of metabolically active macromolecules. *Journal of Theoretical Biology*, 24(1):126–127, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800123.

Cone:1969:STA

[Con69] C. D. Cone. Some theoretical aspects of intercellular bridges as a potential mechanism of cancerous proliferation. *Journal of Theoretical Biology*, 22(2):365–379, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900101.

Coren:1965:UCI

[Cor65] Richard L. Coren. Uterine contraction and intra-amniotic pressure. *Journal of Theoretical Biology*, 9(1):1–15, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900536.

Coulson:1969:RPL

[Cou69] A. S. Coulson. Recognition pathway in lymphocytes. *Journal of Theoretical Biology*, 25(1):127–136, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800202.

Claverie:1966:VWL

[CPC66] Pierre Claverie, Bernard Pullman, and Jacqueline Caillet. Van der Waals–London interactions between stacked purines and pyrimidines. *Journal of Theoretical Biology*, 12(3):419–434, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901548.

Cocordano:1966:RBE

[CRJ66] Maurice Cocordano, Jacques Ricard, and André Julg. Relations between the electronic structure and auxinic activity of chlorinated benzoic acids. *Journal of Theoretical Biology*, 12(3):291–296, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901433.

Crosby:1963:END

[Cro63] J. L. Crosby. The evolution and nature of dominance. *Journal of Theoretical Biology*, 5(1):35–51, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900353.

Crowe:1968:MMM

[Cro68] Alan Crowe. A mechanical model of the mammalian muscle spindle. *Journal of Theoretical Biology*, 21(1):21–41, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890057X.

Case:1965:ASF

[CS65] Carl T. Case and Manuel Schwartz. The application of a system of fixed-rotating vectors to circuit analysis and synthesis. *Journal of Theoretical Biology*, 8(2):221–232, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900731.

Cairns-Smith:1966:OLN

[CS66] A. G. Cairns-Smith. The origin of life and the nature of the primitive gene. *Journal of Theoretical Biology*, 10(1):53–88, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901780.

Coulson:1968:TRS

[CS68] A. S. Coulson and N. V. Smith. The tuberculin receptor site on sensitized human lymphocytes. *Journal of Theoretical Biology*, 20(1):112–116, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900969.

Changeux:1967:MAC

[CT67] J. P. Changeux and J. Thiéry. On the mode of action of colicins: a model of regulation at the membrane level. *Journal of Theoretical Biology*, 17(2):315–318, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901750.

Currey:1968:ABS

[Cur68] J. D. Currey. The adaptation of bones to stress. *Journal of Theoretical Biology*, 20(1):91–106, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900945.

Czerlinski:1964:ACRa

[Cze64a] Georg Czerlinski. Application of chemical relaxation to biochemical systems: I. Isolated reactions. *Journal of Theoretical Biology*, 7(3):435–462, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900165.

Czerlinski:1964:ACRb

[Cze64b] Georg Czerlinski. Application of chemical relaxation to biochemical systems: II. Two-step-reactions. *Journal of Theoretical Biology*, 7(3):463–484, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900177.

Czerlinski:1967:ACR

[Cze67] George Czerlinski. Application of chemical relaxation to biological systems: III. Selected three-step reactions. *Journal of Theoretical Biology*, 17(3):343–382, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900987.

Czerlinski:1968:CRCa

[Cze68a] G. H. Czerlinski. Chemical relaxation of cyclic enzyme reactions: I. General kinetic treatment of three-step mechanisms. *Journal of Theoretical Biology*, 21(3):387–397, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901227.

Czerlinski:1968:CRCb

[Cze68b] G. H. Czerlinski. Chemical relaxation of cyclic enzyme reactions: II. General kinetic treatment of four-step mechanisms. *Journal of Theoretical Biology*, 21(3):398–407, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901239.

Czerlinski:1968:CRCc

[Cze68c] G. H. Czerlinski. Chemical relaxation of cyclic enzyme reactions: III. Experimental implication of previous results. *Journal of Theoretical Biology*, 21(3):408–420, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901240.

DAdamo:1963:SPH

[D'A63] Amedeo F. D'Adamo. Shunt pathways and high energy phosphate synthesis. *Journal of Theoretical Biology*, 4(1):142–144, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901061.

Danielli:1961:P

[Dan61] J. F. Danielli. Preface. *Journal of Theoretical Biology*, 1(1): i, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900224.

Daniel:1964:FCI

[Dan64] Vera Daniel. Field controlled ion trapping as a mechanism in nerve membranes. *Journal of Theoretical Biology*, 6(3):375–385, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900542.

Danielli:1966:TLM

[Dan66] T. F. Danielli. On the thickness of lipid membranes. *Journal of Theoretical Biology*, 12(3):439–441, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

URL http://www.sciencedirect.com/science/article/pii/0022519366901561.

Danielli:1967:Ea

[Dan67a] J. F. Danielli. Editorial. *Journal of Theoretical Biology*, 15 (2):179, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901981.

Danielli:1967:Eb

[Dan67b] J. F. Danielli. Editorial. *Journal of Theoretical Biology*, 15(3): 273, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901361.

Danchin:1969:BMI

[Dan69] A. Danchin. Binding of metal ions to macromolecules through an NMR spectrometric method of investigation. *Journal of Theoretical Biology*, 25(2):317–330, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800664.

Darvey:1968:TPK

[Dar68] I. G. Darvey. Transient phase kinetics of enzyme reactions. *Journal of Theoretical Biology*, 19(2):215–231, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890115X.

Darvey:1969:PFS

[Dar69] I. G. Darvey. Prediction of the form of steady-state rate equations from kinetic data. *Journal of Theoretical Biology*, 25(1):109–112, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800184.

Davies:1965:TQO

[Dav65] J. T. Davies. A theory of the quality of odours. *Journal of Theoretical Biology*, 8(1):1–7, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590086X.

Davidovits:1966:QFS

[Dav66] J. Davidovits. The quaternary and fibrillar structure of native collagen. *Journal of Theoretical Biology*, 12(1):1–6, IN2, 7–11, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901834`.

Dawson:1966:IAD

[Daw66] P. S. Dawson. Insect antennal development and the serrate gene in tribolium castaneum. *Journal of Theoretical Biology*, 12(1):133–139, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901901`.

Dayhoff:1965:CAP

[Day65] M. O. Dayhoff. Computer aids to protein sequence determination. *Journal of Theoretical Biology*, 8(1):97–112, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900962`.

deDuve:1964:PTF

[dD64] Christian de Duve. Principles of tissue fractionation. *Journal of Theoretical Biology*, 6(1):33–40, IN2, 41–59, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900657`.

Drobnik:1966:SME

[DD66] Jaroslav Drobník and Jarmila Dlouhá. Statistical model of evolution of haploid organisms during simple vegetative reproduction. *Journal of Theoretical Biology*, 11(3):418–435, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901020`.

DeRocco:1967:GTH

[De 67] Andrew G. De Rocco. On a generalization of the theorem of hamaker and de Boer: The interaction of spherical colloids in solution. *Journal of Theoretical Biology*, 15(1):34–40, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367900410`.

DeLey:1969:CND

[De 69] J. De Ley. Compositional nucleotide distribution and the theoretical prediction of homology in bacterial DNA. *Journal of Theoretical Biology*, 22(1):89–116, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900824.

DeLong:1967:SB

[DeL67] Richard DeLong. On sexuality in bacteria. *Journal of Theoretical Biology*, 16(3):333–336, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900598.

Despopoulos:1965:DSS

[Des65] Agamemnon Despopoulos. A definition of substrate specificity in renal transport of organic anions. *Journal of Theoretical Biology*, 8(1):163–186, IN1–IN3, 187–192, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901013.

Deutsch:1963:LES

[Deu63] J. A. Deutsch. Learning and electrical self-stimulation of the brain. *Journal of Theoretical Biology*, 4(2):193–214, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900286.

Dewan:1964:NOE

[Dew64] Edmond M. Dewan. Nonlinear oscillations and electroencephalography. *Journal of Theoretical Biology*, 7(1):141–159, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900475.

Lima-de-Faria:1962:SML

[dF62] A. Lima de Faria. Selection at the molecular level. *Journal of Theoretical Biology*, 2(1):7–15, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936280023X.

Dainty:1963:ITF

[DG63] J. Dainty and B. Z. Ginzburg. Irreversible thermodynamics and frictional models of membrane processes, with particular reference to the cell membrane. *Journal of Theoretical Biology*, 5(2):256–265, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900638.

Degn:1969:TOR

[DH69] H. Degn and D. E. F. Harrisson. Theory of oscillations of respiration rate in continuous culture of klebsiella aerogenes. *Journal of Theoretical Biology*, 22(2):238–248, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900034.

Diamondstone:1969:DBB

[Dia69] Thomas I. Diamondstone. On the distinction between binding of substrate and kinetic order of addition in enzyme-catalyzed reactions. *Journal of Theoretical Biology*, 25(3):347–364, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800251.

Dick:1964:PCW

[Dic64] D. A. T. Dick. The permeability coefficient of water in the cell membrane and the diffusion coefficient in the cell interior. *Journal of Theoretical Biology*, 7(3):504–531, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900190.

DiStefano:1969:MNT

[DiS69] J. J. DiStefano. A model of the normal thyroid hormone glandular secretion mechanism. *Journal of Theoretical Biology*, 22(3):412–417, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900137.

Dix:1968:DV

[Dix68] Douglas Dix. A defense of vitalism. *Journal of Theoretical Biology*, 20(3):338–340, September 1968. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901331.

Deering:1966:STC

[DKGK66] R. A. Deering, Alfred A. Kraus, D. M. Gray, and Rein Kilkson. Some theoretical considerations of polarized light effects on unoriented biological systems. *Journal of Theoretical Biology*, 13(??):295–317, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900233.

Day:1969:MSS

[DL69a] C. E. Day and R. S. Levy. Molecular structure of serum lipoproteins. *Journal of Theoretical Biology*, 23(3):387–399, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900277.

Day:1969:GFR

[DL69b] Charles E. Day and Robert S. Levy. A generalized functional role for phospholipids. *Journal of Theoretical Biology*, 22(3):541–542, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900228.

deLuca:1967:FNP

[dLR67] A. de Luca and L. M. Ricciardi. Formalized neuron: Probabilistic description and asymptotic theorems. *Journal of Theoretical Biology*, 14(2):206–217, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901142.

Doetsch:1966:SSA

[Doe66] R. N. Doetsch. Some speculations accounting for the movement of bacterial flagella. *Journal of Theoretical Biology*, 11(3):411–417, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901019.

Doerner:1967:PGC

[Doe67] Karl Doerner. Pressure gradients in cells. *Journal of Theoretical Biology*, 14(3):284–292, March 1967. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900811.

Doerner:1968:SDC

[Doe68] Karl Doerner. Stresses and duration of cellular contact. *Journal of Theoretical Biology*, 19(3):275–286, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901392.

Doerner:1969:PFC

[Doe69] Karl F. Doerner. Propagation of forces in cells. *Journal of Theoretical Biology*, 25(2):226–235, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800615.

Dounce:1962:NHN

[Dou62] A. L. Dounce. A new hypothesis for nucleic acid replication. *Journal of Theoretical Biology*, 2(2):152–158, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900437.

Dilworth:1969:DNF

[DP69] M. J. Dilworth and C. A. Parker. Development of the nitrogen-fixing system in legumes. *Journal of Theoretical Biology*, 25(2):208–218, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800597.

Darvey:1966:DNI

[DPW66a] I. G. Darvey, S. J. Prokhovnik, and J. F. Williams. The determination of the number of intermediates in enzyme catalysed reactions. *Journal of Theoretical Biology*, 13(??):90–99, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900105.

Darvey:1966:UPS

[DPW66b] I. G. Darvey, S. J. Prokhovnik, and J. F. Williams. The use of power series solutions in the kinetics of enzyme reactions with one intermediate. *Journal of Theoretical Biology*, 11(3):459–464, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901056.

Dikstein:1966:BSR

[DS66] S. Dikstein and F. G. Sulman. Biochemistry of stimulus-response-recovery cycle and its relationship to the pharmacological receptor. *Journal of Theoretical Biology*, 12(3):385–396, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901512.

Darvey:1967:ATM

[DS67] I. G. Darvey and P. J. Staff. The application of the theory of Markov processes to the reversible one substrate-one intermediate-one product enzymic mechanism. *Journal of Theoretical Biology*, 14(2):157–172, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901117.

DiStefano:1968:IHH

[DS68] Joseph J. DiStefano and Edwin B. Stear. On identification of hypothalamo-hypophysial control and feedback relationships with the thyroid gland. *Journal of Theoretical Biology*, 19(1):29–50, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900039.

Dalrymple:1968:DCM

[DSB68] G. V. Dalrymple, J. L. Sanders, and M. L. Baker. Do cultured mammalian cells repair radiation injury by the “cut-and-patch” mechanism? *Journal of Theoretical Biology*, 21(3):368–386, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901215.

Duncan:1963:EMC

[Dun63] C. J. Duncan. Excitatory mechanisms in chemo- and mechanoreceptors. *Journal of Theoretical Biology*, 5(1):114–126, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900407.

Duncan:1965:CPC

[Dun65] C. J. Duncan. Cation-permeability control and depolarization in excitable cells. *Journal of Theoretical Biology*, 8(3):403–418, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900196.

Drobnik:1966:NMD

[DV66] J. Drobník and V. Vondrejs. A new model of DNA replication. *Journal of Theoretical Biology*, 12(2):251–259, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901160.

Eberhardt:1969:SAF

[Ebe69] L. L. Eberhardt. Similarity, allometry and food chains. *Journal of Theoretical Biology*, 24(1):43–55, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800056.

Eck:1962:PCN

[Eck62] Richard V. Eck. The protein cryptogram I. Non-random occurrence of amino acid "alleles". *Journal of Theoretical Biology*, 2(2): 139–151, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900425.

Evans:1966:IDM

[EDT66] Robert L. Evans, Raymond L. Duncan, and John V. Tyberg. Indicator dilution measurements of almost-simultaneous regional blood flows in the dog. *Journal of Theoretical Biology*, 10(3): 490–507, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901391.

Everitt:1968:ECL

[EH68] C. T. Everitt and D. A. Haydon. Electrical capacitance of a lipid membrane separating two aqueous phases. *Journal of Theoretical Biology*, 18(3):371–379, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900842.

Everitt:1969:IDL

[EH69] C. T. Everitt and D. A. Haydon. Influence of diffusion layers during osmotic flow across bimolecular lipid membranes. *Journal of Theoretical Biology*, 22(1):9–19, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900769.

Ehret:1967:PTS

[Ehr67] C. F. Ehret. Paratene theory of the shapes of cells. *Journal of Theoretical Biology*, 15(2):263–272, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790207X.

Essig:1966:NFT

[EKH66] A. Essig, O. Kedem, and T. L. Hill. Net flow and tracer flow in lattice and carrier models. *Journal of Theoretical Biology*, 13(??): 72–89, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900099.

Elliott:1968:FBS

[Ell68] G. F. Elliott. Force-balances and stability in hexagonally-packed polyelectrolyte systems. *Journal of Theoretical Biology*, 21(1):71–87, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890060X.

Elsasser:1961:QCO

[Els61] Walter M. Elsasser. Quanta and the concept of organismic law. *Journal of Theoretical Biology*, 1(1):27–58, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936190025X.

Elsasser:1962:PAN

[Els62] Walter M. Elsasser. Physical aspects of non-mechanistic biological theory. *Journal of Theoretical Biology*, 3(2):164–191, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800137.

Elsasser:1963:NEO

[Els63] Walter M. Elsasser. Note on evolution in organismic theory. *Journal of Theoretical Biology*, 4(2):166–174, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519363900250`.

Elsasser:1964:SOT

[Els64] Walter M. Elsasser. Synopsis of organismic theory. *Journal of Theoretical Biology*, 7(1):53–67, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900402`.

Elsasser:1969:MEG

[Els69] Walter M. Elsasser. The mathematical expression of generalized complementarity. *Journal of Theoretical Biology*, 25(2):276–296, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800640`.

Emlen:1966:NSH

[Eml66] J. Merritt Emlen. Natural selection and human behavior. *Journal of Theoretical Biology*, 12(3):410–418, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901536`.

Epstein:1968:NSE

[EMM68] J. Epstein, H. O. Michel, and W. A. Mosher. On the nucleophilicity of serine in enzymes. *Journal of Theoretical Biology*, 19(3):320–326, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368901434`.

Engelberg:1962:ARI

[Eng62] Joseph Engelberg. Analysis of a radiation-induced mutation in *E. coli*. *Journal of Theoretical Biology*, 2(3):312–325, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519362900346`.

Engelberg:1968:DOM

[Eng68] Joseph Engelberg. On deterministic origins of mitotic variability. *Journal of Theoretical Biology*, 20(2):249–259, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890194X.

Enright:1965:SRB

[Enr65] J. T. Enright. The search for rhythmicity in biological time-series. *Journal of Theoretical Biology*, 8(3):426–468, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900214.

Enright:1967:SNS

[Enr67] J. T. Enright. The spontaneous neuron subject to tonic stimulation. *Journal of Theoretical Biology*, 16(1):54–77, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900537.

Erhan:1969:UDM

[Erh69a] Semih Erhan. The unwinding of the DNA molecule during replication. *Journal of Theoretical Biology*, 23(2):339–341, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900447.

