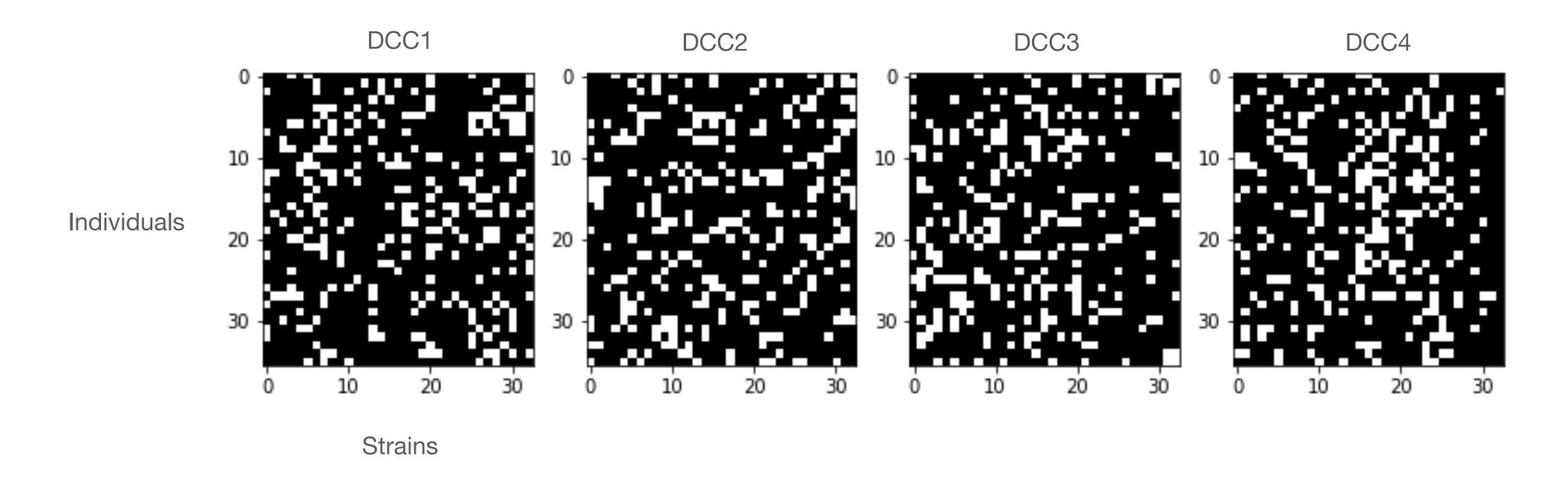
Example

Transmissions of bacterial infections in daycare centers.

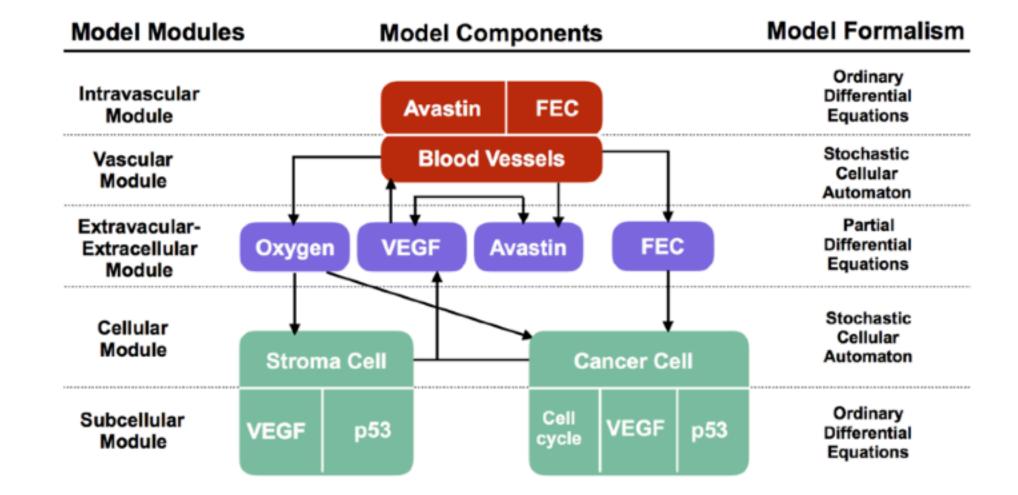
$$\begin{split} &P(I_{is}(t+dt)=1\,|\,I_{is}(t)=0)=\theta_1\cdot E_s(I(t))+\theta_2\cdot P_s, \quad \text{if} \quad I_{i1}(t)+\dots+I_{iN_s}(t)=0\\ &P(I_{is}(t+dt)=1\,|\,I_{is}(t)=0)=\theta_3\cdot (\theta_1\cdot E_s(I(t))+\theta_2\cdot P_s), \quad \text{otherwise}\\ &P(I_{is}(t+dt)=0\,|\,I_{is}(t)=1)=\gamma \end{split}$$

