

Schematic description of ODE models & integro differential models



$$\begin{aligned} \frac{du}{dt} &= \underbrace{p_u(u,v)}_{\text{change in time}} - \underbrace{d_u(u,v)}_{\text{prolif.}} \pm \underbrace{f_u(u,v)}_{\text{death}} \pm \underbrace{h_u(u,v)}_{\text{differentiation}} \pm \underbrace{g_u(u,v)}_{\text{transport}} \\ \frac{dv}{dt} &= \underbrace{p_v(u,v)}_{\text{change in time}} - \underbrace{d_v(u,v)}_{\text{prolif.}} \pm \underbrace{f_v(u,v)}_{\text{death}} \pm \underbrace{h_v(u,v)}_{\text{differentiation}} \pm \underbrace{g_v(u,v)}_{\text{transport}} \end{aligned}$$

*continuous time

*nonspatial dynamics

*spatial dynamics: compartments=discrete patches

*could have stochastic components

with $u=(u_1, u_2)$
 $v=(v_1, v_2)$

Schematic description of PDE models & integro partial-differential models

compartment:
cell populations u, v



spatial domain

■ density of population u
■ density of population v

$$\begin{aligned} \frac{du}{dt} &= \underbrace{D_u \Delta u}_{\text{change in time (t)}} - \underbrace{B_u \nabla u}_{\text{change in space (x)}} + \underbrace{f_u(u,v)}_{\text{growth}} - \underbrace{d_u(u,v)}_{\text{decay}} \\ \frac{dv}{dt} &= \underbrace{D_v \Delta v}_{\text{change in time (t)}} - \underbrace{B_v \nabla v}_{\text{change in space (x)}} + \underbrace{f_v(u,v)}_{\text{growth}} - \underbrace{d_v(u,v)}_{\text{decay}} \end{aligned}$$

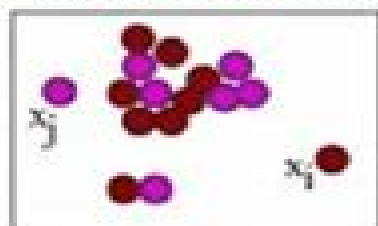
*continuous time

*spatial dynamics

*non-spatial dynamics: second variable can describe an "activity" space (x =activity)

Schematic description of agent-based (AB) & cellular automata (CA) models

lattice-free spatial domain:

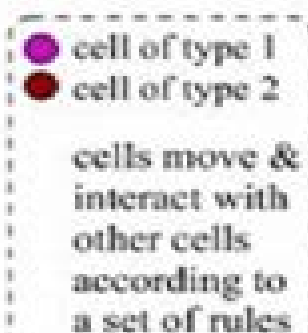


$i, j = 1..N$
 N =total cell nbrs.

cell position: $x_i(t+1) = x_i(t) + s v_i(t)$

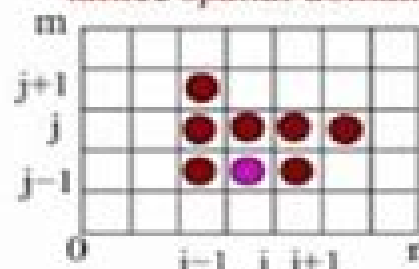
cell velocity: $v_i(t+1) = \underbrace{F(v_i(t))}_{\text{force that affects cell velocity}} + \underbrace{N_i}_{\text{noise}}$

*discrete time, space



*spatial dynamics

lattice spatial domain:



$i=1..n$
 $j=1..m$
domain size: $n \times m$

IF-THEN-ELSE rules for:

- cell division
- cell migration
- cell apoptosis
- cell differentiation

*deterministic or stochastic

Mathematical Models In Immunology

J Elliott



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