Everitt:1969:PBL

[ERH69b] C. T. Everitt, W. R. Redwood, and D. A. Haydon. Problem of boundary layers in the exchange diffusion of water across bimolecular lipid membranes. *Journal of Theoretical Biology*, 22(1):20–32, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900770.

Essig:1966:IIA

[Ess66] A. Essig. Isotope interaction and "abnormal" flux ratios — a frictional model. *Journal of Theoretical Biology*, 13(??):63–71, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900087.

Estabrook:1966:MMG

[Est66] G. F. Estabrook. A mathematical model in graph theory for biological classification. *Journal of Theoretical Biology*, 12(3):297–310, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901445.

Estabrook:1968:GSP

[Est68] G. F. Estabrook. A general solution in partial orders for the Camin–Sokal model in phylogeny. *Journal of Theoretical Biology*, 21(3):421–438, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901252.

Ehret:1967:MMC

[ET67] C. F. Ehret and E. Trucco. Molecular models for the circadian clock: I. The chronon concept. *Journal of Theoretical Biology*, 15(2):240–262, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902068.

Evans:1962:UAB

[Eva62] Robert L. Evans. A unifying approach to blood flow theory. *Journal of Theoretical Biology*, 3(3):392–411, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800332.

Eylar:1966:BRG

[Eyl66] Edwin H. Eylar. On the biological role of glycoproteins. *Journal of Theoretical Biology*, 10(1):89–113, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901792.

Fang:1969:ATR

[Fan69] P. H. Fang. Analysis of tuberculin receptor site on sensitized human lymphocytes. *Journal of Theoretical Biology*, 24(1):128–130, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800135.

Friedenberg:1966:EMSa

[FBG+66a] R. Friedenberg, A. Blatt, V. Gallucci, J. F. Danielli, and I. Shames. Electrostatics of membrane systems — a non-statistical approach to cellular membrane systems. *Journal of Theoretical Biology*, 11(3):465–477, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901068.

Friedenberg:1966:EMSb

[FBG66b] R. Friedenberg, A. I. Blatt, and V. Galluccl. Electrostatics of membrane systems — II Fixed charge and dipole planar surfaces of finite dimensions. *Journal of Theoretical Biology*, 11(3):478–484, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690107X.

Friedenberg:1966:PEF

[FBG66c] R. Friedenberg, A. J. Blatt, and V. Gallucci. The potential energy functions of idealized models of fixed charge and dipole distributions as related to surface chemical phenomena. *Journal of Theoretical Biology*, 11(3):485–489, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901081.

Fraser:1966:SGS

[FBM66] Alex Fraser, Donald Burnell, and David Miller. Simulation of genetic systems X. Inversion polymorphism. *Journal of Theoretical Biology*, 13(??):1–14, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900026.

Filmer:1967:MDR

[FCR67] David L. Filmer, John R. Cannon, and N. Reiss. A method for determination of rate constants in enzyme reactions. *Journal of Theoretical Biology*, 16(2):280–293, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900094.

Feibleman:1967:PG

[Fei67] James K. Feibleman. The philosophy of gestation. *Journal of Theoretical Biology*, 16(3):356–365, September 1967. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900616.

Fellman:1968:CAQ

[Fel68] J. H. Fellman. Comments on the action of quaternary ammonium compounds at the receptor site. *Journal of Theoretical Biology*, 20 (1):124–125, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900982.

Fisher:1962:ASB

[Fis62a] Harvey F. Fisher. The appearance of substrate binding terms in the V_{max} expression of enzyme reactions. *Journal of Theoretical Biology*, 3(3):484–486, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800381.

Fisher:1962:DSD

[Fis62b] R. A. Fisher. The detection of a sex difference in recombination values using double heterozygotes. *Journal of Theoretical Biology*, 3(3):509–513, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800423.

Fisher:1962:ECP

[Fis62c] Ronald A. Fisher. Enumeration and classification in polysomic inheritance. *Journal of Theoretical Biology*, 2(3):309–311, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900334.

Fisher:1962:LES

[Fis62d] Ronald A. Fisher. Letter to the Editor: Self-sterility alleles: a reply to Professor D. Lewis. *Journal of Theoretical Biology*, 3(1): 146–147, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800113.

Fitzgerald:1964:IRL

[Fit64] P. H. Fitzgerald. The immunological role and long life-span of small lymphocytes. *Journal of Theoretical Biology*, 6(1):13–25, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900633.

Finlayson:1969:AEF

[FM69] Birdwell Finlayson and George H. Miller. An analysis of experimental foreign body stone formation. *Journal of Theoretical Biology*, 23 (2):344–346, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900460.

Fong:1967:DBH

[Fon67a] Peter Fong. Dynamical basis of the helical structure of DNA. *Journal of Theoretical Biology*, 15(2):225–229, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902032.

Fong:1967:PDM

[Fon67b] Peter Fong. Packing of the DNA molecule. *Journal of Theoretical Biology*, 15(2):230–235, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902044.

Fong:1968:PTL

[Fon68] P. Fong. Phenomenological theory of life. *Journal of Theoretical Biology*, 21(2):133–152, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900672.

Forsdyke:1969:TI

[For69] D. R. Forsdyke. A theory of immunity. *Journal of Theoretical Biology*, 25(1):173–185, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800238.

Franck:1964:TLU

[FR64] James Franck and J. L. Rosenberg. A theory of light utilization in plant photosynthesis. *Journal of Theoretical Biology*, 7(2):276–301, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900736.

Fraser:1962:SGS

[Fra62] A. S. Fraser. Simulation of genetic systems. *Journal of Theoretical Biology*, 2(3):329–346, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936290036X.

Freese:1962:EBC

[Fre62a] Ernst Freese. On the evolution of the base composition of DNA. *Journal of Theoretical Biology*, 3(1):82–101, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800058.

Frenster:1962:MDM

[Fre62b] J. H. Frenster. The magnitude of disease as measured by tolerance tests. *Journal of Theoretical Biology*, 2(2):159–164, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900449.

Fredericq:1963:NCF

[Fre63] Pierre Fredericq. On the nature of colicinogenic factors: a review. *Journal of Theoretical Biology*, 4(2):159–165, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900249.

Fried:1969:CTE

[Fri69a] Jerrold Fried. Correction for threshold error in the determination of generation times by the grain-count halving method. *Journal of Theoretical Biology*, 24(1):108–120, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800093.

Friedman:1969:ACF

[Fri69b] M. H. Friedman. On an analysis of the constant field equation. *Journal of Theoretical Biology*, 25(3):502–504, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980038X.

Frumento:1965:EEI

[Fru65] Antonio S. Frumento. The electrical effects of an ionic pump. *Journal of Theoretical Biology*, 9(2):253–262, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901116.

Flake:1968:NCT

[FT68] R. H. Flake and B. L. Turner. Numerical classification for taxonomic problems. *Journal of Theoretical Biology*, 20(2):260–270, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901951.

Fujimoto:1963:KMG

[Fuj63] Yoshinori Fujimoto. Kinetics of microbial growth and substrate consumption. *Journal of Theoretical Biology*, 5(2):171–191, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900584.

Friedlander:1965:SAF

[FW65] S. K. Friedlander and Mackenzie Walser. Some aspects of flow and diffusion in the proximal tubule of the kidney. *Journal of Theoretical Biology*, 8(1):87–96, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900950.

Garfinkel:1962:CSS

[Gar62] David Garfinkel. Computer simulation of steady-state glutamate metabolism in rat brain. *Journal of Theoretical Biology*, 3(3):412–422, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800344.

Garfinkel:1967:ESL

[Gar67a] David Garfinkel. Effect on stability of Lotka–Volterra ecological systems of imposing strict territorial limits on populations. *Journal of Theoretical Biology*, 14(3):325–327, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900859.

Garfinkel:1967:SSE

[Gar67b] David Garfinkel. A simulation study of the effect on simple ecological systems of making rate of increase of population density-dependent. *Journal of Theoretical Biology*, 14(1):46–58, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900926.

Garrick:1967:KTM

[Gar67c] Michael D. Garrick. The kinetics of the translation of messenger RNA into protein. *Journal of Theoretical Biology*, 17(1):19–30, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900161.

Gatlin:1963:TFD

[Gat63] L. L. Gatlin. Triplet frequencies in DNA and the genetic program. *Journal of Theoretical Biology*, 5(3):360–371, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900833.

Gatlin:1964:BCH

[Gat64] L. L. Gatlin. Base composition hyperbolic functional relationships in DNA. *Journal of Theoretical Biology*, 7(1):129–140, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900463.

Gatlin:1966:ICD

[Gat66] L. L. Gatlin. The information content of DNA. *Journal of Theoretical Biology*, 10(2):281–300, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901275.

Gatlin:1968:ICD

[Gat68] L. L. Gatlin. The information content of DNA. II. *Journal of Theoretical Biology*, 18(2):181–194, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901604.

Gaunt:1964:ITD

[Gau64] Paul Gaunt. Increment thresholds and dark adaptation. *Journal of Theoretical Biology*, 7(1):160–167, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900487.

Giddings:1962:ESM

[GB62a] J. Calvin Giddings and James R. Boyack. Effect of stabilizing media on zone mobility and spreading in electrophoresis. *Journal of Theoretical Biology*, 2(1):1–6, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800228.

Gosselin:1962:DTS

[GB62b] R. E. Gosselin and W. O. Berndt. Diffusional transport of solutes through mesentery and peritoneum. *Journal of Theoretical Biology*, 3(3):487–495, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800393.

Grainger:1966:MGS

[GB66] J. N. R. Grainger and L. Bass. A model of a growing steady state system. *Journal of Theoretical Biology*, 10(3):387–398, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901354.

Gilbert:1968:TSE

[GC68] M. Gilbert and P. Claverie. A theoretical study of the electrostatic interactions in the intercalation model of the DNA-dye complex. *Journal of Theoretical Biology*, 18(3):330–349, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900829.

Goodwin:1969:PSM

[GC69] Brian C. Goodwin and Morrel H. Cohen. A phase-shift model for the spatial and temporal organization of developing systems. *Journal of Theoretical Biology*, 25(1):49–107, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800172.

Gatlin:1963:FRB

[GD63] L. L. Gatlin and J. C. Davis. A functional relationship between base sequence in DNA and amino acid composition of protein. *Journal of Theoretical Biology*, 5(2):249–255, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900626.

Gunther:1966:UTB

[GdlB66] B. Günther and B. León de la Barra. A unified theory of biological similarities. *Journal of Theoretical Biology*, 13(??):48–59, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900063.

Geduldig:1968:AMP

[Ged68] Donald Geduldig. Analysis of membrane permeability coefficient ratios and internal ion concentrations from a constant field equation. *Journal of Theoretical Biology*, 19(1):67–78, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900052.

Georgiev:1969:SOO

[Geo69] G. P. Georgiev. On the structural organization of operon and the regulation of RNA synthesis in animal cells. *Journal of Theoretical Biology*, 25(3):473–490, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800342.

Goel:1968:SEA

[GFR68] Narendra S. Goel, Nobuo Fukuda, and Robert Rein. A semi-empirical analysis of the melting curves of synthetic DNA molecules and the calculation of the stacking and pairing energies and entropies in DNA. *Journal of Theoretical Biology*, 18(3):350–370, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900830.

Gershfeld:1967:LTP

[GG67] N. L. Gershfeld and R. J. Good. Line tension and the penetration of a cell membrane by an oil drop. *Journal of Theoretical Biology*, 17(2):246, IN6, 247–251, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901701.

Grainger:1968:MGS

[GGW68] J. N. R. Grainger, P. E. Gaffney, and T. T. West. A model of a growing steady-state system with a changing surface-volume ratio. *Journal of Theoretical Biology*, 21(1):123–130, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900659.

Ginzburg:1967:WDS

[GH67] B. Z. Ginzburg and J. Hogg. What does a short-circuit current measure in biological systems? *Journal of Theoretical Biology*, 14(3):316–322, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900835.

Ghent:1966:MCB

[Ghe66] Arthur W. Ghent. A model of crossing-over based on alternately-oriented dipoles. *Journal of Theoretical Biology*, 11(1):87–111, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900415.

Gilvarry:1964:PPL

[Gil64] J. J. Gilvarry. The possibility of a pristine lunar life. *Journal of Theoretical Biology*, 6(3):325–346, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900517.

Gilbert:1968:DOC

[Gil68] D. A. Gilbert. Differentiation, oncogenesis and cellular periodicities. *Journal of Theoretical Biology*, 21(1):113–122, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900647.

Gingell:1967:MSP

[Gin67] D. Gingell. Membrane surface potential in relation to a possible mechanism for intercellular interactions and cellular responses: a physical basis. *Journal of Theoretical Biology*, 17(3):451–482, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901075.

Gingell:1968:CSP

[Gin68] D. Gingell. Computed surface potential changes with membrane interaction. *Journal of Theoretical Biology*, 19(3):340–344, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901471.

Gifford:1969:IDR

[GK69] George E. Gifford and Arthur L. Koch. The interferon dose response curve and its possible significance. *Journal of Theoretical Biology*, 22(2):271–283, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900058.

Gerst:1965:KPS

[GL65] I. Gerst and S. N. Levine. Kinetics of protein synthesis by polyribosomes. *Journal of Theoretical Biology*, 9(1):16–36, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900548.

Gunther:1968:OTT

[GM68] B. Günther and C. Martinoya. Operational time and theory of biological similarities. *Journal of Theoretical Biology*, 20(1):107–111, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900957.

Goel:1969:EIM

[GM69] Narendra S. Goel and Samaresh C. Maitra. On the existence of independently melting subunits in a copolymeric DNA and their statistical distribution. *Journal of Theoretical Biology*, 23(1):87–98, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900691.

Goel:1967:CPG

[Goe67a] Narendra S. Goel. Comments on a paper by Gatlin "On the base composition hyperbolic functional relationship in DNA". *Journal of Theoretical Biology*, 16(3):440–441, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900677.

Goel:1967:KRC

[Goe67b] Narendra S. Goel. Kinetics of replication of copolymeric DNA. *Journal of Theoretical Biology*, 15(3):325–345, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901415.

Goffman:1966:MMD

[Gof66] William Goffman. A mathematical model for describing the compatibility of infectious diseases. *Journal of Theoretical Biology*, 11(3):349–361, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690097X.

Gold:1969:KFD

[Gol69] Harvey J. Gold. Kinetics of facilitated diffusion of oxygen in tissue slices. *Journal of Theoretical Biology*, 23(3):455–462, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900319.

Grabe:1964:RMD

[Gra64] Barbro Grabe. A revised and more detailed hypothesis for the mechanism of oxidative phosphorylation at the diphosphopyridine nucleotide–flavin level. *Journal of Theoretical Biology*, 7(1):112–122, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490044X.

Green:1966:ASC

[Gre66a] William A. Green. Aspects of some co-factor requirements in tumour metabolism. *Journal of Theoretical Biology*, 13(??):412–428, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900294.

Green:1966:LMF

[Gre66b] William A. Green. Is lipid metabolism a fundamental feature in tumour-host relationship? *Journal of Theoretical Biology*, 11(2): 212–226, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901627.

Griffith:1968:MCCa

[Gri68a] J. S. Griffith. Mathematics of cellular control processes I. Negative feedback to one gene. *Journal of Theoretical Biology*, 20(2): 202–208, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901896.

Griffith:1968:MCCb

[Gri68b] J. S. Griffith. Mathematics of cellular control processes II. Positive feedback to one gene. *Journal of Theoretical Biology*, 20(2): 209–216, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901902.

Gross:1967:AMA

[Gro67] Leo Gross. Active membranes for active transport. *Journal of Theoretical Biology*, 15(3):298–306, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901397.

Grossberg:1969:PRC

[Gro69] S. Grossberg. On the production and release of chemical transmitters and related topics in cellular control. *Journal of Theoretical Biology*, 22(2):325–364, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900095.

Haarhoff:1969:UMN

[Haa69] K. N. Haarhoff. Use of multivariate non-linear regression analysis in fitting enzyme kinetic models: An empirical study of the inhibition of aspartate aminotransferase by dicarboxylic acid substrate analogues. *Journal of Theoretical Biology*, 22(1):117–150, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900836.

Hadjiolov:1967:EHM

[Had67] Asen A. Hadjiolov. An endomessenger hypothesis on the mechanism of information transfer in animal cells. *Journal of Theoretical Biology*, 16(2):229–250, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900069.

Hall:1961:PTS

[Hal61] G. G. Hall. Permeation through a spherical membrane. *Journal of Theoretical Biology*, 1(1):18–26, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900248.

Hamilton:1964:GESa

[Ham64a] W. D. Hamilton. The genetical evolution of social behaviour. I. *Journal of Theoretical Biology*, 7(1):1–16, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900384.

Hamilton:1964:GESb

[Ham64b] W. D. Hamilton. The genetical evolution of social behaviour. II. *Journal of Theoretical Biology*, 7(1):17–52, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900396.

Hamilton:1966:MSN

[Ham66] W. D. Hamilton. The moulding of senescence by natural selection. *Journal of Theoretical Biology*, 12(1):12–45, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901846.

Hancock:1967:OUP

[Han67] J. E. H. Hancock. Open unbranched pathways through the vertices of an icosahedron. *Journal of Theoretical Biology*, 14(1):35–45, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900914.

Hansche:1969:TBE

[Han69] P. E. Hansche. A theoretical basis for the entrainment of chemostat populations. *Journal of Theoretical Biology*, 24(3):335–350, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800573.

