



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



Elective Didactic Activity (Free Webinars)

# ***Cerebrovascular malformations: pathogenic mechanisms and therapeutic strategies***

**27/04/2021**

**9:30-10:00 Saverio Francesco Retta** (*Applied Biology*) (*Department of Clinical and Biological Sciences, University of Torino, Italy*)

Introduction to the webinars

**10:00-11:00 Chris Sobey** (*Vascular Biology*) (*Centre for Cardiovascular Biology, La Trobe University, Melbourne, Australia*)

Targeting inflammation-induced injury in stroke

**11:00-12:00 Marco Fontanella** (*Neurosurgery*) (*Department of Surgical Specialties, University of Brescia, Italy*)

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

**17:00-18:00 Angela Glading** (*Cell Biology*) (*Department of Pharmacology and Physiology, University of Rochester Medical Center, Rochester, NY, USA*)

KRIT1/CCM1: A master regulator of endothelial quiescence

Live webinars organized by Prof. Saverio Francesco Retta and Dr. Andrea Perrelli

For information and registration, please contact: [andrea.perrelli@unito.it](mailto:andrea.perrelli@unito.it)



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La community Italiana per Le  
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Acting Locally. cooperating globally



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**10:00-11:00 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

**11:00-12:00 Raffaella Mastrocola** (General Pathology) (Department of Clinical and Biological Sciences, University of Torino, Italy)

Metabolic impact of KRIT1/CCM1 mutation predisposing to Cerebral Cavernous Malformations: a possible role for Advanced Glycation End-products?

**16:00-17:00 Andrea Perrelli** (Applied Biology) (Department of Clinical and Biological Sciences, University of Torino, Italy)

Towards precision nanomedicine for Cerebral Cavernous Malformation (CCM) disease

**17:00-18:00 Jun Zhang** (Molecular Medicine) (Department of Molecular and Translational Medicine, Texas Tech University, El Paso, TX, USA)

A new therapeutic strategy for hemorrhagic Cerebral Cavernous Malformations (CCMs)

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**29/04/2021**

**10:00-11:00 Souvik Kar** (*Molecular Biology*) (***International Neuroscience Institute, Hannover, Germany***)

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

**11:00-12:00 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 and whole-exome profiling to identify genetic variants

**12:00-13:00 Valerio Benedetti** (*Applied Biology*) (***Department of Clinical and Biological Sciences, University of Torino***)

Next-Generation Sequencing (NGS) Strategies for Genetic Testing of Cerebral Cavernous Malformation (CCM) Disease

**16:00-17:00 Eva Faurobert** (*Cellular Biology*) (***French National Centre for Scientific Research, Paris, France***)

Role of mechanotransduction in the pathogenesis of Cerebral Cavernous Malformations: molecular and cellular aspects

**21:00-22:00 Kelly Flemming** (*Neurology*) (***Mayo Clinic, Rochester, MN, USA***)

Clinical Presentation and Management of Cerebral Cavernous Malformations

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