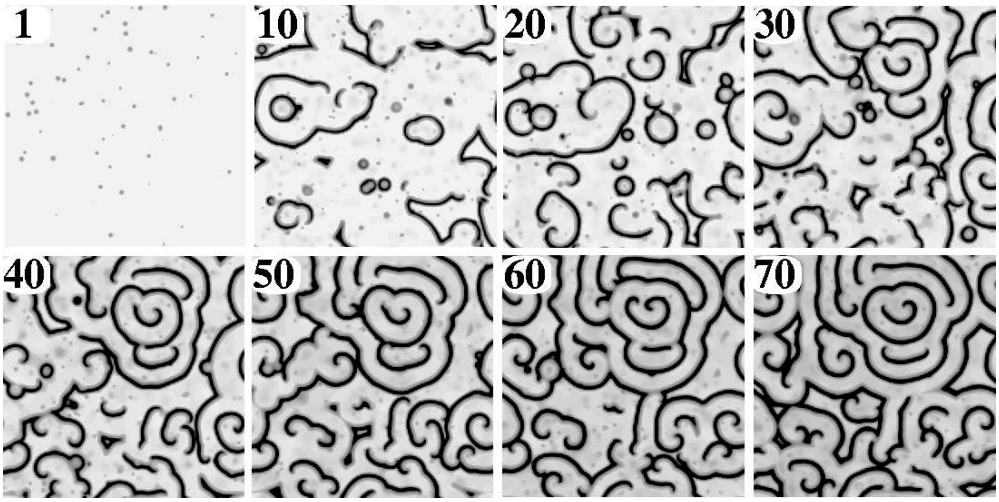

Fig. 11. Random spatial PDI secretions can account for the establishment and evolution of wave patterns. Time is given in min. Increasing PDI levels correspond to increasing background intensity, cAMP levels are in grayscale. Probability of PDI secretion $p = 0.5 \times 10^{-6}$ / timestep / cell). The diffusion constants for cAMP and PDI were $4 \times 10^{-6} cm^2 sec^{-1}$ and $8.3 \times 10^{-7} cm^2 sec^{-1}$. Grid 400×400, with $dx, dy = 0.1$ mm, dt= 0.04 min.