Hartley:1963:CMD

[Har63] G. S. Hartley. A contribution to the mathematics of dosage transfer. *Journal of Theoretical Biology*, 5(1):57–101, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900377.

Hasofer:1966:CTM

[Has66a] A. M. Hasofer. A continuous-time model in population genetics. *Journal of Theoretical Biology*, 11(1):150–163, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900452.

Hasofer:1966:STS

[Has66b] A. M. Hasofer. A simplified treatment of Spetner's natural selection model. *Journal of Theoretical Biology*, 11(2):338–342, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901706.

Havsteen:1966:SCB

[Hav66] B. H. Havsteen. A study of the correlation between the amino acid composition and the helical content of proteins. *Journal of Theoretical Biology*, 10(1):1–10, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901743.

Houk:1966:MAA

[HCS66] James C. Houk, Ronald W. Cornew, and Lawrence Stark. A model of adaptation in amphibian spindle receptors. *Journal of Theoretical Biology*, 12(2):196–215, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901135.

Hirsch:1965:ACC

[HE65a] Henry R. Hirsch and Joseph Engelberg. An analog of cell-culture growth. *Journal of Theoretical Biology*, 9(2):303–312, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901153.

Hirsch:1965:DCD

[HE65b] Henry R. Hirsch and Joseph Engelberg. Determination of the cell doubling-time distribution from culture growth-rate data. *Journal of Theoretical Biology*, 9(2):297–302, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901141.

Hebborn:1968:SAA

[Heb68] P. Hebborn. On the selective antitumor activity of some alkylating carbamates. *Journal of Theoretical Biology*, 21(3):449–452, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901276.

Hedges:1966:ESH

[Hed66] A. J. Hedges. An examination of single-hit and multi-hit hypotheses in relation to the possible kinetics of colicin adsorption. *Journal of Theoretical Biology*, 11(3):383–410, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901007.

Heddle:1969:IFT

[Hed69] John A. Heddle. Influence of false twins on the ratios of twin and single sister chromatid exchanges. *Journal of Theoretical Biology*, 22(1):151–162, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900848.

Heinmets:1964:ACA

[Hei64] F. Heinmets. Analog computer analysis of a model-system for the induced enzyme synthesis. *Journal of Theoretical Biology*, 6(1):60–75, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900669.

Hellwig:1964:EPW

[Hel64] Gerhard Hellwig. Über ein einfaches prinzip, welches die entropieerzeugung von lebewesen betrifft. *Journal of Theoretical Biology*, 6(2):258–274, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900323`.

Hellwig:1968:CBCa

[Hel68a] Gerhard Hellwig. The connection between the cell environment and the production of molecules whose synthesis requires energy I. The formulation of a general law. *Journal of Theoretical Biology*, 20 (1):1–29, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900891`.

Hellwig:1968:CBCb

[Hel68b] Gerhard Hellwig. The connection between the cell environment and the production of molecules whose synthesis requires energy II. The discussion of the general law. *Journal of Theoretical Biology*, 20 (1):30–55, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900908`.

Henshaw:1968:TDH

[Hen68] Robert E. Henshaw. Thermoregulation during hibernation: Application of Newton's law of cooling. *Journal of Theoretical Biology*, 20(1):79–90, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900933`.

Hersh:1962:MTC

[Her62] R. T. Hersh. Mutants of TMV and the commaless code. *Journal of Theoretical Biology*, 2(3):326–328, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519362900358`.

Herman:1969:CAD

[Her69] G. T. Herman. Computing ability of a developmental model for filamentous organisms. *Journal of Theoretical Biology*, 25(3):421–435, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800305`.

Hanai:1966:PWB

[HH66] T. Hanai and D. A. Haydon. The permeability to water of bimolecular lipid membranes. *Journal of Theoretical Biology*, 11(3):370–382, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900993.

Heyde:1969:SAO

[HH69] C. C. Heyde and Elizabeth Heyde. A stochastic approach to a one substrate, one product enzyme reaction in the initial velocity phase. *Journal of Theoretical Biology*, 25(1):159–172, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800226.

Hanai:1965:ILC

[HHT65a] T. Hanai, D. A. Haydon, and Janet Taylor. The influence of lipid composition and of some adsorbed proteins on the capacitance of black hydrocarbon membranes. *Journal of Theoretical Biology*, 9(3):422–432, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590041X.

Hanai:1965:PGO

[HHT65b] T. Hanai, D. A. Haydon, and Janet Taylor. Polar group orientation and the electrical properties of lecithin bimolecular leaflets. *Journal of Theoretical Biology*, 9(2):278–296, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590113X.

Hanai:1965:VCC

[HHT65c] T. Hanai, D. A. Haydon, and Janet Taylor. The variation of capacitance and conductance of bimolecular lipid membranes with area. *Journal of Theoretical Biology*, 9(3):433–443, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900421.

Higgins:1968:SRS

[Hig68] J. Higgins. Some remarks on Shear's Liapunov function for systems of chemical reactions. *Journal of Theoretical Biology*, 21(3):293–304, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901173.

Hill:1966:SITb

[Hil66] Terrell L. Hill. Studies in irreversible thermodynamics IV. diagrammatic representation of steady state fluxes for unimolecular systems. *Journal of Theoretical Biology*, 10(3):442–459, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901378.

Hill:1966:SITa

[HK66] Terrell L. Hill and Ora Kedem. Studies in irreversible thermodynamics III. Models for steady state and active transport across membranes. *Journal of Theoretical Biology*, 10(3):399–441, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901366.

Hunter:1968:SMM

[HKG68] G. D. Hunter, R. H. Kimberlin, and R. A. Gibbons. Scrapie: a modified membrane hypothesis. *Journal of Theoretical Biology*, 20(3):355–357, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901355.

Hoffmann:1964:SRH

[HL64] T. A. Hoffmann and J. Ladik. Some remarks on the hypochromicity of polynucleotides. *Journal of Theoretical Biology*, 6(1):26–32, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900645.

Hartl:1968:PEN

[HM68] D. L. Hartl and T. Maruyama. Phenogram enumeration: The number of regular genotype-phenotype correspondences in genetic systems. *Journal of Theoretical Biology*, 20(2):129–163, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901860.

Hawkins:1963:TAT

[HOD63] Rosemary Hawkins, L. N. Owen, and J. F. Danielli. The toxicity and anti-tumour action of some alkylating sulphonamides. *Journal of Theoretical Biology*, 5(2):236–248, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900614.

Holden:1966:RFT

[Hol66a] A. L. Holden. Receptive fields and the two-point threshold. *Journal of Theoretical Biology*, 11(1):22–29, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690035X.

Holgate:1966:TLD

[Hol66b] P. Holgate. Two limit distributions in evolutionary genetics. *Journal of Theoretical Biology*, 11(3):362–369, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900981.

Holgate:1967:PSL

[Hol67] P. Holgate. Population survival and life history phenomena. *Journal of Theoretical Biology*, 14(1):1–10, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900896.

Holden:1968:ETS

[Hol68] J. T. Holden. Evolution of transport systems. *Journal of Theoretical Biology*, 21(1):97–102, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900623.

Homer:1967:ROT

[Hom67] Louis D. Homer. The receptor occupation theory of drug responses. *Journal of Theoretical Biology*, 17(3):399–409, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901002.

Horrobin:1969:FSC

[Hor69] D. F. Horrobin. The female sex cycle. *Journal of Theoretical Biology*, 22(1):80–88, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900812.

Hill:1962:C

[HPW62] J. A. Hill, J. M. Pratt, and R. J. P. Williams. The corphyrins. *Journal of Theoretical Biology*, 3(3):423–445, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800356.

Hausmann:1966:ENF

[HR66] Ernest Hausmann and Douglas S. Riggs. The effectiveness of negative feedback in regulating plasma calcium in the dog. *Journal of Theoretical Biology*, 12(3):350–363, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901482.

Hilgartner:1969:PLSa

[HR69a] C. A. Hilgartner and John F. Randolph. Psycho-logics 2. The structure of 'unimpaired' human behavior. *Journal of Theoretical Biology*, 23(3):347–374, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900241.

Hilgartner:1969:PLSb

[HR69b] C. A. Hilgartner and John F. Randolph. Psycho-logics: 3. The structure of empathy. *Journal of Theoretical Biology*, 24(1):1–29, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800032.

Hilgartner:1969:PLA

[HR69c] C. A. Hilgartner and John F. Randolph. Psycho-logics: An axiomatic system describing human behavior. *Journal of Theoretical Biology*, 23(2):285–338, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900435.

Haydon:1963:SPB

[HT63] D. A. Haydon and Janet Taylor. The stability and properties of bimolecular lipid leaflets in aqueous solutions. *Journal of Theoretical Biology*, 4(3):281–296, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900079.

Hughes:1968:CPL

[Hug68] A. Hughes. Comments on the paper by lea "permeation through long narrow pores". *Journal of Theoretical Biology*, 21(1):131, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900660.

Hulett:1969:LPS

[Hul69] H. R. Hulett. Limitations on prebiological synthesis. *Journal of Theoretical Biology*, 24(1):56–72, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800068.

Hagemeijer:1969:LGA

[HvR69] F. Hagemeijer and P. van Remoortere. Limitations of the graphical analysis of elution curves. *Journal of Theoretical Biology*, 25(2):236–254, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800627.

Hogg:1969:MEP

[HWJ69] J. Hogg, E. J. Williams, and R. J. Johnston. The membrane electrical parameters of nitella translucens. *Journal of Theoretical Biology*, 24(3):317–334, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800561.

Idso:1968:ASI

[Ids68] S. B. Idso. Atmospheric- and soil-induced water stresses in plants and their effects on transpiration and photosynthesis. *Journal of Theoretical Biology*, 21(1):1–12, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900556.

Idso:1968:CPZ

[IJ68] Sherwood B. Idso and Ray D. Jackson. Comments on paper by zotin and zotina "thermodynamic aspects of developmental biology". *Journal of Theoretical Biology*, 20(1):126–127, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900994`.

Imamura:1966:SES

[IKTN66] Akira Imamura, Masahiko Kodama, Yusaku Tagashira, and Chikayoshi Nagata. The semi-empirical SCF treatment of σ–π system I. Peptide molecule. *Journal of Theoretical Biology*, 10(2):356–369, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901329`.

Jahn:1962:TEC

[Jah62] Theodore Louis Jahn. A theory of electronic conduction through membranes, and of active transport of ions, based on redox transmembrane potentials. *Journal of Theoretical Biology*, 2(2):129–138, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519362900413`.

Janoff:1964:RIM

[Jan64] Aaron Janoff. The role of iron in macrophages. *Journal of Theoretical Biology*, 7(1):168–170, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900499`.

Jarosch:1964:QTP

[Jar64] R. Jarosch. Zur quantitativen theorie der Proteinschrauben–Ganghöhen von Bakteriengeißeln. (German) [The quantitative theory of protein screws — bacterial flagella pitches]. *Journal of Theoretical Biology*, 7(2):171–180, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900694`.

Johnston:1969:IRE

[JD69] M. M. Johnston and W. F. Diven. An integrated rate equation for determining initial velocities. *Journal of Theoretical Biology*, 25(2):331–338, November 1969. CODEN

JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800676.

Jehle:1967:SAC

[Jeh67] Herbert Jehle. Structural aspects of the coding problem. *Journal of Theoretical Biology*, 15(2):236–238, IN2–IN4, 239, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902056.

Johnson:1969:MMS

[JH69] R. N. Johnson and G. R. Hanna. Membrane model: a single transistor analog of excitable membrane. *Journal of Theoretical Biology*, 22(3):401–411, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900125.

Johansen:1969:CES

[JI69] Helge Johansen and Lloyd L. Ingraham. Calculation of the electronic structures and spectra for corrin and related compounds. *Journal of Theoretical Biology*, 23(2):191–204, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900368.

Jacquez:1966:BSC

[JM66] John A. Jacquez and Frances J. Mather. Balance studies on compartmental systems with stochastic inputs. *Journal of Theoretical Biology*, 11(3):446–458, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901044.

Jennrich:1969:MNC

[JT69] R. I. Jennrich and F. B. Turner. Measurement of non-circular home range. *Journal of Theoretical Biology*, 22(2):227–237, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900022.

Johnson:1967:OVC

[JW67] John A. Johnson and Theodore A. Wilson. Osmotic volume changes induced by a permeable solute. *Journal of Theoreti-*

cal Biology, 17(2):304–311, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901737.

Kallenbach:1968:RDB

[Kal68] Neville R. Kallenbach. Replication of DNA in bacteria with heterogeneous generation times. *Journal of Theoretical Biology*, 18(1):19–33, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901689.

Karlin:1967:APM

[Kar67] Arthur Karlin. On the application of "a plausible model" of allosteric proteins to the receptor for acetylcholine. *Journal of Theoretical Biology*, 16(2):306–320, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900112.

Katsumata:1967:RIM

[Kat67] Masuyuki Katsumata. Rearrangement of the Ingraham–Makower equation for a two-substrate enzyme reaction for practical application. *Journal of Theoretical Biology*, 17(1):108–120, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900239.

Katsumata:1969:IEA

[Kat69] Masuyuki Katsumata. Influence of enzyme activators and inhibitors, present in an enzyme preparation, on the relations between reaction rate and enzyme concentration. *Journal of Theoretical Biology*, 24(3):294–306, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800548.

Kauffman:1967:SDR

[Kau67] Stuart A. Kauffman. Sequential DNA replication and the control of differences in gene activity between sister chromatids — a possible factor in cell differentiation. *Journal of Theoretical Biology*, 17(3):483–497, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901087.

Kauffman:1969:MSE

[Kau69] S. A. Kauffman. Metabolic stability and epigenesis in randomly constructed genetic nets. *Journal of Theoretical Biology*, 22(3): 437–467, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900150.

Kavanau:1963:NTA

[Kav63] J. Lee Kavanau. A new theory of amoeboid locomotion. *Journal of Theoretical Biology*, 4(1):124–141, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936390105X.

Koch:1969:POS

[KCE69] A. L. Koch, A. Carr, and D. W. Ehrenfeld. The problem of open-sea navigation: The migration of the green turtle to ascension Island. *Journal of Theoretical Biology*, 22(1):163–179, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990085X.

Kelman:1965:MAS

[Kel65] R. B. Kelman. Mathematical analysis of sodium reabsorption in proximal part of nephron in presence of nonreabsorbed solute. *Journal of Theoretical Biology*, 8(1):22–26, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900883.

Keleti:1967:L

[Kel67] T. Keleti. The liberator. *Journal of Theoretical Biology*, 16(3):337–355, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900604.

Kiefer:1968:MFC

[Kie68] Jürgen Kiefer. A model of feedback-controlled cell populations. *Journal of Theoretical Biology*, 18(3):263–279, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900787.

Kilkson:1966:ASV

[Kil66a] Rein Kilkson. Antigenic specificity of virus structural components. *Journal of Theoretical Biology*, 12(3):435–438, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690155X.

Kilkson:1966:SEC

[Kil66b] Rein Kilkson. The structure and evolution of chromosomes. *Journal of Theoretical Biology*, 13(??):357–378, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900270.

Kimizuka:1966:ICP

[Kim66] Hideo Kimizuka. Ion current and potential across membranes. *Journal of Theoretical Biology*, 13(??):145–163, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900142.

King:1964:PNM

[Kin64] M. H. King. A possible new method for producing specific antisera. *Journal of Theoretical Biology*, 7(3):562–564, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900220.

Kimizuka:1964:ITT

[KK64] H. Kimizuka and K. Koketsu. Ion transport through cell membrane. *Journal of Theoretical Biology*, 6(2):290–305, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900359.

Klachko:1966:RIM

[Kla66] David M. Klachko. Regulation of intermediary metabolism by nucleotides: The mechanism of action of insulin. *Journal of Theoretical Biology*, 12(2):267–275, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901184.

Klima:1966:IBN

[Kli66] Jörg Klima. Informationsfluß beim nachbau von kettenmolekülen. (German) [Information flow in the reconstruction of chain molecules]. *Journal of Theoretical Biology*, 12(3):342–349, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901470.

Koch:1965:MKM

[KM65] Arthur L. Koch and Constance Miller. A mechanism for keeping mutations in check. *Journal of Theoretical Biology*, 8(1):71–80, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900937.

Kimelberg:1965:MIH

[KMT65] H. Kimelberg, J. F. Moran, and D. J. Triggle. The mechanism of interaction of 2-halogenoethylamines at the noradrenaline recentor. *Journal of Theoretical Biology*, 9(3):502–503, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900470.

Knowles:1965:ESC

[Kno65] J. R. Knowles. Enzyme specificity: α-chymotrypsin. *Journal of Theoretical Biology*, 9(2):213–228, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901086.

Knox:1968:TTE

[Kno68] R. S. Knox. On the theory of trapping of excitation in the photosynthetic unit. *Journal of Theoretical Biology*, 21(2):244–259, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900738.

Koch:1962:ERB

[Koc62] Arthur L. Koch. The evaluation of the rates of biological processes from tracer kinetic data. I. The influence of labile metabolic pools. *Journal of Theoretical Biology*, 3(2):283–303, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800186.

Koch:1964:GVP

[Koc64] Arthur L. Koch. The growth of viral plaques during the enlargement phase. *Journal of Theoretical Biology*, 6(3):413–431, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900566.

