



PROGRAM

Thursday June 6, afternoon session

- 14.00-14.30 **Conference opening**
- 14.30-15.00 Michel Destrade, *Influence of Initial Residual Stress on Growth and Pattern Creation*
- 15.00-15.30 Valentina Balbi, *The mechanics of a “twisted” brain*
- 15.30-16.00 Ivan Colorado-Cervantes, *Evaluation of principal strain-lines in the left ventricle: a computational model*
- 16.00-16.30 Coffee break
- 16.30-17.00 Amabile Tatone, *Porosity networks and species diffusion*
- 17.00-17.30 Raimondo Penta, *Asymptotic homogenization for multiscale composites. Theoretical issues and applications to aged bone*
- 17.30-18.00 Christian Cherubini, *Thermo-Electro-Mechanical mathematical modeling of Cardiac Tissue*

Friday June 7, morning session

- 09.30-10.00 Giuseppe Saccomandi, *Nonlinear elasticity: a disputatio*
- 10.00-10.30 Giulia Bevilacqua, *Geometry and mechanics in the embryo at the 8-cell stage*
- 10.30-11.00 Davide Riccobelli, *Role of tissue surface tension in the morphogenesis of brain organoids*
- 11.00-11.30 Coffee break
- 11.30-12.00 Oliver Röhrle, *Three-Dimensional Continuum-Mechanical Modelling of the Musculoskeletal System*
- 12.00-12.30 Chiara Giverso, *A mechanical perspective on cell motility and chemotaxis*
- 12.30-13.00 Daniele Peri, *Numerical Optimization of Plasmid DNA Delivery Combined with Hyaluronidase Injection for Electroporation Protocol*

Lunch

Friday June 7, afternoon session

- 14.30-15.00 Adelia Sequeira, *The Significant Role of Hemodynamics in the Progress of Cerebral Aneurysm Disease*
- 15.00-15.30 Luciano Teresi, *Shape formation in chiral protein fibrils*
- 15.30-16.00 Licia Romagnoli, *Nonreflecting boundary conditions for a CSF model of the fourth ventricle - spinal SAS dynamics*
- 16.00-16.40 Salvatore di Stefano, Ariel Ramirez, *Two manifestations of the BKL decomposition: growth and multiscale remodelling*
- 20.00-23.00 **Social Dinner**

Saturday June 8, morning session

- 09.00-09.30 Antonio De Simone, *Morphing and shape control in the mechano-biology of unicellular swimmers*
- 09.30-10.00 Giuseppe Zurlo, *Incompatible surface growth*
- 10.00-10.30 Marta Zoppello, *A model for magnetic microrobots for drug delivery*
- 10.30-11.00 Coffee break
- 11.00-11.30 Davide Ambrosi, *The mechanics of cell migration*
- 11.30-12.00 Pasquale Ciarletta, *Diffuse interface tumour modelling for personalized neuro-oncology*

Conference closing