

Mathematics and Biology: 2nd Young Investigators International Workshop

Conference room of J.-L. Lions Lab, UPMC, 3rd floor, corridor 15-16, room 309

Thursday, 3rd April 2014		
09:00		Coffee Break
09:30	Kevin Flores	A Mathematical Model to Quantify the Effect of Anti-retroviral Treatment During Long-term HIV Infection
09:55	Carola Kruse	Investigation of a Nucleated-Polymerization Model applied to Polyglutamine Aggregation
10:20	Paul Van Liederkeke	Modeling Mechanics of Cells and Tissues
10:45		Break
11:10	Katie Link	Modeling Dynamics of the Immune Response of Renal Transplant Recipients
11:35	Géraldine Cellière	Integrative Modelling and Experimental Validation of Ammonia Detoxification after Drug Induced Liver Damage
12:00		Lunch
14:00	Kaska Adoteye	Modeling the Population Growth of Daphnia Magna
14:25	Rebecca Chisholm	Modelling the Evolution of a Reversible Drug-tolerant Phenotype in a Cancer Cell Population, Mediated by Stochastic and Drug-induced Epimutations
14:50	Tommaso Lorenzi	Intermediate and Long-term Dynamics of Structured Cell Populations
15:15		Coffee Break
15:40	Sarah Eugène	Stochastic Modelling of Protein Polymerization
16:05	Jared Catenacci	Estimation Of Distributed Parameters Using Reflectivity
16:30	Sanjay Pant	Parameter Estimation for Patient-specific Multi-scale CFD Modelling of the Cardiovascular System

Friday, 4th April 2014		
09:00		Coffee Break
09:30	Dustin Kapraun	Calibration of Cell Proliferation Models Using CFSE-Based Assays
09:55	Ibrahim Cheddadi	Continuum Mechanics Models for Epithelial Gap Closure
10:20	Keri Rehm	Multiscale Modeling of Plant Growth
10:45	François Berteaux	Modeling the Dynamics of Cell-to-cell Variability in Signal Transduction Pathways: Application to TRAIL-induced Apoptosis
11:10		Break
11:35	Stéphanie Prigent	Protein Aggregation : Example of Prion Polymerization
12:00	Wafaâ Haffaf	Discrete Modelling of Protein Aggregation in Neurodegenerative Diseases
12:25	Aurora Armiento	Inverse Problem and Data Assimilation Methods for Protein Polymerization
12:50		End of Workshop