Koch:1966:LBM

[Koc66] Arthur L. Koch. The logarithm in biology 1. Mechanisms generating the log-normal distribution exactly. *Journal of Theoretical Biology*, 12(2):276–290, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901196.

Koch:1967:KPC

[Koc67a] Arthur L. Koch. Kinetics of permease catalyzed transport. *Journal of Theoretical Biology*, 14(2):103–130, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901099.

Koch:1967:MCT

[Koc67b] Arthur L. Koch. Metabolic control through reflexive enzyme action. *Journal of Theoretical Biology*, 15(1):75–102, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900458.

Koch:1967:TBN

[Koc67c] Arthur L. Koch. The tight binding nature of the repressor-operon interaction. *Journal of Theoretical Biology*, 16(2):166–186, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900033.

Koch:1968:ERB

[Koc68a] Arthur L. Koch. The evaluation of the rates of biological processes from tracer kinetic data: II. RNA metabolism in growing bacteria. *Journal of Theoretical Biology*, 18(1):105–132, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901732.

Koch:1968:TAD

[Koc68b] Arthur L. Koch. Theory of the angular dependence of light scattered by bacteria and similar-sized biological objects. *Journal of Theoretical Biology*, 18(1):133–156, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901744.

Koch:1969:LBI

[Koc69] A. L. Koch. The logarithm in biology: II. Distributions simulating the log-normal. *Journal of Theoretical Biology*, 23(2):251–268, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990040X.

Koide:1966:DIB

[Koi66] F. T. Koide. The determination of the intercellular bridge resistance between smooth muscle cells. *Journal of Theoretical Biology*, 12(1):89–118, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901871.

Koide:1967:DIB

[Koi67] Frank T. Koide. Determination of intercellular bridge resistance in smooth muscle by measurement of injury and sucrose-gap potentials. *Journal of Theoretical Biology*, 16(2):268–279, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900082.

Komarov:1963:SPA

[Kom63] L. V. Komarov. Some potential areas for research on means of drastically increasing the human life span. *Journal of Theoretical Biology*, 4(2):147–158, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900237.

Kordan:1967:LIF

[Kor67] Herbert A. Kordan. Localized interfacial forces resulting from implanted plastics as possible physical factors involved in tumor formation. *Journal of Theoretical Biology*, 17(1):1–11, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900148.

Korn:1969:SAD

[Kor69] Robert W. Korn. A stochastic approach to the development of coleocheate. *Journal of Theoretical Biology*, 24(2):147–158, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800421.

Koshland:1962:CNE

[Kos62] D. E. Koshland. The comparison of non-enzymic and enzymic reaction velocities. *Journal of Theoretical Biology*, 2(2):75–86, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900371.

King:1967:DMS

[KP67] Charles E. King and G. J. Paulik. Dynamic models and the simulation of ecological systems. *Journal of Theoretical Biology*, 16(2): 251–267, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900070.

Krzywicki:1967:FAP

[KS67] André Krzywicki and Piotr P. Slonimski. Formal analysis of protein sequences: I. Specific long-range constraints in pair associations of amino acids. *Journal of Theoretical Biology*, 17(1):136–158, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900252.

Kruckenberg:1968:AMA

[KS68a] Peter Kruckenberg and Rainer Sandweg. An analog model for acetylcholine release by motor nerve endings. *Journal of Theoretical Biology*, 19(3):327–332, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901446.

Krzywicki:1968:FAP

[KS68b] A. Krzywicki and P. P. Slonimski. Formal analysis of protein sequences: II. Method for structural studies of homologous proteins amino acid substitutions in cytochromes c. *Journal of Theoretical Biology*, 21(3):305–330, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901185.

Kirschbaum:1969:MMP

[KS69] Thomas H. Kirschbaum and Norman Z. Shapiro. A mathematical model of placental oxygen transfer. *Journal of Theoretical Biology*, 25(3):380–402, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800287.

Kustin:1965:TRS

[KSK65] Kenneth Kustin, David Shear, and Daniel Kleitman. Theory of relaxation spectra; the kinetics of coupled chemical reactions. *Journal of Theoretical Biology*, 9(2):186–212, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901074.

Kimelberg:1965:RHN

[KT65] H. Kimelberg and D. J. Triggle. The reactions of 2-halogenoethylamines at the noradrenaline receptor-storage complex. *Journal of Theoretical Biology*, 9(2):313–322, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901165.

Kruger-Thiemer:1966:FTD

[KT66] Ekkehard Krüger-Thiemer. Formal theory of drug dosage regimens. I. *Journal of Theoretical Biology*, 13(??):212–235, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690018X.

Kruger-Thiemer:1969:FTD

[KT69] E. Krüger-Thiemer. Formal theory of drug dosage regimens: II. The exact plateau effect. *Journal of Theoretical Biology*, 23(2):169–190, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900356.

Ladik:1964:PIM

[Lad64] J. Ladik. Possible interpretation of the mutagenic effect of ultraviolet radiation. *Journal of Theoretical Biology*, 6(2):201–207, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900281.

Lanni:1963:ASP

[Lan63] Frank Lanni. Analysis of sequence patterns in ribonuclease. III. Variable-span pair-order analysis. *Journal of Theoretical Biology*, 4 (1):1–27, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900973.

Lauria:1965:MAS

[Lau65] Francesco E. Lauria. Mathematical approach to the study of a cerebral cortex: I. Histological methods of calculating the coupling coefficients in the neuronic equations. *Journal of Theoretical Biology*, 8(1):54–70, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900925.

Lauria:1969:MASa

[Lau69a] F. E. Lauria. Mathematical approach to the study of a cerebral cortex: II. The self-consistency of the model and the coupling coefficients of the neuronic equations. *Journal of Theoretical Biology*, 23 (1):72–86, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990068X.

Lauria:1969:MASb

[Lau69b] F. E. Lauria. Mathematical approach to the study of a cerebral cortex: III. The columnar organization in the cortex and the spread of activity in the model. *Journal of Theoretical Biology*, 24(3):307–316, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980055X.

Lea:1963:PTL

[Lea63] E. J. A. Lea. Permeation through long narrow pores. *Journal of Theoretical Biology*, 5(1):102–107, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900389.

Lea:1965:PTL

[Lea65] E. J. A. Lea. Permeation through long narrow pores — corrections. *Journal of Theoretical Biology*, 9(2):350, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901190.

Leibovic:1966:MIP

[Lei66] K. N. Leibovic. A model for information processing with reference to vision. *Journal of Theoretical Biology*, 11(1):112–130, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900427.

Leibowitz:1968:FF

[Lei68] Lila Leibowitz. Founding families. *Journal of Theoretical Biology*, 21(2):153–169, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900684.

Leibovic:1969:SPI

[Lei69a] K. N. Leibovic. Some problems of information processing and models of the visual pathway. *Journal of Theoretical Biology*, 22(1): 62–79, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900800.

Leibowitz:1969:DSE

[Lei69b] Lila Leibowitz. Dilemma for social evolution: The impact of Darwin. *Journal of Theoretical Biology*, 25(2):255–275, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800639.

Lengerova:1962:SII

[Len62] A. Lengerová. The significance of immunological immaturity for the induction of tolerance. *Journal of Theoretical Biol-*

ogy, 3(3):503–508, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800411.

Lesk:1969:WDD

[Les69] Arthur M. Lesk. Why does DNA contain thymine and RNA uracil? *Journal of Theoretical Biology*, 22(3):537–540, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900216.

Levitt:1962:SDH

[Lev62] J. Levitt. A sulfhydryl-disulfide hypothesis of frost injury and resistance in plants. *Journal of Theoretical Biology*, 3(3):355–391, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800320.

Levins:1964:TFH

[Lev64] Richard Levins. Theory of fitness in a heterogeneous environment: Part III. The response to selection. *Journal of Theoretical Biology*, 7(2):224–240, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900712.

Levine:1966:MRE

[Lev66] Sumner N. Levine. A model for renal-electrolyte regulation. *Journal of Theoretical Biology*, 11(2):242–256, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901640.

Lewontin:1961:ETG

[Lew61] R. C. Lewontin. Evolution and the theory of games. *Journal of Theoretical Biology*, 1(3):382–403, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900388.

Lewis:1962:GSI

[Lew62] D. Lewis. The generation of self-incompatibility alleles. *Journal of Theoretical Biology*, 2(1):69–71, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

URL http://www.sciencedirect.com/science/article/pii/S0022519362800289.

Lewis:1966:NPD

[Lew66] E. R. Lewis. Neuroelectric potentials derived from an extended version of the Hodgkin–Huxley model. *Journal of Theoretical Biology*, 10(1):125–152, IN1–IN3, 153–158, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901810.

Lewin:1967:SAH

[Lew67] S. Lewin. Some aspects of hydration and stability of the native state of DNA. *Journal of Theoretical Biology*, 17(2):181–188, IN1–IN3, 189–212, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790166X.

Lewin:1969:ILP

[Lew69] S. Lewin. Ionic linkages in protein interactions. *Journal of Theoretical Biology*, 23(2):279–280, IN1–IN2, 281–284, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900423.

Levy:1968:SMB

[LG68] P. S. Levy and G. M. Green. A stochastic model of the bactericidal activity of the lung. *Journal of Theoretical Biology*, 21(1):103–112, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900635.

Lindegren:1961:BFD

[Lin61] Carl C. Lindegren. The biological function of deoxyribonucleic acid. *Journal of Theoretical Biology*, 1(2):107–119, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900418.

Lindegren:1963:RHI

[Lin63] Carl C. Lindegren. The receptor-hypothesis of induction of gene-controlled adaptive enzymes. *Journal of Theoretical Biology*, 5(2):192–210, September 1963. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900596.

Lindley:1967:MSB

[Lin67] Barry D. Lindley. Membrane solvation as a basis for ionic selectivity. *Journal of Theoretical Biology*, 17(2):213–228, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901671.

Lindenmayer:1968:MMCa

[Lin68a] Aristid Lindenmayer. Mathematical models for cellular interactions in development I. Filaments with one-sided inputs. *Journal of Theoretical Biology*, 18(3):280–299, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900799.

Lindenmayer:1968:MMCb

[Lin68b] Aristid Lindenmayer. Mathematical models for cellular interactions in development II. Simple and branching filaments with two-sided inputs. *Journal of Theoretical Biology*, 18(3):300–315, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900805.

Lindley:1968:MST

[Lin68c] B. D. Lindley. Membrane systems as transition assemblies — a basis for phenomenological descriptions. *Journal of Theoretical Biology*, 20(1):56–64, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890091X.

Lwoff:1962:ECM

[LL62] André Lwoff and Marguerite Lwoff. Événements cycliques et Molécules Métastables. *Journal of Theoretical Biology*, 2(1):48–62, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800265.

Levine:1969:KIU

[LL69] M. Levine and S. Levine. Kinetics of induced uphill transport of sugars in human erythrocytes. *Journal of Theoretical Biology*, 24

(1):85–107, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800081.

Longmuir:1965:TAO

[LM65] I. S. Longmuir and M. McCabe. Tissue adaptation to oxygen lack. *Journal of Theoretical Biology*, 8(1):124–129, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900986.

Lifson:1966:TUT

[LM66] N. Lifson and Ruth McClintock. Theory of use of the turnover rates of body water for measuring energy and material balance. *Journal of Theoretical Biology*, 12(1):46–74, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901858.

Latimer:1968:CTL

[LMB68] Paul Latimer, Douglas M. Moore, and F. Dudley Bryant. Changes in total light scattering and absorption caused by changes in particle conformation. *Journal of Theoretical Biology*, 21(3):348–367, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901203.

Lockhart:1965:AIP

[Loc65] James A. Lockhart. An analysis of irreversible plant cell elongation. *Journal of Theoretical Biology*, 8(2):264–275, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900779.

Loewy:1968:TCB

[Loe68] Ariel G. Loewy. A theory of covalent bonding in muscle contraction. *Journal of Theoretical Biology*, 20(2):164–172, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901872.

Lovtrup:1963:RWE

[Løv63] Søren Løvtrup. On the rate of water exchange across the surface of animal cells. *Journal of Theoretical Biology*, 5(3):341–359, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900821.

Lovrien:1969:ADE

[Lov69] Rex Lovrien. Activation diagrams in enzyme catalysis. *Journal of Theoretical Biology*, 24(3):247–265, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800500.

Lowenstein:1961:ROM

[Low61] John M. Lowenstein. Reductions and oxidations in mammalian biosyntheses. *Journal of Theoretical Biology*, 1(1):98–103, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900297.

Lowenhaupt:1969:BTM

[Low69] B. Lowenhaupt. Bioelectrochemical throttle of metabolism. *Journal of Theoretical Biology*, 25(2):187–202, IN1–IN2, 203–207, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800585.

Levey:1966:NTU

[LP66] H. C. Levey and C. J. Perret. A note on the theory of uncatalysed linear expanding systems. *Journal of Theoretical Biology*, 13(??):15–17, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900038.

Lebowitz:1969:GCD

[LR69] J. L. Lebowitz and S. I. Rubinow. Grain count distributions in labeled cell populations. *Journal of Theoretical Biology*, 23(1):99–123, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900708.

Lucy:1964:GLM

[Luc64] J. A. Lucy. Globular lipid micelles and cell membranes. *Journal of Theoretical Biology*, 7(2):360–373, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900803.

Lurie:1969:DST

[Lur69] M. Lurie. The Darwinian selection theory of antibody formation. *Journal of Theoretical Biology*, 23(3):380–386, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900265.

MacGillivray:1969:ASP

[Mac69] A. D. MacGillivray. Asymptotic solution of the Poisson–Boltzmann equation for a charged sphere, and implications. *Journal of Theoretical Biology*, 23(2):205–217, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990037X.

Maddaiah:1969:MHS

[Mad69] V. T. Maddaiah. A model for hormone specific activation of adenyl cyclase. *Journal of Theoretical Biology*, 25(3):495–498, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800366.

Maelzer:1965:DCE

[Mae65a] D. A. Maelzer. A discussion of components of environment in ecology. *Journal of Theoretical Biology*, 8(1):141–162, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901001.

Maelzer:1965:ESS

[Mae65b] D. A. Maelzer. Environment, semantics, and system theory in ecology. *Journal of Theoretical Biology*, 8(3):395–402, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900184.

Magar:1969:AAS

[Mag69a] M. E. Magar. Analysis of aggregating systems. *Journal of Theoretical Biology*, 22(2):291–313, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900071.

Magar:1969:DRC

[Mag69b] Magar E. Magar. On the determination of rate constants and the number of intermediates in enzyme-catalyzed reactions. *Journal of Theoretical Biology*, 25(3):343–346, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980024X.

Maldonado:1963:VAL

[Mal63] H. Maldonado. The visual attack learning system in *Octopus vulgaris*. *Journal of Theoretical Biology*, 5(3):470–488, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900900.

Malmon:1965:HRI

[Mal65] A. G. Malmon. High resolution isotope tracing in electron microscopy using induced nuclear reactions. *Journal of Theoretical Biology*, 9(1):77–92, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900585.

Maniloff:1969:CLR

[Man69a] Jack Maniloff. Collision lifetimes and recognition times for macromolecule synthesis. *Journal of Theoretical Biology*, 25(2):339–342, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800688.

Maniloff:1969:TCB

[Man69b] Jack Maniloff. Theoretical considerations of biopolymer synthesis. *Journal of Theoretical Biology*, 23(3):441–454, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900307.

Marler:1961:LAA

[Mar61] Peter Marler. The logical analysis of animal communication. *Journal of Theoretical Biology*, 1(3):295–317, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900327.

Martin:1963:BPR

[Mar63] H. H. Martin. Bacterial protoplasts — a review. *Journal of Theoretical Biology*, 5(1):1–16, IN1–IN4, 17–34, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900341.

Marshall:1964:TAE

[Mar64] John H. Marshall. Theory of alkaline earth metabolism: The power function makes possible a simple but comprehensive model of skeletal systems. *Journal of Theoretical Biology*, 6(3):386–412, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900554.

Marshak:1967:HOT

[Mar67] A. Marshak. The harmonic oscillator theory applied to the code translation problem. *Journal of Theoretical Biology*, 17(1):12–18, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790015X.

Matsumoto:1968:NSR

[Mat68] Yorimi Matsumoto. Normalization of shortening in rana pipiens sartorius muscle. *Journal of Theoretical Biology*, 18(3):387–395, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900866.

McMullen:1963:PDH

[McM63] A. I. McMullen. The polynucleotide double helix as a versatile assembly template during polymer biogenesis. *Journal of Theoretical Biology*, 5(1):127–134, IN5, 135–136, IN7–IN10, 137–141, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900419.

Mel:1964:SFFa

[Mel64a] Howard C. Mel. Stable-flow free boundary migration and fractionation of cell mixtures: I. Apparatus and hydrodynamic feedback principles. *Journal of Theoretical Biology*, 6(2):159–166, IN1, 167–180, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900268.

Mel:1964:SFFb

[Mel64b] Howard C. Mel. Stable-flow free boundary migration and fractionation of cell mixtures: II. Laminar flow and density gradient stability. *Journal of Theoretical Biology*, 6(2):181–188, IN3, 189–200, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490027X.

Mel:1964:SFFc

[Mel64c] Howard C. Mel. Stable-flow free boundary (STAFLO) migration and fractionation of cell mixtures: III. Migration principles — sedimentation and electrophoresis. *Journal of Theoretical Biology*, 6(3):307–322, IN1, 323–324, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900505.

