

# 27th Annual CCB Workshop



VCell

March 16-20<sup>th</sup>, 2026

Please note this is the online format.



Develop spatial and non-spatial models using deterministic, stochastic, agent-and rule-based approaches using VCell (<https://vcell.org>), COPASI (<https://copasi.org>), and Spring SalaD (<https://vcell.org/ssalad>) software. Please check our websites and YouTube channel for extensive tutorials and examples of models.

MON 16	TUE 17	WED 18	THU 19	FRI 20
Intro to VCell 11am – 12pm	Modeling Topics 11am – 12pm	Modeling Topics 11am – 12pm	Modeling Topics 11am – 1pm	Individual Projects 11am – 1pm
Research Talk 12 – 1pm	Research Talk 12 – 1pm	Research Talk 12 – 1pm		
Intro to COPASI 1 – 2pm	Individual Projects 1 – 3pm	Individual Projects 1 – 3pm	Individual Projects 1 – 3pm	Feedback and final presentations 1 – 3pm
Projects presented 2 – 3pm				

EST.  
All times are

Sessions **in blue** are open to all, while sessions **in purple** are designed for coaching of participants working on individual modeling projects. Please register at <https://forms.gle/nVfmSewaftrtJ1fmS9> Send a project description to [blinov@uchc.edu](mailto:blinov@uchc.edu) to participate in **Individual Projects** sessions. It will allow us to determine if our tools are suitable for your project.

## Modeling topics include but not limited to:

- Spatial modeling
- Using ImageJ in spatial modeling
- Parameter Estimation
- Rule-based modeling with BioNetGen & NFsim
- Langevin simulations with SpringSaLaD
- Stochasticity & Discontinuity
- Scripting
- Common modeling pitfalls
- Spatial stochastic modeling with SmolDyn

## Several research talks will be given. Previous speakers

**include** Margaret Johnson (John Hopkins U), Padmini Rangamani (USD), Jason Haugh (UNC), Pablo Iglesias (Johns Hopkins U), Ursula Kummer (U Heidelberg), Melanie Stefan (U Edinburgh), Aurélie Carlier (Maastricht U).