26th Annual
CCB Workshop

February 24 - 28, 2025
Please note this is the online format.

COPASI **VCell**

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 24	TUE 25	WED 26	THU 27	28
Intro to VCell 11am – 12pm	Modeling topics 11am – 12pm	Modeling topics 11am – 12pm	Modeling topics 11am – 12pm	Individual Projects 11am – 1pm
Research Talk 12 – 1pm	Research Talk 12 – 1pm	Research Talk 12 – 1pm	Research Talk 12 – 1pm	
Intro to COPASI 1 – 2pm	Individual Projects 1 – 3pm	Project updates, 1pm	Individual Projects 1 – 3pm	Feedback session, 1pm
Projects presented 2 – 3pm		Individual Projects 1:30 – 3pm		Final presentations 1:30 – 3pm

All times are EST.

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/n66BUsHDYQNBGSvG6 Send a project description to 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

Research talks are given by:

Aniruddha Chattaraj, Harvard U

Margaret Johnson, John Hopkins U

Leslie Loew, U of Connecticut School of Medicine

Pedro Mendes, U of Connecticut School of Medicine

UCONN HEALTH

A separate in-person workshop is being planned for summer, 2025, in Farmington, CT, more details to follow.