MacGillivray:1969:AGC

[MH69] A. D. MacGillivray and Daphne Hare. Applicability of Goldman's constant field assumption to biological systems. *Journal of Theoretical Biology*, 25(1):113–126, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800196.

Morowitz:1964:PSM

[MHMQ64] H. J. Morowitz, W. A. Higinbotham, S. W. Matthysse, and H. Quastler. Passive stability in a metabolic network. *Journal of Theoretical Biology*, 7(1):98–111, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900438.

Milne:1962:TNC

[Mil62] A. Milne. On a theory of natural control of insect population. *Journal of Theoretical Biology*, 3(1):19–50, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic).

URL http://www.sciencedirect.com/science/article/pii/S0022519362800034.

Miles:1966:MWM

[Mil66] P. W. Miles. A modification of Wigglesworth's model for the excretion of uric acid in insects, in the light of modern hypotheses of ion transport. *Journal of Theoretical Biology*, 12(1):130–132, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901895.

Moses:1966:SMC

[MLH66] V. Moses and K. K. Lonberg-Holm. The study of metabolic compartmentalization. *Journal of Theoretical Biology*, 10(2):336–355, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901317.

Macgillivray:1966:IIS

[MM66a] A. D. Macgillivray and A. I. McMullen. On the influence of ionic strength on the melting temperature of DNA. *Journal of Theoretical Biology*, 12(2):260–265, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901172.

MacGillivray:1966:TSR

[MM66b] A. D. MacGillivray and A. I. McMullen. A theoretical study of the role of salt concentration in the melting of DNA. *Journal of Theoretical Biology*, 12(1):75–88, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690186X.

MacGillivray:1968:THC

[MM68a] A. D. MacGillivray and A. I. McMullen. Theory of helix-coil transitions based on the non-linear Poisson–Boltzmann equation. *Journal of Theoretical Biology*, 19(2):159–168, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901112.

Moore:1968:LSC

[MM68b] G. E. Moore and W. F. McLimans. The life span of the cultured normal cell: Concepts derived from studies of human lymphoblasts. *Journal of Theoretical Biology*, 20(2):217–226, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901914.

Morowitz:1966:PBC

[Mor66] Harold J. Morowitz. Physical background of cycles in biological systems. *Journal of Theoretical Biology*, 13(??):60–62, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900075.

Morowitz:1969:MAF

[Mor69] Harold J. Morowitz. A mechanism for the amplification of fluctuations in racemic mixtures. *Journal of Theoretical Biology*, 25(3):491–494, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800354.

Miller:1963:TPM

[MP63] D. S. Miller and P. R. Payne. A theory of protein metabolism. *Journal of Theoretical Biology*, 5(3):398–411, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900869.

Mueller:1963:IER

[MR63] Paul Mueller and Donald O. Rudin. Induced excitability in reconstituted cell membrane structure. *Journal of Theoretical Biology*, 4 (3):268–280, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900067.

Mueller:1968:RAP

[MR68] Paul Mueller and Donald O. Rudin. Resting and action potentials in experimental bimolecular lipid membranes. *Journal of Theoretical Biology*, 18(2):222–224, IN1, 225–258, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890163X.

Murakami:1966:EAM

[Mur66] Hideo Murakami. Electron aspects of the mode of action of the mitomycin molecule. *Journal of Theoretical Biology*, 10(2):236–250, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901251.

Myhill:1969:IED

[Myh69] J. Myhill. Investigation of the effect of data error in the analysis of biological tracer data from three compartment systems. *Journal of Theoretical Biology*, 23(2):218–231, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900381.

Naora:1968:PMS

[Nao68] Hiroto Naora. A plausible mechanism of simultaneous read-out of genetic information from both strands of DNA. *Journal of Theoretical Biology*, 19(2):183–195, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901136.

Nash:1969:SRT

[Nas69] H. A. Nash. The stereoisomers of retinal — a theoretical study of energy differences. *Journal of Theoretical Biology*, 22(2):314–324, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900083.

Nelson:1962:KES

[Nel62] Eino Nelson. Kinetics of the excretion of sulfonamides during therapeutic dosage regimens. *Journal of Theoretical Biology*, 2(3):193–200, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900243.

Nelson:1963:DPS

[Nel63] Eino Nelson. Design of pharmacogenetic studies of drug metabolism. *Journal of Theoretical Biology*, 5(3):493–496, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900924.

Nicklas:1966:NOM

[Nic66] R. Bruce Nicklas. A note on orientation in mitosis and meiosis. *Journal of Theoretical Biology*, 12(1):147–150, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901925`.

Nagata:1965:QMS

[NIT+65] C. Nagata, A. Imamura, Y. Tagashira, M. Kodama, and N. Fukuda. Quantum-mechanical study on the photodimerization of aromatic molecules. *Journal of Theoretical Biology*, 9(3):357–365, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900378`.

Nagata:1968:MMA

[NM68] C. Nagata and O. Mårtensson. On the mechanism of mutagenic action of hydroxylamine. *Journal of Theoretical Biology*, 19(2):133–146, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368901094`.

Nakahama:1966:SDB

[NN66] Hiroshi Nakahama and Shinko Nishioka. Statistical dependency between intervals in neuronal impulse sequences. *Journal of Theoretical Biology*, 12(1):140–146, September 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901913`.

Norton:1966:ISM

[NO66] Dorita A. Norton and Jean M. Ohrt. Introduction to steroid molecular stacking. *Journal of Theoretical Biology*, 11(1):140–149, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366900440`.

Noack:1968:RMS

[Noa68] D. Noack. A regulatory model for steady-state conditions in populations of lysogenic bacteria. *Journal of Theoretical Biology*, 18(1):1–8, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368901665`.

Nobel:1969:BVH

[Nob69] Park S. Nobel. The Boyle–Van't Hoff relation. *Journal of Theoretical Biology*, 23(3):375–379, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900253.

Nooney:1965:MMR

[Noo65] Grove C. Nooney. Mathematical models, reality and results. *Journal of Theoretical Biology*, 9(2):239–252, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901104.

Nooney:1966:AET

[Noo66] Grove C. Nooney. Allocation of errors to theory and experiment. *Journal of Theoretical Biology*, 11(1):46–53, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900373.

Nooney:1968:ADS

[Noo68] G. C. Nooney. Age distributions in stochastically dividing populations. *Journal of Theoretical Biology*, 20(3):314–320, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901318.

Norton:1968:DNB

[Nor68] Stata Norton. On the discontinuous nature of behavior. *Journal of Theoretical Biology*, 21(2):229–243, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900726.

Naftalin:1961:ECR

[NS61] L. Naftalin and A. Stephens. The effect of concentration and rate of intravenous injection of thiopentone. *Journal of Theoretical Biology*, 1(3):407–409, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900406.

OBrien:1967:CMC

[O'B67] John S. O'Brien. Cell membranes — composition: Structure: Function. *Journal of Theoretical Biology*, 15(3):307–312, IN3, 313–324, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901403.

Ohki:1967:IIL

[OF67] Shinpei Ohki and Nobuo Fukuda. Interlayer-interaction for a lipid bilayer model. *Journal of Theoretical Biology*, 15(3):362–375, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901439.

Ohki:1967:ALG

[Ohk67] Shinpei Ohki. Application of the lattice gas theory to lipid monolayers. *Journal of Theoretical Biology*, 15(3):346–361, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901427.

Ohki:1968:DCR

[Ohk68] Shinpei Ohki. Dielectric constant and refractive index of lipid bilayers. *Journal of Theoretical Biology*, 19(1):97–115, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900088.

Ohki:1969:PLB

[Ohk69] Shinpei Ohki. Properties of lipid bilayer membranes: Determination of membrane thickness. *Journal of Theoretical Biology*, 23(1):158–168, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900733.

ONeill:1969:IEE

[O'N69] Robert V. O'Neill. Indirect estimation of energy fluxes in animal food webs. *Journal of Theoretical Biology*, 22(2):284–290, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990006X.

Ordon:1969:PDS

[Ord69] Richard Ordon. Polyribosome dynamics at steady state. *Journal of Theoretical Biology*, 22(3):515–532, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900186.

Orloci:1968:IAP

[Orl68] Laszlo Orloci. Information analysis in phytosociology: Partition, classification and prediction. *Journal of Theoretical Biology*, 20(3):271–284, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901288.

OSullivan:1962:QPE

[O'S62] D. G. O'Sullivan. Quantitative potentialities in enzyme cytochemistry. Modified Michaelis–Menten rate law applicable when a substrate diffuses slowly into an enzyme site. *Journal of Theoretical Biology*, 2(2):117–128, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900401.

Ozonoff:1969:ADV

[Ozo69] David Ozonoff. An attack on "a defense of vitalism". *Journal of Theoretical Biology*, 24(1):121–122, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980010X.

Palmiter:1963:AAR

[PA63] Michael T. Palmiter and Frederick Aladjem. The antigen-antibody reaction. IV. a quantitative theory of antigen-antibody reactions. *Journal of Theoretical Biology*, 5(2):211–235, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900602.

Palmiter:1968:CIA

[PA68] Michael T. Palmiter and Frederick Aladjem. On the composition of insoluble antigen-antibody complexes. *Journal of Theoretical Biology*, 18(1):34–52, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901690.

Paigen:1962:RDT

[Pai62] Kenneth Paigen. On the regulation of DNA transcription. *Journal of Theoretical Biology*, 3(2):268–282, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800174.

Parsons:1964:IWB

[Par64] P. A. Parsons. Interactions within and between chromosomes. *Journal of Theoretical Biology*, 6(2):208–216, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900293.

Partridge:1966:PSN

[Par66] Lloyd D. Partridge. A possible source of nerve signal distortion arising in pulse rate encoding of signals. *Journal of Theoretical Biology*, 11(2):257–281, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901652.

Parsegian:1967:ELR

[Par67] V. A. Parsegian. Evidence for long-range repulsion between bimolecular leaflets of lecithin: An examination of structural data. *Journal of Theoretical Biology*, 15(1):70–74, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900446.

Partridge:1968:PSN

[Par68] Lloyd D. Partridge. A possible source of nerve signal distortion arising in pulse rate encoding of signals. *Journal of Theoretical Biology*, 21(2):292, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900763.

Parry:1969:ACC

[Par69] David A. D. Parry. An alternative to the coiled-coil for α-fibrous proteins. *Journal of Theoretical Biology*, 24(1):73–84, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936980007X.

Passow:1967:SSD

[Pas67] H. Passow. Steady-state diffusion of non-electrolytes through epithelial brush borders. *Journal of Theoretical Biology*, 17(3):383–384, IN2, 385–398, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900999.

Pattee:1967:QMH

[Pat67] H. H. Pattee. Quantum mechanics, heredity and the origin of life. *Journal of Theoretical Biology*, 17(3):410–420, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901014.

Pavlidis:1969:PIO

[Pav69] T. Pavlidis. Populations of interacting oscillators and circadian rhythms. *Journal of Theoretical Biology*, 22(3):418–436, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900149.

Pennycuick:1968:CMS

[PCB68] C. J. Pennycuick, R. M. Compton, and Linda Beckingham. A computer model for simulating the growth of a population, or of two interacting populations. *Journal of Theoretical Biology*, 18(3):316–329, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900817.

Perl:1969:IET

[PEC69] W. Perl, R. M. Effros, and F. P. Chinard. Indicator equivalence theorem for input rates and regional masses in multi-inlet steady-state systems with partially labeled input. *Journal of Theoretical Biology*, 25(2):297–316, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800652.

Pella:1969:SMP

[Pel69] Jerome J. Pella. A stochastic model for purse seining in a two-species fishery. *Journal of Theoretical Biology*, 22(2):209–226, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900010.

Pennycuick:1969:CMO

[Pen69] Linda Pennycuick. A computer model of the Oxford great tit population. *Journal of Theoretical Biology*, 22(3):381–400, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900113.

Perault:1962:SEA

[Per62a] Anne-Marie Perault. Some electronic aspects of the mechanism of action of clostridial xanthine dehydrogenase. *Journal of Theoretical Biology*, 2(3):263–265, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900292.

Perl:1962:HMD

[Per62b] W. Perl. Heat and matter distribution in body tissues and the determination of tissue blood flow by local clearance methods. *Journal of Theoretical Biology*, 2(3):201–235, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900255.

Pettersson:1964:CMT

[Pet64] Max Pettersson. On the convenience of more thorough metric usage in the biological and allied sciences. *Journal of Theoretical Biology*, 6(2):217–243, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490030X.

Patton:1967:RPM

[PF67] Stuart Patton and Frederick M. Fowkes. The role of the plasma membrane in the secretion of milk fat. *Journal of Theoretical Biology*, 15(3):274–276, IN1, 277–281, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901373.

Patlak:1963:FSS

[PGH63] C. S. Patlak, D. A. Goldstein, and J. F. Hoffman. The flow of solute and solvent across a two-membrane system. *Journal of Theoretical Biology*, 5(3):426–442, November 1963. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900882.

Perl:1966:LBF

[PH66] W. Perl and R. L. Hirsch. Local blood flow in kidney tissue by heat clearance measurement. *Journal of Theoretical Biology*, 10(2):251–280, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901263.

Phillips:1969:UMD

[Phi69] A. P. Phillips. Unwinding models for double-helical DNA during its replication and transcription. *Journal of Theoretical Biology*, 24(3):273–278, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800524.

Pickard:1966:PNI

[Pic66] William F. Pickard. On the propagation of the nervous impulse down medullated and unmedullated fibers. *Journal of Theoretical Biology*, 11(1):30–45, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900361.

Pielou:1966:MDD

[Pie66a] E. C. Pielou. The measurement of diversity in different types of biological collections. *Journal of Theoretical Biology*, 13(??):131–144, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900130.

Pielou:1966:SDP

[Pie66b] E. C. Pielou. Species-diversity and pattern-diversity in the study of ecological succession. *Journal of Theoretical Biology*, 10(2):370–383, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901330.

Pielou:1967:MDD

[Pie67] E. C. Pielou. The measurement of diversity in different types of biological collections. *Journal of Theoretical Biology*, 15(1):177, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900483.

Packard:1968:IFA

[PK68] G. C. Packard and D. L. Kilgore. Internal fertilization: Adaptive value to early amniotes. *Journal of Theoretical Biology*, 20(2):245–248, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901938.

Parker:1967:PDK

[PL67] Rodger D. Parker and Thomas L. Lincoln. Parameters deducible from the kinetics of enzyme induction and repression. *Journal of Theoretical Biology*, 15(2):218–224, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902020.

Platt:1961:PLM

[Pla61] John R. Platt. Properties of large molecules that go beyond the properties of their chemical sub-groups. *Journal of Theoretical Biology*, 1(3):342–358, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900364.

Pullman:1969:CTI

[PLB69] Bernard Pullman, Jacqueline Langlet, and Hélène Berthod. On the S-cis-S-trans isomerism of the cyclohexene ring with respect to the polyene chain in retinals, carotenoids, vitamins a and related compounds. *Journal of Theoretical Biology*, 23(3):492–495, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900344.

Pollard:1961:PAP

[Pol61] Ernest Pollard. Physical aspects of protein and DNA synthesis. *Journal of Theoretical Biology*, 1(3):328–341, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900352.

Pollard:1963:CKA

[Pol63] Ernest Pollard. Collision kinetics applied to phage synthesis, messenger RNA, and glucose metabolism. *Journal of Theoreti-*

cal Biology, 4(1):98–112, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519363901036`.

Pollard:1965:TSL

[Pol65] Ernest C. Pollard. Theoretical studies on living systems in the absence of mechanical stress. *Journal of Theoretical Biology*, 8(1): 113–123, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900974`.

Pielou:1967:DDD

[PP67] D. P. Pielou and E. C. Pielou. The detection of different degrees of coexistence. *Journal of Theoretical Biology*, 16(3):427–437, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367900653`.

Pielou:1968:AAS

[PP68] D. P. Pielou and E. C. Pielou. Association among species of infrequent occurrence: The insect and spider fauna of polyporus betulinus (bulliard) fries. *Journal of Theoretical Biology*, 21(2):202–216, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900702`.

Pollak:1966:HBS

[PR66] Michael Pollak and Robert Rein. On the hydrogen bonding scheme between purines and pyrimidines. *Journal of Theoretical Biology*, 11(3):490–494, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366901093`.

Pollak:1968:EMS

[PR68a] M. Pollak and Robert Rein. An electrical mechanism for strand separation of DNA. *Journal of Theoretical Biology*, 19(3):333–336, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368901458`.

Pollak:1968:EEC

[PR68b] Michael Pollak and Robert Rein. An examination of the energetics of Crick's wobble hypothesis. *Journal of Theoretical Biology*, 19(3):

241–246, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901379.

Pratt:1962:FN

[Pra62] J. M. Pratt. The fixation of nitrogen. *Journal of Theoretical Biology*, 2(3):251–258, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900279.

Pring:1967:SADa

[Pri67a] M. Pring. The simulation and analysis by digital computer of biochemical systems in terms of kinetic models: I. The choice of integration method. *Journal of Theoretical Biology*, 17(3):421–429, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901026.

Pring:1967:SADb

[Pri67b] M. Pring. The simulation and analysis by digital computer of biochemical systems in terms of kinetic models: II. Curve-fitting procedures. *Journal of Theoretical Biology*, 17(3):430–435, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901038.

