

## Mathematics and Biology: 2<sup>nd</sup> Young Investigators International Workshop

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

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

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