Annual Workshop on Computational Cell Biology

May, 23-25 2022

R. D. Berlin Center for Cell Analysis and Modeling

University of Connecticut School of Medicine

Date	Time (EDT)	Description	Preparation	Presenter
Monday May 23	10:00	Welcome, Overview and Organization		Ann Cowan
	10:15	Basics of Reaction Kinetics and Diffusion	R-D YouTube	Les Loew
	10:45	Virtual Cell (VCell) Overview & Discussion	Vcell YouTube	Ann Cowan
	11:20	COPASI Overview & Discussion	COPASI Youtube	Pedro Mendes
	12:00	Plenary Talk: Padmini Rangamani "How Virtual Cell helped us decode mechanotransduction of YAP/TAZ"		Padmini Rangamani
	12:45	Discussion and questions on advanced modeling approaches: Stochastic, Spatial, Rule-based/Network-free	Watch appropriate videos	Moderator: Ann Cowan
	14:00	Project Track		
	18:00	Adjourn		
Tuesday May 24	9:00	Project Track		
	10:00	Plenary Talk: Aurélie Carlier "Computational modeling of kidney function: from the bench to the bed side"		Aurélie Carlier
	10:45	SpringSaLaD Overview and Discussion	SpringSaLaD YouTube	Aniruddha Chattaraj
	11:15	Parameter Estimation	Par. Est. YouTube	Pedro Mendes, Stefan Hoops
	11:45	Modeling Resources		Michael Blinov
	12:00	Project Track		
	15:30	Project Symposium 1		4 Projects
	16:30	Project Track		
	18:00	Adjourn		
Wednesday May 25	9:00	Project Track		
	10:00	Project Symposium 2		4 Projects
	11:00	Plenary Talk: Melanie Stefan "It's not what you think - using models to uncover counter-intuitive behaviours of biological systems"		Melanie Stefan
	11:45	Advanced Topics Discussion: Discontinuities and Scripting	Watch appropriate videos	Moderator: Ion Moraru
	12:30	Open Forum: Suggestions, Questions		All
	13:00	Project Track		
	15:00	Project Symposium 3		4 Projects
	16:00	Project Symposium 4		4 Projects
	17:00	Workshop Ends		