

MS02: Mathematical modelling and control for healthcare and biomedical systems Organizers: Gabriella Bretti and Giuseppe Pontrelli**Monday, August 28th**

Time	Speaker	Name of the talk
15:45-16:10	Alberto Maria Bersani	Stochastic differential modeling of oscillatory biological mechanisms: the circadian rhythm model in <i>Drosophila</i>
16:10-16:35	Federico Papa	Alternative approaches in the modelling and control of tumour growth and treatment
16:35-17:00	Annachiara Colombi	Cell motion in response to mechanical stimuli: a single-cell non-local model
17:00-17:25	Micol Amar	Electrical conduction and heat diffusion in composites with imperfect contact conditions
17:25-17:50	Giovanni Montino Pelagi	Personalized computational modeling of myocardial perfusion in coronary artery disease
17:50-18:15	Luca Crugnola	A Computational Aortic Hemodynamics model to study Transcatheter Aortic Valve Degeneration
18:15-18:40	Maria Rosaria Lancia	The role of fractal surfaces in diffusion phenomena
18:40-19:05	Giuseppe Pontrelli	Modelling smart drug delivery with functionally graded materials