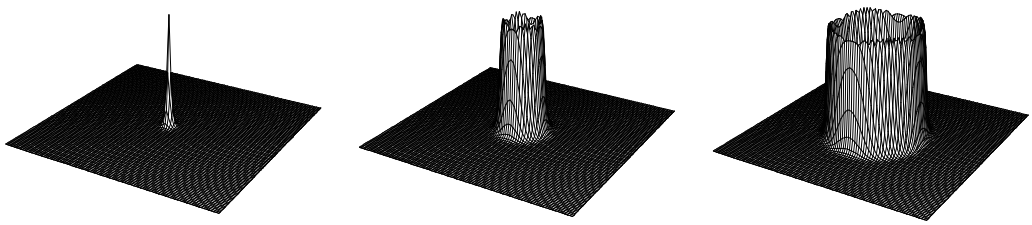

Fig. 3. The initiation of a circular wave. Parameters are as given in (Martiel & Goldbeter, 1987) and we include spatial variations so cAMP diffuses. Diffusion constant, D=$4 \times 10^{-6}$cm$^2$sec$^{-1}$. A cAMP pulse is initiated in the center. The time between each frame is 10 min. $dx = 0.1$mm, $dt = 0.04$ min. Each grid unit is $dx \times dx$ and the grid is $100 \times 100$.

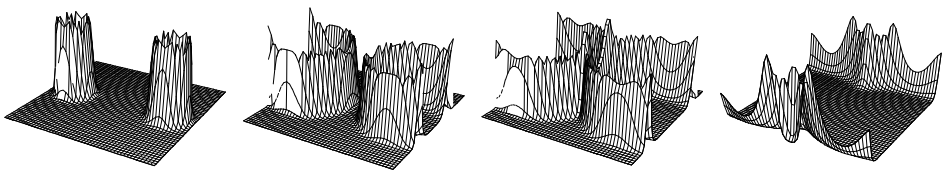

Fig. 4. Two colliding circular waves. Parameters as before. The time between each frame is 13 min. $dx = 0.1$mm, $dt = 0.04$ min, $100 \times 100$ grid.

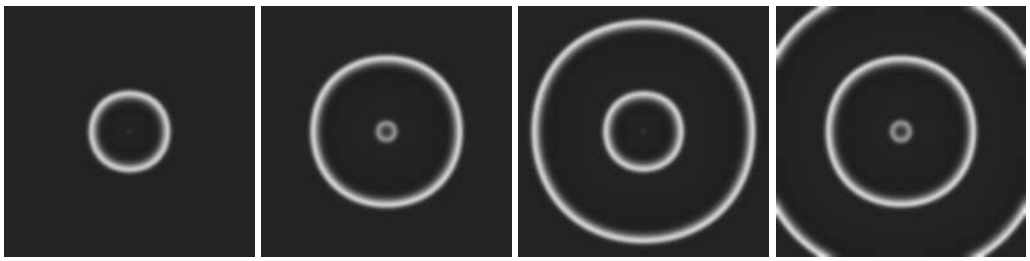

Fig. 5. Formation of a target pattern. Parameters as in Fig. 3. but here $\epsilon = 1.48$ in a region $4dx \times 4dx$ in the center. The time between each frame is 20 min. $dx = 0.1$mm, $dt = 0.04$ min, $200 \times 200$ grid.