

# NEW TRENDS IN BIOMATHEMATICS: APPLICATIONS IN ONCOLOGY AND IMMUNOLOGY

## PROGRAM

Friday 21 June 2024		
08:15	08:45	Registration
08:45	09:00	<b>Opening</b>
09:00	09:40	<b>Luigi Preziosi</b> Modelling cell reorientation under stretch
09:40	10:20	<b>Pasquale Ciarletta</b> Model and data fusion: physics-driven learning in cancer research
10:20	11:00	<b>Filippo Castiglione</b> In silico prediction of Tumor Associated Antigens immunogenicity
11:00	11:30	Coffee Break
11:30	12:10	<b>Raluca Eftimie</b> Modelling and computational approaches to investigate heterogeneous innate immune responses to cancers
12:10	12:50	<b>Francesco Pappalardo</b> Beyond the data: computational modeling as a tool in oncology and immunology
12:50	13:30	<b>Filippo Castiglione</b> A virtual cohort study of SARS-CoV-2 infection and vaccination
13:30	15:00	Lunch Break
15:00	15:20	<b>Carmelo Tuscano</b> Mechanisms of integration between radiotherapy and immunotherapy: from the radiobiological perspective to the patient's bedside
15:20	16:00	<b>Luigi Preziosi</b> Multi-level mathematical models for cell migration in dense fibrous environments
16:00	16:30	Coffee Break
16:30	17:10	<b>Francesco Pappalardo</b> Simulating to predict: computational models in infectious diseases
17:10	17:50	<b>Raluca Eftimie</b> Single scale and multi-scale models of viral infections and anti-viral immune responses: applications to infectious and non-infectious diseases
17:50	18:30	<b>Pasquale Ciarletta</b> T cell therapy against cancer: a predictive diffuse-interface mathematical model informed by pre-clinical studies
18:30		<b>Conclusions</b>