Pring:1967:SADc

[Pri67c] M. Pring. The simulation and analysis by digital computer of biochemical systems in terms of kinetic models: III. Generator programming. *Journal of Theoretical Biology*, 17(3):436–440, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790104X.

Pandharipande:1968:RRK

[PS68] K. R. Pandharipande and U. N. Singh. Ribosomal RNA: Kinetic analysis of incorporation of labelled precursors. *Journal of Theoretical Biology*, 20(3):285–296, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890129X.

Pscheidt:1963:BCP

[Psc63] Gordon R. Pscheidt. Biochemical correlates with phyletic division of the nervous system. *Journal of Theoretical Biology*, 5(1): 52–56, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900365.

Pullman:1962:PCR

[Pul62] Alberte Pullman. On the possibilities of correlating the redox potential of reversible systems to the molecular orbitals involved in the electron transfer. *Journal of Theoretical Biology*, 2(3): 259–262, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900280.

Perault:1961:EAM

[PVP61] A-M. Perault, C. Valdemoro, and B. Pullman. Electronic aspects of the mechanism of action of xanthine oxidase. *Journal of Theoretical Biology*, 1(2):180–189, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900443.

Pavlidis:1968:MMT

[PZO68] T. Pavlidis, W. F. Zimmerman, and J. Osborn. A mathematical model for the temperature effects on circadian rhythms. *Journal of Theoretical Biology*, 18(2):210–221, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901628.

Quastler:1962:RPC

[QZ62] H. Quastler and G. Zubay. An RNA-protein code based on replacement data. II. Adjustment and extension. *Journal of Theoretical Biology*, 3(3):496–502, November 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936280040X.

Rappaport:1965:GRC

[Rap65] R. Rappaport. Geometrical relations of the cleavage stimulus in invertebrate eggs. *Journal of Theoretical Biology*, 9(1): 51–66, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print),

1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900561.

Rapoport:1968:ATI

[Rap68] Stanley I. Rapoport. Active transport in isotropic and anisotropic systems: a critical analysis. *Journal of Theoretical Biology*, 19(3): 247–274, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901380.

Rice:1963:PSD

[RB63] William E. Rice and Robert M. Bock. The problem of sequence determination in transfer RNA. *Journal of Theoretical Biology*, 4(3): 260–267, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900055.

Ralph:1966:RPB

[RB66] R. K. Ralph and B. C. Baguley. Regulation of protein biosynthesis. *Journal of Theoretical Biology*, 13(??):164–186, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900154.

Raff:1968:PRA

[RB68a] Elizabeth C. Raff and J. J. Blum. A possible role for adenylate kinase in cilia: Concentration profiles in a geometrically constrained dual enzyme system. *Journal of Theoretical Biology*, 18(1):53–71, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901707.

Rouslin:1968:AFA

[RB68b] William Rouslin and Emory Braswell. Analysis of factors affecting lactic dehydrogenase subunit composition determinations. *Journal of Theoretical Biology*, 19(2):169–182, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901124.

Rinaldi:1969:SFM

[RB69] R. A. Rinaldi and W. R. Baker. A sliding filament model of amoeboid motion. *Journal of Theoretical Biology*, 23(3):463–

474, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900320.

Rohlf:1969:SSM

[RD69] F. James Rohlf and Demorest Davenport. Simulation of simple models of animal behavior with a digital computer. *Journal of Theoretical Biology*, 23(3):400–424, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900289.

Rehm:1968:ASC

[Reh68] W. S. Rehm. An analysis of the short-circuiting technique applied to in vivo tissues. *Journal of Theoretical Biology*, 20(3):341–354, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901343.

Rendel:1962:RBG

[Ren62] J. M. Rendel. The relationship between gene and phenotype. *Journal of Theoretical Biology*, 2(3):296–308, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900322.

Ressler:1969:CCP

[Res69] Newton Ressler. Control of cellular processes by the coupling of resonant energy to hydrogen transfer reactions I. Application to enzyme mechanisms. *Journal of Theoretical Biology*, 23(3):425–440, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900290.

Rein:1968:IEH

[RFCH68] Robert Rein, Nobuo Fukuda, George A. Clarke, and Frank E. Harris. Iterative extended Hückel study of nucleic acid bases. *Journal of Theoretical Biology*, 21(1):88–96, October 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900611.

Rose:1969:OCS

[RG69] S. Rose and P. Glow. Ontogeny of chimaerism and its sequelae. *Journal of Theoretical Biology*, 22(1):43–61, January

1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900794.

Redwood:1969:ITM

[RH69] W. R. Redwood and D. A. Haydon. Influence of temperature and membrane composition on the water permeability of lipid bilayers. *Journal of Theoretical Biology*, 22(1):1–8, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900757.

Rickards:1965:ACO

[Ric65] G. K. Rickards. An analysis of co-orientation in mitosis and meiosis. *Journal of Theoretical Biology*, 9(2):332–333, IN3, 334–349, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901189.

Riggs:1966:QHC

[Rig66] Douglas S. Riggs. A quantitative hypothesis concerning the action of the parathyroid hormone. *Journal of Theoretical Biology*, 12(3):364–372, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901494.

Rinaldini:1965:AMD

[Rin65] L. M. Rinaldini. Antigenesis and molecular differentiation. *Journal of Theoretical Biology*, 9(2):125–155, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901050.

Robson:1967:BMR

[RKB67] D. S. Robson, R. F. Kahrs, and J. A. Baker. Bounds on the mean recurrence time of subclinical epidemics in dairy herds. *Journal of Theoretical Biology*, 17(1):47–56, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900197.

Rider:1968:MPC

[RM68] K. Rider and H. J. Morowitz. The most probable covalent bond distribution in non-equilibrium systems of an atomic composition characteristic of the biosphere. *Journal of Theoretical Biology*, 21(2):278–291, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900751.

Roberts:1965:SRP

[Rob65] Richard B. Roberts. The synthesis of ribosomal protein. *Journal of Theoretical Biology*, 8(1):49–53, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900913.

Robinson:1968:RIP

[Rob68] Joseph D. Robinson. Regulating ion pumps to control cell volume. *Journal of Theoretical Biology*, 19(1):90–96, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900076.

Rosenberg:1964:PJF

[Ros64] Jerome L. Rosenberg. Professor James Franck. *Journal of Theoretical Biology*, 7(2):389, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900839.

Rosen:1967:TFM

[Ros67] Robert Rosen. Two-factor models, neural nets and biochemical automata. *Journal of Theoretical Biology*, 15(3):282–297, June 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901385.

Rosen:1968:SCP

[Ros68] Robert Rosen. Some comments on the physico-chemical description of biological activity. *Journal of Theoretical Biology*, 18(3):380–386, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900854.

Roth:1963:HCP

[Rot63] Jay S. Roth. A hypothesis concerning patterns of deoxynucleotide metabolism in tumors in relation to rate of cell proliferation. *Journal of Theoretical Biology*, 4(1):113–123, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363901048.

Rhoads:1968:SAD

[RP68] D. G. Rhoads and M. Pring. The simulation and analysis by digital computer of biochemical systems in terms of kinetic models IV. automatic derivation of enzymic rate laws. *Journal of Theoretical Biology*, 20(3):297–313, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901306.

Rummel:1961:EEH

[RPS61] W. Rummel, K. Pfleger, and E. Seifen. Experimental examination of the hypothesis of coupling between the sodium and potassium pump in erythrocytes. *Journal of Theoretical Biology*, 1(3): 318–323, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900339.

Rosado:1966:GCS

[RR66] J. M. Campos Rosado and Alan Robertson. The genetic control of sex ratio. *Journal of Theoretical Biology*, 13(??):324–329, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900257.

Reanney:1967:SOG

[RR67] D. C. Reanney and R. K. Ralph. A speculation on the origin of the genetic code. *Journal of Theoretical Biology*, 15(1): 41–52, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900422.

Reanney:1968:GCE

[RR68] D. C. Reanney and R. K. Ralph. Genetic circularity and evolution. *Journal of Theoretical Biology*, 21(2):217–228, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900714.

Rescigno:1962:AMB

[RS62] A. Rescigno and G. Segre. Analysis of multicompartmented biological systems. *Journal of Theoretical Biology*, 3(2):149–163, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800125.

Ruckenstein:1966:RSL

[RS66] E. Ruckenstein and Z. Simon. Regulation and synthesis in the living cell I. Kinetics of ribonucleic acid synthesis. *Journal of Theoretical Biology*, 11(2):282–298, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901664.

Renneboog-Squilbin:1967:TCS

[RS67] C. Renneboog-Squilbin. Theory of the chemostat — study of the conditions under which a population of micro-organisms and its mutant will coexist in the chemostat. *Journal of Theoretical Biology*, 14(1):74–101, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900951.

Reed:1967:SBE

[RTB67] Jon Reed, Robert Toombs, and Nils Aall Barricelli. Simulation of biological evolution and machine learning: I. Selection of self-reproducing numeric patterns by data processing machines, effects of hereditary control, mutation type and crossing. *Journal of Theoretical Biology*, 17(3):319–342, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900975.

Rubin:1967:OCG

[Rub67] Jerrold Rubin. Optimal classification into groups: An approach for solving the taxonomy problem. *Journal of Theoretical Biology*, 15(1):103–144, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790046X.

Russell:1968:MMO

[Rus68a] C. S. Russell. Mechanisms as models for oxidative phosphorylation. *Journal of Theoretical Biology*, 19(3):337–339, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890146X.

Russell:1968:ABM

[Rus68b] Charles D. Russell. Acid-base metabolism and the proton condition. *Journal of Theoretical Biology*, 19(2):196–214, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901148.

Rosenberg:1963:CTU

[RW63] T. Rosenberg and W. Wilbrandt. Carrier transport uphill. I. General. *Journal of Theoretical Biology*, 5(2):288–305, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900651.

Strickland:1966:SAS

[SA66] E. Hardin Strickland and Eugene Ackerman. Simulation of the action of stimulatory agents on mitochondrial respiration. *Journal of Theoretical Biology*, 10(1):114–124, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901809.

Swanson:1966:BGO

[SAFT66] C. H. Swanson, R. Aris, A. G. Fredrickson, and H. M. Tsuchiya. Bacterial growth as an optimal process. *Journal of Theoretical Biology*, 12(2):228–250, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901159.

Sagan:1967:OMC

[Sag67] Lynn Sagan. On the origin of mitosing cells. *Journal of Theoretical Biology*, 14(3):225–274, IN1–IN6, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900793.

Saidel:1968:BCPb

[Sai68a] G. M. Saidel. Bacterial cell populations in a continuously changing environment. *Journal of Theoretical Biology*, 21(2):292, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900775.

Saidel:1968:BCPa

[Sai68b] Gerald M. Saidel. Bacterial cell populations in a continuously changing environment. *Journal of Theoretical Biology*, 19(3):287–296, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901409.

Samis:1966:CBA

[Sam66] H. V. Samis. A concept of biological aging: The role of compensatory processes. *Journal of Theoretical Biology*, 13(??):236–250, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900191.

Saroff:1965:SRD

[Sar65] H. A. Saroff. The structure of ribonuclease derived from the clustering of its ionizable groups. *Journal of Theoretical Biology*, 9(2):229–238, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901098.

Sattler:1967:PIP

[Sat67] R. Sattler. Petal inception and the problem of pattern detection. *Journal of Theoretical Biology*, 17(1):31–39, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900173.

Savageau:1969:BSAa

[Sav69a] Michael A. Savageau. Biochemical systems analysis: I. Some mathematical properties of the rate law for the component enzymatic reactions. *Journal of Theoretical Biology*, 25(3):365–369, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800263.

Savageau:1969:BSAb

[Sav69b] Michael A. Savageau. Biochemical systems analysis: II. The steady-state solutions for an n-pool system using a power-law approximation. *Journal of Theoretical Biology*, 25(3):370–379, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800275.

Shea:1965:NSC

[SB65] Stephen M. Shea and Anthony F. Bartholomay. In numero studies in a cell renewal system periodically adjusted cell renewal process. *Journal of Theoretical Biology*, 9(3):389–413, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900391.

Schwimmer:1962:TDP

[Sch62] Sigmund Schwimmer. Theory of double pH optima of enzymes. *Journal of Theoretical Biology*, 3(1):102–110, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002251936280006X.

Scheuplein:1968:ART

[Sch68] Robert J. Scheuplein. On the application of rate theory to complex multibarrier flow co-ordinates: Membrane permeability. *Journal of Theoretical Biology*, 18(1):72–89, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901719.

Segal:1967:ECI

[Seg67] John R. Segal. Electrical capacitance of ion-exchanger membranes. *Journal of Theoretical Biology*, 14(1):11–34, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900902.

Segal:1969:IPB

[Seg69] John R. Segal. The "independence principle" of biological membranes: Its misuse. *Journal of Theoretical Biology*, 24(2):159–170, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800433.

Semenza:1967:RES

[Sem67] G. Semenza. Rate equations of some cases of enzyme inhibition and activation — their application to sodium-activated membrane transport systems. *Journal of Theoretical Biology*, 15(1):145–176, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900471.

Serra:1964:GCT

[Ser64] J. A. Serra. The genetic concept of treption (and brief reference to a unifying theory of cancer). *Journal of Theoretical Biology*, 6(3): 371–374, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900530.

Sugita:1963:FACb

[SF63] Motoyosi Sugita and Nobuo Fukuda. Functional analysis of chemical systems in vivo using a logical circuit equivalent: III. Analysis using a digital circuit combined with an analogue computer. *Journal of Theoretical Biology*, 5(3):412–418, IN1, 419–425, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900870.

Szent-Gyorgyi:1961:SSB

[SG61] Albert Szent-Györgyi. The supra- and submolecular in biology. *Journal of Theoretical Biology*, 1(1):75–82, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900273.

Stahl:1963:MA

[SG63] Walter R. Stahl and Harry E. Goheen. Molecular algorithms. *Journal of Theoretical Biology*, 5(2):266–287, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936390064X.

Sibatani:1964:MCD

[SH64] A. Sibatani and S. Hiai. A model of chromosome duplication in *Escherichia coli*. *Journal of Theoretical Biology*, 7(3):393–411, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490013X.

Shapiro:1961:RBI

[Sha61] Herbert Shapiro. On the relation between ionization and biological activity in some sympathomimetic amines. *Journal of Theoretical Biology*, 1(3):289–294, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900315.

Shaffer:1965:MCM

[Sha65] B. M. Shaffer. Mechanical control of the manufacture and resorption of cell surface in collective amoebae. *Journal of Theoretical Biology*, 8(1):27–40, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900895.

Shea:1962:SAH

[She62a] Stephen M. Shea. The statistical approach in histology. *Journal of Theoretical Biology*, 3(1):111–122, July 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800071.

Sheppard:1962:SMT

[She62b] C. W. Sheppard. Stochastic models for tracer experiments in the circulation: Parallel random walks. *Journal of Theoretical Biology*, 2(1):33–47, January 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800253.

Shear:1967:ABH

[She67] David Shear. An analog of the Boltzmann h-theorem (a Liapunov function) for systems of coupled chemical reactions. *Journal of Theoretical Biology*, 16(2):212–228, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900057.

Shikata:1963:RCS

[Shi63] Morikazu Shikata. Representation and calculation of selfed population by group ring. *Journal of Theoretical Biology*, 5(1):142–160, July 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900420.

Shikata:1964:IEC

[Shi64] Morikazu Shikata. Interference effect of cross-overs in selfed populations. *Journal of Theoretical Biology*, 7(2):181–223, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900700.

Shikata:1966:CIC

[Shi66a] Morikazu Shikata. Calculations of inbreeding coefficient and gene-set probability in diploid populations. *Journal of Theoretical Biology*, 10(1):15–27, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901767.

Shikata:1966:CEH

[Shi66b] Morikazu Shikata. Cross-over effect in homozygosity by descent. *Journal of Theoretical Biology*, 10(2):196–208, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901238.

Shikata:1966:RRC

[Shi66c] Morikazu Shikata. Rod and ring chromosome cross-overs described by braid group. *Journal of Theoretical Biology*, 10(2):184–195, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901226.

Shikata:1966:TGI

[Shi66d] Morikazu Shikata. Transformation of generalized inbreeding coefficient in components of pedigree. *Journal of Theoretical Biology*, 10(1):11–14, January 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901755.

Shikata:1967:CIC

[Shi67a] Morikazu Shikata. Change of inbreeding coefficient in mixed selfing and random mating populations. *Journal of Theoretical Biology*, 17(2):229–239, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901683.

Shikata:1967:ESU

[Shi67b] Morikazu Shikata. Effect of selections upon recombination probabilities in selfed populations. *Journal of Theoretical Biology*, 14(1):59–65, January 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900938.

Shikata:1967:GIC

[Shi67c] Morikazu Shikata. Generalized inbreeding coefficient in seifing obtained from group king. *Journal of Theoretical Biology*, 17(3):447–450, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367901063`.

Shikata:1967:VHD

[Shi67d] Morikazu Shikata. Variance of homozygosity by descent in selfed populations. *Journal of Theoretical Biology*, 17(2):240–245, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367901695`.

Shikata:1969:TMIa

[Shi69a] Morikazu Shikata. Transformation of mictic index through a diploid individual. *Journal of Theoretical Biology*, 24(2):131–136, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800408`.