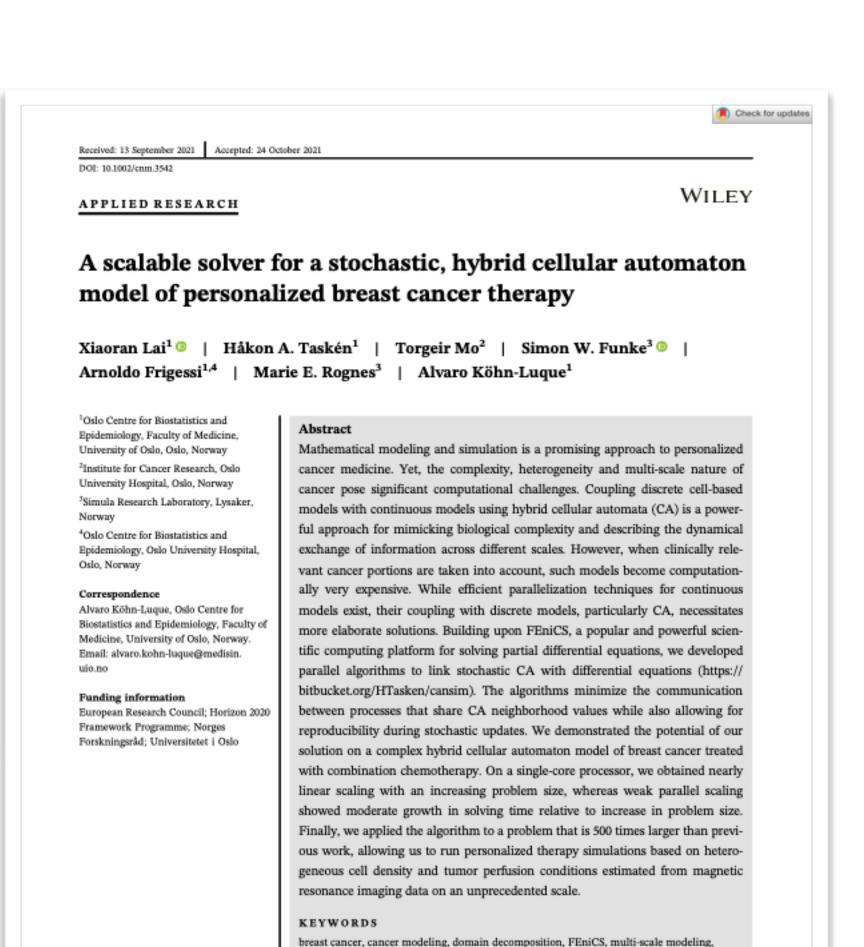


Example

Personalised medicine

- Model for evolution of breast cancer treated with combination chemotherapy
- Describes the evolution of cancer cells, blood vessels, Oxygen, VEGF and Avastin





parallel computing, personalized cancer therapy

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