

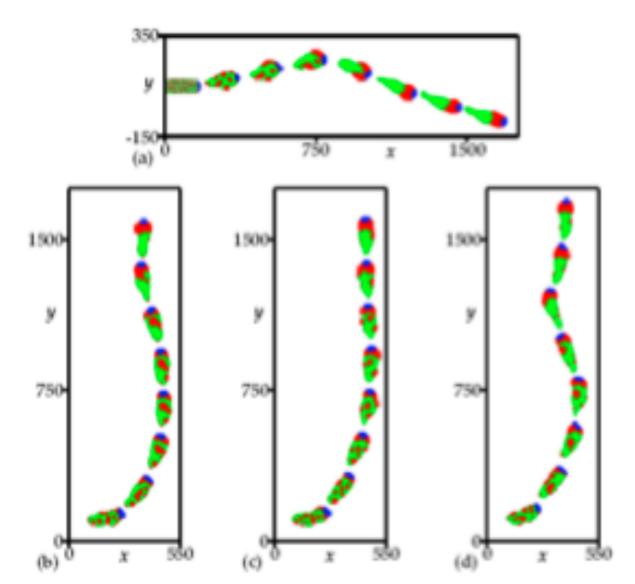


Radboud University Nijmegen

$$\frac{\partial c}{\partial t} = D_c \Delta c - f(c) - r,$$

$$\frac{\partial r}{\partial t} = \epsilon(c)(kc - r),$$

$$\frac{\partial c}{\partial t} = D_c \Delta c - d_c(c - c_0),$$
outside the amoebae



$$\Delta H' = \Delta H - \mu (c_{\rm automaton} - c_{\rm neighbour}), \label{eq:deltaH}$$

$$H_{\sigma} = \sum rac{J_{
m cell,cell}}{2} + \sum J_{
m cell,medium} + \lambda (v-V)^2$$
,

Mathematical model of Dictyostelium



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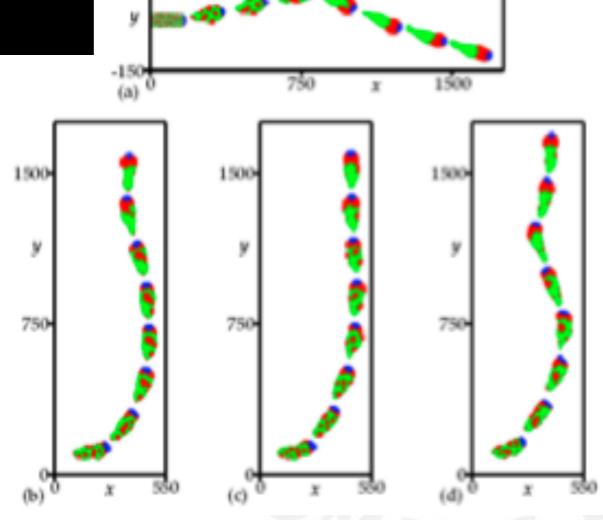
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$$\frac{\partial r}{\partial t} = \epsilon(c)(kc - r),$$

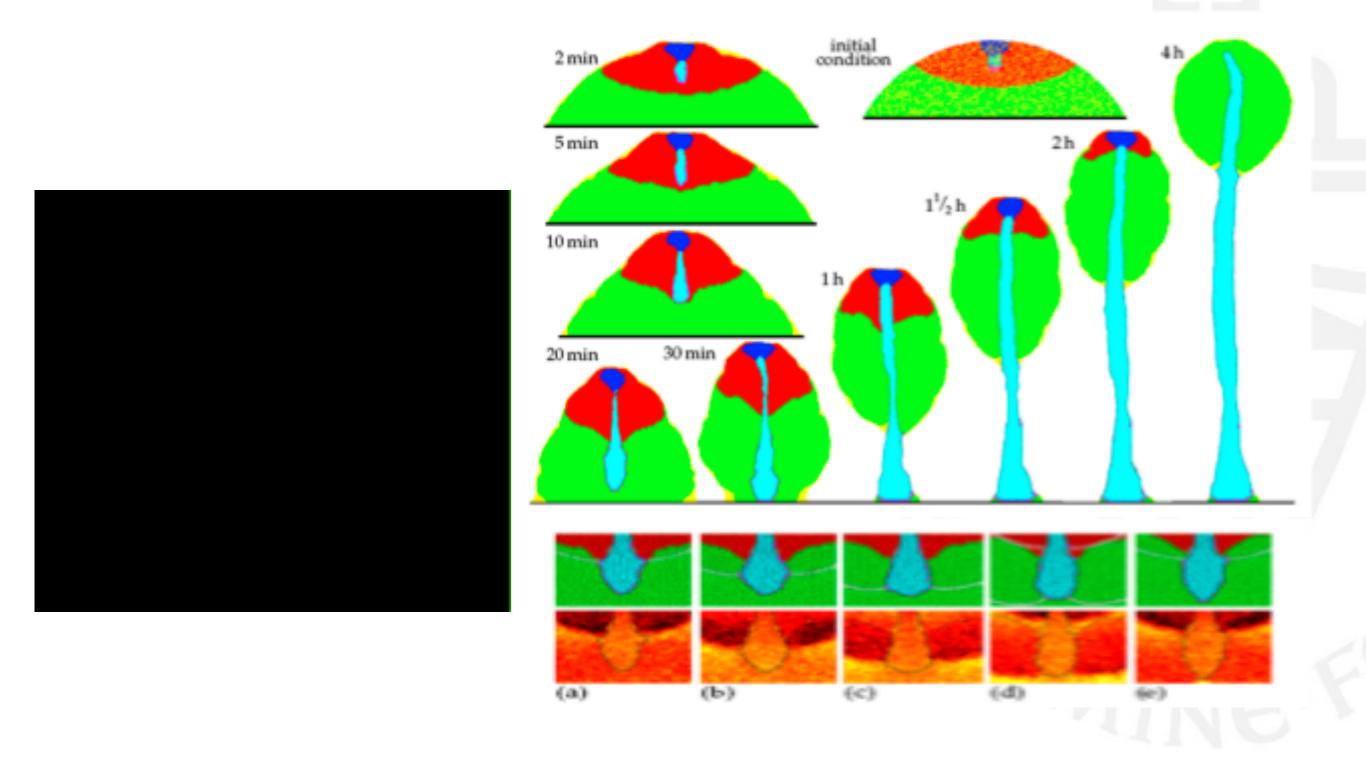
$$\frac{\partial c}{\partial t} = D_c \Delta c - d_c(c - c_0),$$

$$a = D_c \Delta c - d_c(c - c_0),$$
outside the amoebae

$$\Delta H' = \Delta H - \mu (c_{\rm automaton} - c_{\rm neighbour}), \label{eq:deltaH}$$



Mathematical model of Dictyostelium



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