

2021 Virtual PhysiCell Workshop and Hackathon



July 25-31, 2021

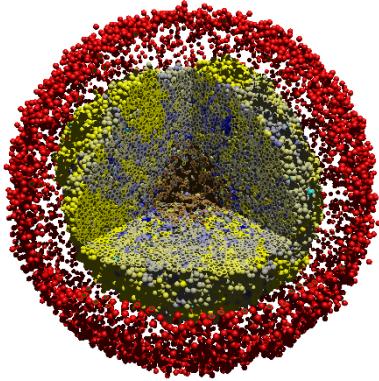
Main session times: Monday-Friday 11am-6pm (US Eastern)
hosted virtually at Indiana University Bloomington

PhysiCell is an open source, agent-based simulation framework for simulating complex multicellular systems. It simulates the chemical environment (diffusion of substrates and signaling factors), individual cell behaviors, and cell-cell interactions. It can be tailored to a broad variety of problems in cancer, infectious diseases, developmental biology, immunology, micro-ecosystems, and more.

Learn more at PhysiCell.org and DOI: [10.1371/journal.pcbi.1005991](https://doi.org/10.1371/journal.pcbi.1005991)

This NCI-funded workshop and hackathon will award a \$1500 honorarium for up to 30 participants in consideration for their participation and to defray personal costs. Applicants should have prior experience in C++ or Python, with an interest in multicellular modeling.

See PhysiCell.org/ws2021 for updates and the full agenda, or follow [@PhysiCell](#) on Twitter.



What you'll learn

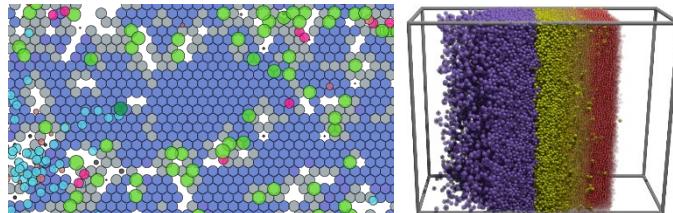
- Build multiscale agent-based multicellular simulations in PhysiCell
- Integrate SBML network models in PhysiCell agents
- Share models online on nanoHUB

What you'll do

- Attend morning sessions to learn PhysiCell
- Form a team in afternoon hackathons to build models and tools
- Join and help drive the PhysiCell community as future leaders

Benefits and Prizes for Funded Participants!

- \$1500 honorarium (up to 30 funded participants)
- PhysiCell swag mailed to your home
- Prizes for the best model and best tool



Apply today! • <http://PhysiCell.org/ws2021>

- **Training sessions:** Training sessions will be recorded and shared / streamed publicly.
- **Exclusive events:** Accepted participants can access exclusive events including "office hours" for setup, socials, and the hackathon. Apply by May 31, 2021 for full consideration.

Additional workshops to consider:

- July 18-24: Network Modeling Workshop (organized by Herbert Sauro)
- Aug. 1-8: CompuCell3D Workshop and Hackathon (organized by James Glazier)

[[link](#)]

[[link](#)]

We believe that science is enhanced by a variety of perspectives, and our goal is to create an inclusive, respectful workshop environment that invites participation from people of all races, ethnicities, genders, ages, abilities, religions, and sexual orientation. We're actively seeking to increase the diversity of our attendees and the community we serve.