



mentor

SUMMER SCHOOL METABOLIC CONTROL OF CELL GROWTH

On-site only,
pre-register on
mentor-
program.eu

Tuesday, May 5 - Metabolism

14:30 - **The role of lysosomal signaling in tumorigenesis**

15:30
Andrea Ballabio, TIGEM, IT

15:30 - **PI3K-mTOR signaling and the metabolic control of cell growth**

16:30
Brendan Manning, Harvard Medical School, US

16:30 - **Coffee break**
17:00

17:00 - **Selective modulation of mTORC1 signaling at the lysosome**

18:00
Gennaro Napolitano, TIGEM, IT

Wednesday, May 6 - Functional genomics & proteomics

9:30 - **Metabolic Control of TORC1**

10:45
Claudio de Virgilio, University of Fribourg, CH

10:45 - **Metabolic Mechanisms of Lung Cancer Progression**

12:00
Thales Papagiannakopoulos, NYU Grossman School of
Medicine, US

12:00 - **Brain Mosaicism: When mTOR Mutations Drive Malformation and
Epilepsy**

13:15
Sara Baldassari, Paris Brain Institute, Fr

13:15 - **Lunch break**
14:30

14:30 - **Cellular signal transduction – a proteomic view**

15:30
Joern Dengjel, University of Fribourg, CH

15:30 - **Structural and Functional Basis for Nutrient Sensing and Signaling in
Metabolic Regulation**

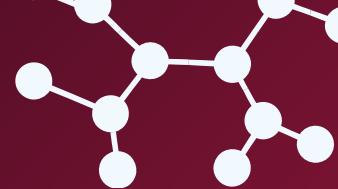
16:30
Roberto Zoncu, UC Berkeley, US

16:30 - **Coffee break**
17:00

17:00 - **Analysis of Post-Translational Modifications for Basic and Translational
Research using PTMScan® Antibodies**

18:00
Alissa Nelson, Cell Signaling Technology, US





Thursday, May 7 - Practical courses

Group 1 - High Content Screening Experience

Diego Luis Medina, TIGEM, IT

Group 2 - Advanced Microscopy to Analyze Organelle Structure, Function, and Dynamics

Roman Polischuk, TIGEM, IT

09:00 -
11:00

Group 3 - The Mass Spectrometry practical session

Paolo Grumati, TIGEM, IT and Alissa Nelson, Cell Signalling Technology, US

11:00
12:30

Lunch break

12:30 -
18:00

Social Activity - Pompei

Friday, May 8 - Statistics, AI & databases

09:30 -
10:30

Integrative genomics

Davide Cacchiarelli, TIGEM, IT

10:30 -
11:30

The Dark Knight: Hidden Statistical Traps in Biological Research

Eugenio Del Prete TIGEM, IT

11:30
12:30

AI-driven protein engineering

Andrea Pasquadibisceglie, TIGEM, IT

12:30 -
14:00

Lunch break

14:00 -
15:00

Grant writing/outreach/public engagement

Graciana Diez-Roux, TIGEM, IT

15:00 -
16:00

PhD Mentoring

Mario Pende and Gwen André

Registration fee : 80 EUR



TIGEM - Via Campi Flegrei, 34, 80078 Pozzuoli NA, Italy

