

## Scientific program

**10:00 – 10:15 Welcome coffee**

**10:15 – 11:15 Session 1**

**Simone Pezzuto**

Department of Mathematics, UNITN

*Laboratory of Mathematics for Biology And Medicine at UniTrento*

**Martin Weiser**

Department Modeling and Simulation of Complex Processes, ZIB

*Advanced Computing in Medicine at ZIB - An Overview*

**11:15 – 12:00 Coffee break and networking**

**12:00 – 13:00 Session 2**

**Pizzagalli U. Diego**

Euler Institute, Faculty of Biomedical Sciences, USI

*Trajectory mining in biomedicine, from cells to patients*

**Stefania Marconi**

ProtoLab, Dept. of Civil Engineering and Architecture, UNIPV

Fondazione IRCCS Policlinico San Matteo

*Advanced manufacturing for medicine*

**Amos Colombo,**

EOC

*Data science nell'Ente Ospedaliero Cantonale*

**Luca F. Pavarino,**

Department of Mathematics, UNIPV

*Advanced Computational Medicine at UniPV Math Department*

**13:00 – 14:30 Lunch**

**14:30 – 16:00 Session 3**

**Greta Guarda**

IRB & Faculty of Biomedical Sciences, USI

*Novel mechanisms at the interface between immunity and cancer*

**Chandra Bortolotto,**

Dipartimento Servizi Diagnostici e per Immagini, Fondazione IRCCS Policlinico San Matteo

*Advanced CT and MRI tissue characterization of lung cancer: preliminary results of the ICAM collaborations in Pavia*

**Luciano Cascione,**

Bioinformatics Core Unit, IOR

*The "Majority Illusion" in cancer: how lessons we have learned from social media can help us to identify biomarkers in cancer*

**Sandipan Chattaraj**

Synthetic Physiology Lab, Department of Civil Engineering and Architecture, UNIPV

*Particle dynamics to model biological cells and tissues*

**Raffaella Cabini & Stefania M. R. Rizzo**

Faculty of Informatics, USI & Istituto di imaging della svizzera italiana, EOC

*CompositIA, automated quantification of body composition scores from toraco-abdominal CT scans*

**Alessia Gerbasi**

UNIPV & IRCCS C. Mondino

*Intracerebral Hemorrhage Segmentation: leveraging Foundation Models for specific clinical needs*

**16:00 – 16:45 Coffee break and networking**

**16:45 – 17:15 Thesis award**