

# Computational Systems Biology

## Particle Transport in Heterogeneous Media

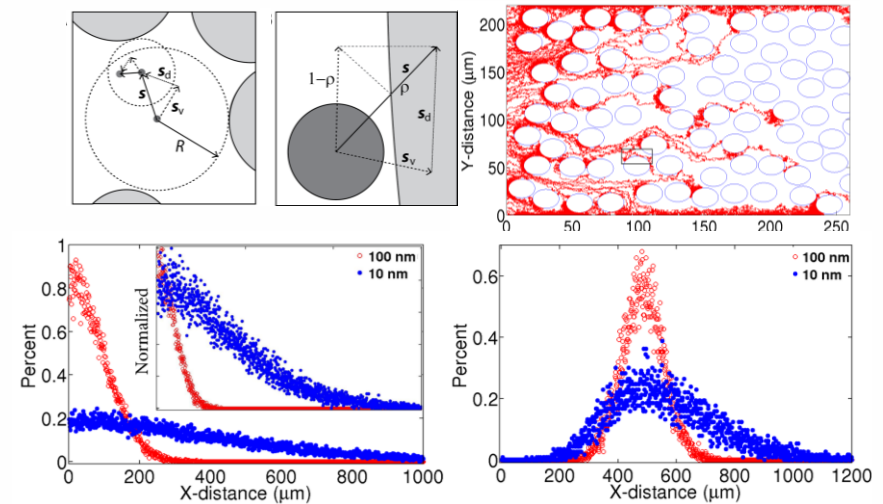
- Modeling and simulation of particle transport in porous media and biological tissues
- Model-guided design of nanocarriers

## Multiscale Modeling

- Multiscale model linking subcellular biochemistry to cellular fate decision and population-scale evolution
- High performance computation-based multiscale approach for modeling and simulation of multicellular systems

## Cell Signaling

- Autophagic regulation of cell death and survival
- Insulin growth factor receptor signaling



**Multiscale Modeling of Particle Transport in Biological Tissues**

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## Keywords

- #MultiscaleModeling, #CellSignaling, #DrugDelivery  
 #SystemsBiology, #ComputationalBiology