



School of Medicine and Surgery
Department of Clinical and Biological Sciences
University of Torino, Italy



"San Luigi Gonzaga" Didactic Center
(green classroom)
Regione Gonzole 10, Orbassano (TO)

Multidisciplinary Elective Didactic Activity

Cerebrovascular malformations: pathogenic mechanisms and therapeutic strategies

27/04/2022

09:00-10:00 Marco Fontanella (Neurosurgery) (Department of Surgical Specialties, University of Brescia, Italy)

Clinical and neurosurgical features of Cerebral Cavernous Malformation (CCM) disease

10:00-13:00 Saverio Francesco Retta (Applied Biology) (Department of Clinical and Biological Sciences, University of Torino, Italy)

From genes to targeted therapies: the long climb to the cure of Cerebral Cavernous Malformation (CCM) disease

14:00-15:00 Angela Glading (Cell Biology) (Department of Pharmacology and Physiology, University of Rochester Medical Center, Rochester, NY, USA)

KRIT1/CCM1: A Master Regulator of Cerebrovascular Quiescence

In-person seminars and live webinars

organized by

Prof. Saverio Francesco Retta, Dr. Andrea Perrelli, Dr. Chiara Ferraris

For information and free registration,
please contact: andrea.perrelli@unito.it



CCM ITALIA
La community Italiana per Le
Malformazioni Cavernose Cerebrali
Acting locally. cooperating globally



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09:00-11:00 Giovanni Battista Ferrero (Clinical Genetics) (Department of Clinical and Biological Sciences, University of Torino)

**The potential of Next-Generation Sequencing (NGS) technology:
comprehensive whole-genome profiling to identify genetic variants**

11:00-12:00 Souvik Kar (Molecular Biology) (International Neuroscience Institute, Hannover, Germany)

**Non-coding RNA repertoires in Cerebral Cavernous Malformations:
identification and role in disease pathogenesis**

13:00-14:00 Juan Zalvide (Developmental Biology) (Department of Physiology, Universidade de Santiago de Compostela, Spain)

**GCKIII (Germinal Center Kinase III) Kinases and the Inhibitory Mechanisms
of Intracerebral Cavernoma Development**

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09:00-10:00 Raffaella Mastrocola (General Pathology) (Department of Clinical and Biological Sciences, University of Torino, Italy)

Metabolic impact of *KRIT1/CCM1* mutations linked to Cerebral Cavernous Malformations: a possible role for advanced glycation end-products (AGEs)?

10:00-11:00 Eva Faurobert (Cellular Mechanotransduction) (Institute for Advanced Biosciences, University Grenoble Alpes, Grenoble, France)

Role of mechanotransduction in the pathogenesis of Cerebral Cavernous Malformation (CCM) disease: molecular and cellular aspects

11:00-12:00 Chiara Ferraris (Pharmaceutical Technology) (Department of Clinical and Biological Sciences, University of Torino, Italy)

Innovative drug delivery technologies to overcome the blood-brain barrier

15:00-16:00 Andrea Perrelli (Applied Biology) (Department of Pharmacology and Physiology, University of Rochester, Rochester, NY, USA)

Towards precision nanomedicine for CCM disease

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