Shikata:1969:TMIb

[Shi69b] Morikazu Shikata. Transformation of mictic indices in components of pedigree. *Journal of Theoretical Biology*, 24(3):279–293, September 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800536`.

Sibatani:1964:MDS

[Sib64] Atuhiro Sibatani. The mechanism of DNA synthesis by DNA polymerase. *Journal of Theoretical Biology*, 7(3):558–561, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900219`.

Siegel:1969:TAT

[Sie69] Israel Siegel. Theoretical aspects of termination of immune tolerance by cross-reacting antigens. *Journal of Theoretical Biology*, 24(2):171–191, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519369800445`.

Simon:1965:LMH

[Sim65a] Z. Simon. Lethal mutation hypothesis for the mechanism of action of the cytostatic alkylating agents. *Journal of Theoretical Biology*, 8(1):193–197, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901025.

Simon:1965:RBB

[Sim65b] Z. Simon. Recognition between biological molecules. *Journal of Theoretical Biology*, 9(3):414–421, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900408.

Simon:1965:MSS

[Sim65c] Zeno Simon. Multi-steady-state model for cell differentiation. *Journal of Theoretical Biology*, 8(2):258–263, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900767.

Simon:1967:RSP

[Sim67] Z. Simon. Regulation and synthesis processes in the living cell IV. mitotic and functional homeostasis by competition between derepressed operons. *Journal of Theoretical Biology*, 16(2):294–305, August 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900100.

Singh:1965:RTR

[Sin65] U. N. Singh. Rapidly turning over RNA as a limiting factor in protein synthesis: Effect of actinomycin D. *Journal of Theoretical Biology*, 8(3):480–489, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900238.

Sink:1967:TAS

[Sin67] J. D. Sink. Theoretical aspects of sex odor in swine. *Journal of Theoretical Biology*, 17(1):174–180, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900276.

Singh:1969:PUM

[Sin69] U. N. Singh. Polyribosomes and unstable messenger RNA: a stochastic model of protein synthesis. *Journal of Theoretical Biology*, 25(3):444–460, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800329.

Shea:1969:VTA

[SKB69] Stephen M. Shea, Morris J. Karnovsky, and William H. Bossert. Vesicular transport across endothelium: Simulation of a diffusion model. *Journal of Theoretical Biology*, 24(1):30–32, IN1, 33–42, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800044.

Smith:1966:AAC

[Smi66] Malcolm H. Smith. The amino acid composition of proteins. *Journal of Theoretical Biology*, 13(??):261–282, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690021X.

Smith:1967:CTH

[Smi67] C. Lavett Smith. Contribution to a theory of hermaphroditism. *Journal of Theoretical Biology*, 17(1):76–90, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900215.

Snell:1965:FTO

[Sne65] Fred M. Snell. Facilitated transport of oxygen through solutions of hemoglobin. *Journal of Theoretical Biology*, 8(3):469–479, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900226.

Sneath:1966:RBC

[Sne66] P. H. A. Sneath. Relations between chemical structure and biological activity in peptides. *Journal of Theoretical Biology*, 12(2):157–195, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901123.

Sokal:1962:TET

[Sok62] Robert R. Sokal. Typology and empiricism in taxonomy. *Journal of Theoretical Biology*, 3(2):230–267, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800162.

Soloway:1966:AHN

[Sol66a] A. H. Soloway. Aromatic hydroxylation — a new biosynthetic mechanism. *Journal of Theoretical Biology*, 13(??):100–105, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900117.

Soloway:1966:SLP

[Sol66b] A. H. Soloway. Squalene to lanosterol-possible biosynthetic pathway. *Journal of Theoretical Biology*, 13(??):429–432, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900300.

Savage:1966:SDP

[SP66] John R. K. Savage and D. G. Papworth. The site distribution parameter for radiation induced chromosome exchanges. *Journal of Theoretical Biology*, 11(1):1–9, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900336.

Savage:1969:DHA

[SP69] J. R. K. Savage and D. G. Papworth. Distortion hypothesis: An alternative to a limited number of sites for radiation-induced chromosome exchange. *Journal of Theoretical Biology*, 22(3):493–514, March 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900174.

Spetner:1964:NSI

[Spe64] L. M. Spetner. Natural selection: An information-transmission mechanism for evolution. *Journal of Theoretical Biology*, 7(3):412–429, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900141.

Spencer:1967:BVH

[Spe67] Richard P. Spencer. A blood volume heart weight relationship. *Journal of Theoretical Biology*, 17(3):441–446, December 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901051.

Sprent:1967:EMG

[Spr67] P. Sprent. Estimation of mean growth curves for groups of organisms. *Journal of Theoretical Biology*, 17(1):159–173, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900264.

Simon:1966:RSPa

[SR66a] Z. Simon and E. Ruckenstein. Regulation and synthesis processes in the living cell II. Kinetics of protein synthesis. *Journal of Theoretical Biology*, 11(2):299–313, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901676.

Simon:1966:RSPb

[SR66b] Z. Simon and E. Ruckenstein. Regulation and synthesis processes in the living cell III. Interrelated operon triggers as elements of the cellular automaton. *Journal of Theoretical Biology*, 11(2): 314–333, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901688.

Satir:1964:MNS

[SS64] P. Satir and B. Satir. A model for ninefold symmetry in α keratin and cilia. *Journal of Theoretical Biology*, 7(1):123–124, IN1, 125–128, July 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900451.

Snell:1966:ORR

[SS66] Fred M. Snell and Barry Stein. Onsager reciprocal relations in complex membranes. *Journal of Theoretical Biology*, 10(2):177–183, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901214.

Spangler:1967:TFAb

[SS67a] Robert A. Spangler and Fred M. Snell. Transfer function analysis of an oscillatory model chemical system. *Journal of Theoretical Biology*, 16(3):381–405, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790063X.

Spangler:1967:TFAa

[SS67b] Robert A. Spangler and Fred M. Snell. Transfer function analysis of chemical kinetic systems. *Journal of Theoretical Biology*, 16(3):366–380, September 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900628.

Sendov:1968:CSR

[ST68] Bl. Sendov and R. Tsanev. Computer simulation of the regenerative processes in the liver. *Journal of Theoretical Biology*, 18(1):90–104, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901720.

Stahl:1965:AUP

[Sta65] Walter R. Stahl. Algorithmically unsolvable problems for a cell automaton. *Journal of Theoretical Biology*, 8(3):371–394, May 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900172.

Stanley:1966:MTG

[Sta66] John Stanley. A mathematical theory of the growth of populations of the flour beetle *Tribolium confusum*, Duval IX. The persistence of tunnels in the flour mass. *Journal of Theoretical Biology*, 13(??):379–411, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900282.

Stahl:1967:CMC

[Sta67] Walter R. Stahl. A computer model of cellular self-reproduction. *Journal of Theoretical Biology*, 14(2):187–205, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901130.

Stern:1964:QPB

[Ste64] Alexander W. Stern. Quantum physics and biological systems. *Journal of Theoretical Biology*, 7(2):318–328, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490075X.

Stewart:1968:MAE

[Ste68] Robert M. Stewart. Model analysis of electrical conduction through morphologically complex cells and cell masses. *Journal of Theoretical Biology*, 19(3):311–318, IN1, 319, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901422.

Stibitz:1968:MCP

[Sti68] George R. Stibitz. A model and computer program for biological networks. *Journal of Theoretical Biology*, 19(1):116–132, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890009X.

Stonehill:1965:MDR

[Sto65] E. H. Stonehill. On the mechanism of DNA replication. *Journal of Theoretical Biology*, 9(2):323–328, IN1, 329–331, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901177.

Strauss:1962:SAM

[Str62] Bernard S. Strauss. Some aspects of mutation. *Journal of Theoretical Biology*, 2(3):266–278, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900309.

Straile:1969:VCO

[Str69] William E. Straile. Vertical cutaneous organization. *Journal of Theoretical Biology*, 24(2):203–204, IN1–IN3, 205–215, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800469.

Sheppard:1969:SMT

[SU69] C. W. Sheppard and M. B. Uffer. Stochastic models for tracer experiments in the circulation: II. Serial random walks. *Journal of Theoretical Biology*, 22(1):188–207, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900873.

Subirana:1968:RSM

[Sub68] Juan A. Subirana. Role of spindle microtabules in mitosis. *Journal of Theoretical Biology*, 20(1):117–123, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900970.

Sugita:1963:FACa

[Sug63] Motoyosi Sugita. Functional analysis of chemical systems in vivo using a logical circuit equivalent. II. The idea of a molecular automaton. *Journal of Theoretical Biology*, 4(2):179–184, IN2, 185–192, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900274.

Sugita:1966:FAC

[Sug66] Motoyosi Sugita. Functional analysis of chemical systems in vivo using a logical circuit equivalent IV. simulation of cellular control systems using a hybrid computing system. *Journal of Theoretical Biology*, 13(??):330–356, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900269.

Smith:1966:CBQ

[SW66] H. J. Smith and H. Williams. A comment on the binding of quaternary ammonium inhibitors at the anionic site of acety1cholinesterase. *Journal of Theoretical Biology*, 11(1):177–179, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900488.

Smith:1967:PTA

[SW67] H. J. Smith and H. Williams. A partition theory for the action of quaternary ammonium compounds at the muscarinic receptor site. *Journal of Theoretical Biology*, 14(2):218–224, February 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901154.

Swade:1969:CRF

[Swa69] Richard H. Swade. Circadian rhythms in fluctuating light cycles: Toward a new model of entrainment. *Journal of Theoretical Biology*, 24(2):227–239, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800482.

Sykes:1966:MRR

[Syk66] J. Sykes. A mechanism for the regulation of ribosomal ribonucleic acid synthesis in bacteria. *Journal of Theoretical Biology*, 12(3):373–384, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901500.

Simha:1962:SDN

[SZ62] R. Simha and J. M. Zimmerman. Sequence distribution and neighbor effects of various orders in polynucleotides. *Journal of Theoretical Biology*, 2(2):87–104, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900383.

Simha:1965:CCD

[SZ65] R. Simha and J. M. Zimmerman. Calculation of chainlength distribution between “markers” in mixed polynucleotides. *Journal of Theoretical Biology*, 8(1):81–86, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900949.

Taborsky:1967:APT

[Tab67] Robert G. Taborsky. Atherosclerosis: a physical-thermodynamic hypothesis for its genesis. *Journal of Theoretical Biology*, 16(1):147–150, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900586.

Takahashi:1966:TBC

[Tak66] Manabu Takahashi. Theoretical basis for cell cycle analysis I. Labelled mitosis wave method. *Journal of Theoretical Biol-*

ogy, 13(??):202–211, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900178.

Takahashi:1968:TBC

[Tak68] Manabu Takahashi. Theoretical basis for cell cycle analysis: II. Further studies on labelled mitosis wave method. *Journal of Theoretical Biology*, 18(2):195–209, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901616.

Trams:1966:MLS

[TB66] Eberhard G. Trams and Elise Ann Brown. Models for lipoprotein synthesis. *Journal of Theoretical Biology*, 12(3):311–326, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901457.

Trucco:1968:PLM

[TB68] E. Trucco and P. J. Brockwell. Percentage labeled mitoses curves in exponentially growing cell populations. *Journal of Theoretical Biology*, 20(3):321–337, September 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936890132X.

Terzi:1965:RGC

[Ter65] Mario Terzi. Radiosensitivity and genetic complexity. *Journal of Theoretical Biology*, 8(2):233–243, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900743.

Thoma:1968:PMA

[Tho68] John A. Thoma. A possible mechanism for amylase catalysis. *Journal of Theoretical Biology*, 19(3):297–310, June 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901410.

Takahashi:1967:CCR

[TI67] Manabu Takahashi and Kazuo Inouye. Characteristics of cube root growth of transplantable tumours. *Journal of Theoretical Biology*, 14(3):275–283, March 1967. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936790080X.

Tien:1967:BLM

[Tie67] H. T. Tien. Black lipid membranes: Thickness determination and molecular organization by optical methods. *Journal of Theoretical Biology*, 16(1):97–110, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900550.

Tallis:1966:SAS

[TL66] G. M. Tallis and Morley Leyton. A stochastic approach to the study of parasite populations. *Journal of Theoretical Biology*, 13(??):251–260, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900208.

Tenforde:1968:MDF

[TM68] Tom Tenforde and Robert Macey. Membrane diffusion with feedback regulation of cell volume; estimation of membrane tortuosity and diffusion coefficients. *Journal of Theoretical Biology*, 19(2):232–240, May 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901161.

Tollin:1962:PPP

[Tol62] Gordon Tollin. The primary process of photosynthesis: an interpretation of the Emerson effect and of the light-induced spectral changes at 7,000 å. *Journal of Theoretical Biology*, 2(2):105–116, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900395.

Tolansky:1963:IBM

[Tol63] S. Tolansky. Interferometry and biological microtopography. *Journal of Theoretical Biology*, 5(2):306–312, IN1–IN14, 313–320, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900663.

Tomita:1966:MCR

[Tom66a] Tadao Tomita. Membrane capacity and resistance of mammalian smooth muscle. *Journal of Theoretical Biology*, 12(2):216–227, November 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901147.

Tomlinson:1966:AHP

[Tom66b] J. Tomlinson. The advantages of hermaphroditism and parthenogenesis. *Journal of Theoretical Biology*, 11(1):54–58, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900385.

Talmage:1963:ARM

[TP63] David W. Talmage and David S. Pearlman. The antibody response: a model based on antagonistic actions of antigen. *Journal of Theoretical Biology*, 5(2):321–339, September 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900675.

Thiebaux:1967:SSP

[TP67] H. Jean Thiebaux and H. H. Pattee. Statistical studies of protein sequences: Pair and triplet analysis in helical conformations. *Journal of Theoretical Biology*, 17(1):121–135, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900240.

TenBosch:1963:RET

[TR63] J. J. Ten Bosch and Th. W. Ruijgrok. A remark on the energy transfer in biological systems. *Journal of Theoretical Biology*, 4(2):225–227, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900316.

TenHoopen:1965:FCP

[TR65] M. Ten Hoopen and H. A. Reuver. An n-fold coincidence problem in physiology. *Journal of Theoretical Biology*, 9(1):117–123, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900603.

Triggle:1964:RMS

[Tri64] D. J. Triggle. The reaction mechanisms, selectivity and specificity of action of 2-halogenoethylamines — an analysis. *Journal of The-*

oretical Biology, 7(2):241–275, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900724.

Triggle:1969:CGF

[Tri69] D. J. Triggle. A comment on "a generalized functional role for phospholipids". *Journal of Theoretical Biology*, 25(3):499–501, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800378.

Trucco:1967:CFN

[Tru67] E. Trucco. Collection functions for non-equivivant cell populations. *Journal of Theoretical Biology*, 15(2):180–189, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367901993.

Tsanev:1966:MRM

[TS66] R. Tsanev and Bl. Sendov. A model of the regulatory mechanism of cellular multiplication. *Journal of Theoretical Biology*, 12(3):327–341, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901469.

Tsanev:1969:MCS

[TS69] R. Tsanev and Bl. Sendov. A model of cancer studied by a computer. *Journal of Theoretical Biology*, 23(1):124–134, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936990071X.

Tyler:1966:MIP

[Tyl66] Albert Tyler. A model illustrating possible instability of cellular structure under conditions of weightlessness. *Journal of Theoretical Biology*, 11(1):59–62, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900397.

Urry:1965:BETa

[UE65a] Dan W. Urry and Henry Eyring. Biological electron transport: I. Imidazole pump model of electron transport: a group transfer model. *Journal of Theoretical Biology*, 8(1):198–213, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901037.

Urry:1965:BETb

[UE65b] Dan W. Urry and Henry Eyring. Biological electron transport: II. A variation of the imidazole pump model to include coupling. *Journal of Theoretical Biology*, 8(1):214–220, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901049.

Ullrick:1967:TCS

[Ull67] William C. Ullrick. A theory of contraction for striated muscle. *Journal of Theoretical Biology*, 15(1):53–69, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900434.

Urbakh:1968:RDR

[Urb68] V. Yu Urbakh. Reversible denaturation of RNA and memory. *Journal of Theoretical Biology*, 18(2):259–261, February 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901641.

Vaidhyanathan:1964:PET

[Vai64] V. S. Vaidhyanathan. On the permeability of electrolytes through biological membranes. *Journal of Theoretical Biology*, 7(2):334–338, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900773.

Vaidhyanathan:1965:CAT

[Vai65a] V. S. Vaidhyanathan. On the criteria of active transport. *Journal of Theoretical Biology*, 9(3):489–501, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900469.

Vaidhyanathan:1965:SMT

[Vai65b] V. S. Vaidhyanathan. Statistical mechanical theory of electrolyte diffusion inside a charged membrane. *Journal of Theoretical Biology*, 8(2):344–356, March 1965. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900822.

Vaidhyanathan:1965:STT

[Vai65c] V. S. Vaidhyanathan. Statistical theory of transport of electrolytes across a charged membrane. *Journal of Theoretical Biology*, 9(3):478–488, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900457.

Vaidhyanathan:1966:SCS

[Vai66a] V. S. Vaidhyanathan. Some comments on steady state transport of ions across a charged biological membrane. *Journal of Theoretical Biology*, 10(2):159–176, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901202.

Vaidhyanathan:1966:TME

[Vai66b] V. S. Vaidhyanathan. Theory of mechano-electric membrane transducers. *Journal of Theoretical Biology*, 13(??):18–31, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690004X.

