

Programmation des exposés du GDR Metice (Session Paris 2013)

Les exposés auront lieu dans la salle de conseil du MAP5.

Lundi 17 juin

Matin (Salle du conseil)

- 9h–9h30 / **Accueil**
- 9h30–10h Mark Potse (INRIA Carmen), *Weirdos from another planet!*.
- 10h–10h30 Damiano Lombardi (INRIA Reo), *Reduced-order modeling and inverse problems on systemic vascular networks*.
- 10h30–11h Dominique Chapelle (INRIA MACS), *Direct and inverse biomechanical modeling of the heart*.
- 11h–11h30 **Pause**
- 11h30–12h00 Olaf Dössel (KIT, Karlsruhe), *Modeling and Simulation of the Human Atria*.
- 12h00–12h30 Laurent Navoret (IRMA, Univ. Strasbourg), *Mathematical modeling of leukocytes adhesion mediated by ligands in shear flow*.

Après-midi (Amphi Fourier)

- 13h45–14h15 Gaël Raoul (CNRS, CEFÉ, Univ. Montpellier), *Modeling the effect of global warming on species' range*.
- 14h15–14h45 Jérôme Coville (INRA, Avignon), *Convergence to the equilibrium in mutation selection model*.
- 14h45–15h15 Marie Postel (LLJL, Univ. Paris VI), *Multiscale modeling and simulation of the follicular selection*.
- 15h15–15h45 **Pause**
- 15h45–16h15 Marcela Szopos (IRMA, Univ. Strasbourg), *Modeling and simulation of blood flow in the cerebral venous system*.
- 16h15–16h45 Olivier Pantz (CMAP, École Polytechnique), *Axonal bipolar electrical stimulation : A homogenized modeling*.
- 16h45–17h15 Benjamin Mauroy (CNRS, LAJD, Univ. Nice), *Lung's morphogenesis*.
- 18h **Cocktail de bienvenue**.

Mardi 18 juin

Matin (Salle du conseil)

- 9h–9h30 Benjamin Ribba (INRIA Numed)
- 9h30–10h Florence Hubert (LATP, Univ. Aix-Marseille), *Modelisation de la croissance metastatique d'un cancer et des traitements anti-cancereux*.
- 10h–10h30 Thierry Colin (IMB, Institut Polytechnique Bordeaux)
- 10h30–11h00 **Pause**
- 11h00–11h30 Benoit Perthame (LLJL, Univ. Paris VI)
- 11h30–12h00 Hassan Fathallah-Shaykh (Univ. Alabama at Birmingham, USA), *Mathematical Model of GBM: Insights Into The Shortcomings of Anti-Angiogenic Therapy*.
- 12h00–12h30 Dirk Drasdo (INRIA BANG), *Towards quantitative modeling of tumor growth and regeneration processes on the histological scale*.

Après-midi (Salle du conseil)

- 13h45–14h15 Michael Leguebe (IMB, Univ. Bordeaux 1), *Modeling both conducting and permeable states of cell membrane submitted to high voltage pulses*.
- 14h15–14h45 Samuel Bernard (CNRS, ICJ, Univ. Lyon), *Multiscale modelling of hematopoiesis*.
- 14h45–15h15 Vincent Calvez (CNRS, UMPA, ENS Lyon), *Kinetic models for bacterial chemotaxis*.
- 15h15–15h45 **Pause**
- 15h45–16h15 Takeshi Suzuki (Univ. Osaka, Japon)
- 16h15–16h45 Marc Lavielle (INRIA Popix), *Population pharmacometrics: models, methods and tools*.
- 16h45–17h15 Julie Joie (INRIA MC2), *Modelling of the migration and of the orientation of endothelial cells on micropatterned polymers*.

Mercredi 19 juin

Matin (Salle du conseil)

- 9h–9h30 Joan Alexis Glaunès (MAP5, Univ. Paris V), *Mathematical tools for modeling the shape variability of the brain*.
- 9h30–10h David Sarrut (CNRS, Creatis, INSA Lyon)
- 10h–10h30 Bertrand Maury (Laboratoire de Mathématiques, Univ. Paris Sud), *Notion of resistance in the ventilation process*.
- 10h30–11h **Pause**
- 11h–11h30 Hervé Delingette (INRIA Asclepios), *Quantification and analysis of brain tumor images*.
- 11h30–12h00 Céline Grandmont (INRIA REO)
- 12h00–12h30 Sylvain Miraux (CNRS, Résonance Magnétique des Systèmes Biologiques, Univ. Bordeaux Segalen), *Magnetic Resonance Angiography and Time-resolved MRA in mice models*.

Après-midi (Salle du conseil)

- 13h45–14h15 Laurent Dumas (LMV, Univ. Versaille St Quentin), *Modélisation de la surface cornéenne et application en chirurgie réfractive*.
- 14h15–14h45 Irène Vignon-Clémentel (INRIA REO), *What air and blood flow simulations have in common: parameterization from data and multiscale numerical challenges*.
- 14h45–15h15 Amandine Veber (CNRS, CMAP, École Polytechnique), *The effects of a weak selection pressure in a spatially structured population*.
- 15h15–15h45 **Pause**
- 15h45–16h15 Pierre Gabriel (LMV, Univ. Versailles-Saint Quentin), *Size-structured equations for protein aggregation*.
- 16h15–16h45 Emeric Bouin (UMPA, ENS Lyon), *How can cane toads become kangaroos ?*
- 16h45–17h15 Nicolas Muller (MAP5, Univ. Paris Descartes), *Model for cell polarisation during yeast mating*.