



Plate 1. Development of a spiral wave pattern in a spatial hypercycle system. Colour molecule species: (1) purple; (2) red; (3) orange; (4) yellow; (5) dark green; (6) light green; (7) light blue; (8) middle blue; (9) dark blue. In order to increase contrast we do not show the state of a cell, but instead we show the majority molecule species in the 9-cell neighbourhood of the cell. If all 9 cells are empty the cell is white. **A)** $t=0$, random initialization; **B)** $t=500$; **C)** $t=1500$. See text for further explanation.

Plate 3. Parasite invasion. The situation of plate 1C is infected randomly with 100 parasites. If there is one parasite in the 9-cell neighbourhood of a cell, the cell is black. For other colours see plate 1. The parasite first starts to grow, but eventually it is wiped out completely and the spiral pattern is restored. **A)** $t=30$; **B)** $t=60$; **C)** $t=110$.

Plate 4. Parasite invasion in the centre of a double spiral. First the region of the double spiral is taken over by the parasite, but eventually the parasite is wiped out by other spirals. Colours as in plate 3. **A)** $t=110$; **B)** $t=550$.

Plate 5. Parasite invasion in the centre of a single spiral. The parasite remains present as a cyst. Colours as in plate 3. $t=600$.