Vaidhyanathan:1969:CFE

[Vai69] V. S. Vaidhyanathan. Conductance function of electrolyte transport across lipid films. *Journal of Theoretical Biology*, 23(2):232–250, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900393.

VanLiew:1967:GAA

[Van67] Hugh D. Van Liew. Graphic analysis of aggregates of linear and exponential processes. *Journal of Theoretical Biology*, 16(1):43–53, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900525.

Vayo:1965:DEP

[Vay65] H. Westcott Vayo. Determination of the electrical parameters of vertebrate visceral smooth muscle. *Journal of Theoretical Biology*, 9(2):263–277, September 1965. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901128.

vanderSteen:1969:CVP

[vdS69] W. J. van der Steen. A comment on vitalistic principles. *Journal of Theoretical Biology*, 24(1):123–125, July 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800111.

Vaidhyanathan:1968:SLF

[VG68] V. S. Vaidhyanathan and Narendra S. Goel. Stability of lipid films in aqueous electrolyte media: Electrostatic interactions. *Journal of Theoretical Biology*, 21(3):331–347, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901197.

Vidaver:1966:IPF

[Vid66] George A. Vidaver. Inhibition of parallel flux and augmentation of counter flux shown by transport models not involving a mobile carrier. *Journal of Theoretical Biology*, 10(2):301–306, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901287.

Vogel:1969:SDS

[VNM69] H. Vogel, H. Niewisch, and G. Matioli. Stochastic development of stem cells. *Journal of Theoretical Biology*, 22(2):249–270, February 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900046.

vanOss:1963:AAP

[vO63] C. J. van Oss. Antigen-antibody precipitates considered as specifically impermeable barriers. *Journal of Theoretical Biology*, 4(2):223–224, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900304.

Vaidhyanathan:1964:PNE

[VP64] V. S. Vaidhyanathan and W. H. Perkins. On the permeability of non-electrolytes through biological membranes. *Journal of Theo-*

retical Biology, 7(2):329–333, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900761.

Veillard:1965:ASE

[VP65a] Alain Veillard and Bernard Pullman. Aspects de la structure électronique de la vitamine B_{12} et de ses analogues. *Journal of Theoretical Biology*, 8(2):307–316, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900792.

Veillard:1965:CSE

[VP65b] Alain Veillard and Bernard Pullman. Complements sur la structure electronique des ferroporphyrines biologiques. *Journal of Theoretical Biology*, 8(2):317–326, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900809.

Vaidhyanathan:1966:MII

[VP66a] V. S. Vaidhyanathan and Hannah M. Phillips. Mobile ion interactions in the membrane phase. *Journal of Theoretical Biology*, 13(??):32–47, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900051.

Vaidhyanathan:1966:MTN

[VP66b] V. S. Vaidhyanathan and Hannah M. Phillips. Molecular theory of nerve potentials. *Journal of Theoretical Biology*, 10(3):460–489, April 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690138X.

Vaidhyanathan:1964:TTA

[VPT64] V. S. Vaidhyanathan, W. H. Perkins, and E. J. Towbin. Theory of transport across a membrane model. *Journal of Theoretical Biology*, 7(2):339–351, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900785.

Vander:1961:TMA

[VWM61] Arthur J. Vander, Walter S. Wilde, and Richard L. Malvin. A theoretical mode of action of aldosterone. *Journal of Theoretical Biology*, 1(2):236–243, April 1961. CODEN JTBIAP. ISSN

0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900479.

Wong:1965:CHA

[WA65] James Wong and Frederick Aladjem. Competitive hapten-antibody binding: Solution of the binding equation. *Journal of Theoretical Biology*, 8(1):41–48, January 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900901.

Waddington:1965:ACP

[Wad65] C. H. Waddington. Autogenous cellular periodicities as (a) temporal templates and (b) the basis of "morphogenetic fields". *Journal of Theoretical Biology*, 8(2):367–369, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900846.

Wagner:1968:KPR

[Wag68] J. G. Wagner. Kinetics of pharmacologic response I. Proposed relationships between response and drug concentration in the intact animal and man. *Journal of Theoretical Biology*, 20(2):173–201, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901884.

Wallace:1965:RHI

[Wal65] Margaret E. Wallace. The relative homozygosity of inbred lines and closed colonies. *Journal of Theoretical Biology*, 9(1):93–116, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900597.

Walser:1966:MARb

[Wal66a] Mackenzie Walser. Mathematical aspects of renal function: Reabsorption of individual solutes as interdependent processes. *Journal of Theoretical Biology*, 10(2):327–335, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901305.

Walser:1966:MARa

[Wal66b] Mackenzie Walser. Mathematical aspects of renal function: The dependence of solute reabsorption on water reabsorption, and the mechanism of osmotic natriuresis. *Journal of Theoretical Biology*, 10(2):307–326, February 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901299.

Walter:1966:QSS

[Wal66c] Charles Walter. Quasi-steady state in a general enzyme system. *Journal of Theoretical Biology*, 11(2):181–206, July 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901603.

Walter:1967:PUS

[Wal67] Charles Walter. The practicality of the use of the steady-state assumption and the inflection point method in enzyme kinetics. *Journal of Theoretical Biology*, 15(1):1–33, April 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900409.

Walter:1969:ASC

[Wal69a] Charles Walter. The absolute stability of certain types of controlled biological systems. *Journal of Theoretical Biology*, 23(1):39–52, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900666.

Walter:1969:SCB

[Wal69b] Charles Walter. Stability of controlled biological systems. *Journal of Theoretical Biology*, 23(1):23–38, April 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900654.

Wang:1963:CRA

[Wan63] Jui H. Wang. Chemical reaction accelerated transport of molecules through membranes. *Journal of Theoretical Biology*, 4(2):175–178, March 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900262.

Warner:1964:MMI

[War64] Donald T. Warner. Molecular models: IV. a suggested conformation for the protein subunit of tobacco mosaic virus. *Jour-*

nal of Theoretical Biology, 6(1):118–136, January 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900682.

Warburton:1967:MNS

[War67a] Frederick E. Warburton. A model of natural selection based on a theory of guessing games. *Journal of Theoretical Biology*, 16 (1):78–96, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900549.

Ware:1967:SBC

[War67b] G. C. Ware. The simulation of bacterial cultures on a digital computer. *Journal of Theoretical Biology*, 17(1):91–107, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900227.

Watkins:1965:PRG

[Wat65] J. C. Watkins. Pharmacological receptors and general permeability phenomena of cell membranes. *Journal of Theoretical Biology*, 9(1):37–50, July 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936590055X.

Waddington:1969:CSM

[WC69] C. H. Waddington and Russell J. Cowe. Computer simulation of a mulluscan pigmentation pattern. *Journal of Theoretical Biology*, 25(2):219–220, IN3–IN4, 221–225, November 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800603.

Weiss:1962:CMC

[Wei62] Leonard Weiss. Cell movement and cell surfaces: a working hypothesis. *Journal of Theoretical Biology*, 2(3):236–250, May 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900267.

Weiss:1963:CU

[Wei63] Paul Weiss. The cell as unit. *Journal of Theoretical Biology*, 5(3):389–397, November 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900857.

Weiss:1964:CLP

[Wei64] Leonard Weiss. Cellular locomotive pressure in relation to initial cell contacts. *Journal of Theoretical Biology*, 6(2):275–281, March 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900335.

Weiss:1968:SCD

[Wei68] Leonard Weiss. Studies on cell deformability: V. Some effects of ribonuclease. *Journal of Theoretical Biology*, 18(1):9–18, January 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901677.

Wenner:1961:DLH

[Wen61] Adrian M. Wenner. Division of labor in a honey bee colony — a Markov process? *Journal of Theoretical Biology*, 1(3):324–327, July 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519361900340.

Werman:1965:SMP

[Wer65] R. Werman. The specificity of molecular processes involved in neural transmission. *Journal of Theoretical Biology*, 9(3):471–477, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900445.

Wever:1966:DRE

[Wev66] R. Wever. The duration of re-entrainment of circadian rhythms after phase shifts of the zeitgeber a theoretical investigation. *Journal of Theoretical Biology*, 13(??):187–201, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900166.

Woolf:1966:LRT

[WGP66] L. I. Woolf, B. L. Goodwin, and C. E. Phelps. T_m-limited renal tubular reabsorption and the genetics of renal glucosuria. *Journal of Theoretical Biology*, 11(1):10–21, May 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519366900348`.

Whitehead:1965:TQS

[Whi65] E. P. Whitehead. A theory of the quaternary structure of dehydrogenases, dehydrogenating complexes, and other proteins. *Journal of Theoretical Biology*, 8(2):276–306, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900780`.

Whyte:1967:DAO

[Why67] Lancelot Law Whyte. Directive agencies in organic evolution. *Journal of Theoretical Biology*, 17(2):312–314, November 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367901749`.

Williams:1961:PFC

[Wil61a] R. J. P. Williams. Possible functions of chains of catalysts. *Journal of Theoretical Biology*, 1(1):1–17, January 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519361900236`.

Willmer:1961:HCV

[Wil61b] E. N. Willmer. Human colour vision and the perception of blue. *Journal of Theoretical Biology*, 1(2):141–179, April 1961. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519361900431`.

Williams:1962:PFC

[Wil62] R. J. P. Williams. Possible functions of chains of catalysts II. *Journal of Theoretical Biology*, 3(2):209–229, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022519362800150`.

Wilkins:1964:TPM

[Wil64] B. R. Wilkins. A theory of position memory. *Journal of Theoretical Biology*, 7(2):374–387, September 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900815.

Wilson:1966:CSM

[Wil66] Theodore A. Wilson. Capillary spacing for minimum entropy production. *Journal of Theoretical Biology*, 11(3):436–445, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366901032.

Williams:1967:MCG

[Wil67] F. M. Williams. A model of cell growth dynamics. *Journal of Theoretical Biology*, 15(2):190–207, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902007.

Williams:1969:TME

[Wil69] Richard B. Williams. A table of mean effective temperatures for the metabolism of biological systems subjected to sinusoidal cycles in temperature. *Journal of Theoretical Biology*, 24(2):240–245, August 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800494.

Winkler:1963:SSA

[Win63] Marvin H. Winkler. On the structure of a specific antibody site. *Journal of Theoretical Biology*, 4(3):237–241, May 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936390002X.

Winfree:1967:BRB

[Win67] Arthur T. Winfree. Biological rhythms and the behavior of populations of coupled oscillators. *Journal of Theoretical Biology*, 16(1):15–42, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900513.

Winne:1967:FKR

[WO67] D. Winne and H. Ochsenfahrt. Die formale kinetik der resorption unter berücksichtigung der darmdurchblutung. (German) [Formal kinetics of absorption taking into account digestive circulation]. *Journal of Theoretical Biology*, 14(3):293–315, March 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900823.

Wilkins:1962:FSLa

[WOB62a] D. J. Wilkins, R. H. Ottewill, and A. D. Bangham. On the flocculation of sheep leucocytes: I. Electrophoretic studies. *Journal of Theoretical Biology*, 2(2):165–175, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900450.

Wilkins:1962:FSLb

[WOB62b] D. J. Wilkins, R. H. Ottewill, and A. D. Bangham. On the flocculation of sheep leucocytes: II. Stability studies. *Journal of Theoretical Biology*, 2(2):176–191, March 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519362900462.

Wobschall:1968:EMN

[Wob68] D. Wobschall. An electret model of the nerve membrane. *Journal of Theoretical Biology*, 21(3):439–448, December 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901264.

Wolff:1962:KTB

[Wol62a] Sheldon Wolff. The kinetics for two-break chromosome exchanges. *Journal of Theoretical Biology*, 3(2):304–314, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800198.

Wolken:1962:PST

[Wol62b] Jerome J. Wolken. Photoreceptor structures: + their molecular organization for energy transfer. *Journal of Theoretical Biology*, 3(2):192–194, IN2, 195–204, IN4, 205–208, September 1962. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519362800149.

Wolpert:1969:PIS

[Wol69] L. Wolpert. Positional information and the spatial pattern of cellular differentiation. *Journal of Theoretical Biology*, 25(1):1–47, October 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800160.

Willard:1963:EPM

[WP63] A. Willard and B. Pullman. Etude par la méthode du champ moleculaire self-consistant de la structure electronique des bases puriques et pyrimidiques d'intérêt biochimique. *Journal of Theoretical Biology*, 4(1):37–51, January 1963. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519363900997.

Walter:1967:MBL

[WPY67] Charles Walter, Rodger Parker, and Martynas Ycas. A model for binary logic in biochemical systems. *Journal of Theoretical Biology*, 15(2):208–217, May 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367902019.

Wu:1964:NGM

[Wu64] Tai Te Wu. A note on genetic mapping. *Journal of Theoretical Biology*, 7(3):430–434, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519364900153.

Wu:1967:RFP

[Wu67] T. T. Wu. Recombination frequencies of proximal markers in bacterial conjugation. *Journal of Theoretical Biology*, 17(1):40–46, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900185.

Wuenscher:1969:NSC

[Wue69] James E. Wuenscher. Niche specification and competition modeling. *Journal of Theoretical Biology*, 25(3):436–443, December 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/S0022519369800317.

Wacker:1968:MCB

[WW68a] W. E. C. Wacker and R. J. P. Williams. Magnesium/calcium balances and steady states of biological systems. *Journal of Theoretical Biology*, 20(1):65–78, July 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900921.

Watts:1968:IME

[WW68b] R. L. Watts and D. C. Watts. The implications for molecular evolution of possible mechanisms of primary gene duplication. *Journal of Theoretical Biology*, 20(2):227–244, August 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368901926.

Wyatt:1964:CEC

[Wya64] H. V. Wyatt. Cations, enzymes and control of cell metabolism. *Journal of Theoretical Biology*, 6(3):441–470, May 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936490058X.

Weiss:1969:KRB

[WZ69] George H. Weiss and Gershom Zajicek. Kinetics of red blood cells following hemolysis. *Journal of Theoretical Biology*, 23(3):475–491, June 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900332.

Yamagata:1966:HAA

[Yam66] Yukio Yamagata. A hypothesis for the asymmetric appearance of biomolecules on earth. *Journal of Theoretical Biology*, 11(3):495–498, August 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/002251936690110X.

Ycas:1961:RAA

[Yca61] Martynas Ycas. Replacement of amino acids in proteins. *Journal of Theoretical Biology*, 1(2):244–257, April 1961. CODEN JTBIAP.

ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519361900480`.

Yeisley:1964:ACS

[YP64] Warren G. Yeisley and Ernest C. Pollard. An analog computer study of differential equations concerned with bacterial cell synthesis. *Journal of Theoretical Biology*, 7(3):485–503, November 1964. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519364900189`.

Yasuda:1967:TSF

[YS67] H. Yasuda and William Stone. Theoretical study of the fluid transport and the hydration of the cornea. *Journal of Theoretical Biology*, 16(1):111–134, July 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519367900562`.

Yas:1965:MCS

[YSB65] M. Yăs, M. Sugita, and Arlene Bensam. A model of cell size regulation. *Journal of Theoretical Biology*, 9(3):444–470, November 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519365900433`.

Zajicek:1968:CMS

[Zaj68] Gershom Zajicek. A computer model simulating the behavior of adult red blood cells. Red cell model. *Journal of Theoretical Biology*, 19(1):51–66, April 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519368900040`.

Zarybnicky:1969:MED

[Zár69] V. Zárybnický. Mechanism of t-even DNA ejection. *Journal of Theoretical Biology*, 22(1):33–40, IN1–IN2, 41–42, January 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL `http://www.sciencedirect.com/science/article/pii/0022519369900782`.

Zelman:1968:ACF

[Zel68] D. Allen Zelman. An analysis of the constant field equation. *Journal of Theoretical Biology*, 18(3):396–398, March 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541

(electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900878.

Zimmerman:1968:CAA

[ZES68] J. M. Zimmerman, Naomi Eliezer, and R. Simha. The characterization of amino acid sequences in proteins by statistical methods. *Journal of Theoretical Biology*, 21(2):170–201, November 1968. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519368900696.

Zuckerkandl:1965:MDE

[ZP65] Emile Zuckerkandl and Linus Pauling. Molecules as documents of evolutionary history. *Journal of Theoretical Biology*, 8(2):357–366, March 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365900834.

Zimmerman:1965:KMM

[ZS65] J. M. Zimmerman and Robert Simha. The kinetics of multicenter macromolecule growth along a template. *Journal of Theoretical Biology*, 9(2):156–185, September 1965. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519365901062.

Zimmerman:1966:KCU

[ZS66] J. M. Zimmerman and Robert Simha. The kinetics of cooperative unwinding and template replication of biological macromolecales. *Journal of Theoretical Biology*, 13(??):106–130, December 1966. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519366900129.

Zotin:1967:TAD

[ZZ67] A. I. Zotin and R. S. Zotina. Thermodynamic aspects of developmental biology. *Journal of Theoretical Biology*, 17(1):57–75, October 1967. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519367900203.

Zotin:1969:CAP

[ZZ69] A. I. Zotin and R. S. Zotina. Comments by the authors on the paper "thermodynamic aspect of developmental biology". *Journal of*

Theoretical Biology, 23(2):342–343, May 1969. CODEN JTBIAP. ISSN 0022-5193 (print), 1095-8541 (electronic). URL http://www.sciencedirect.com/science/article/pii/0022519369900459.