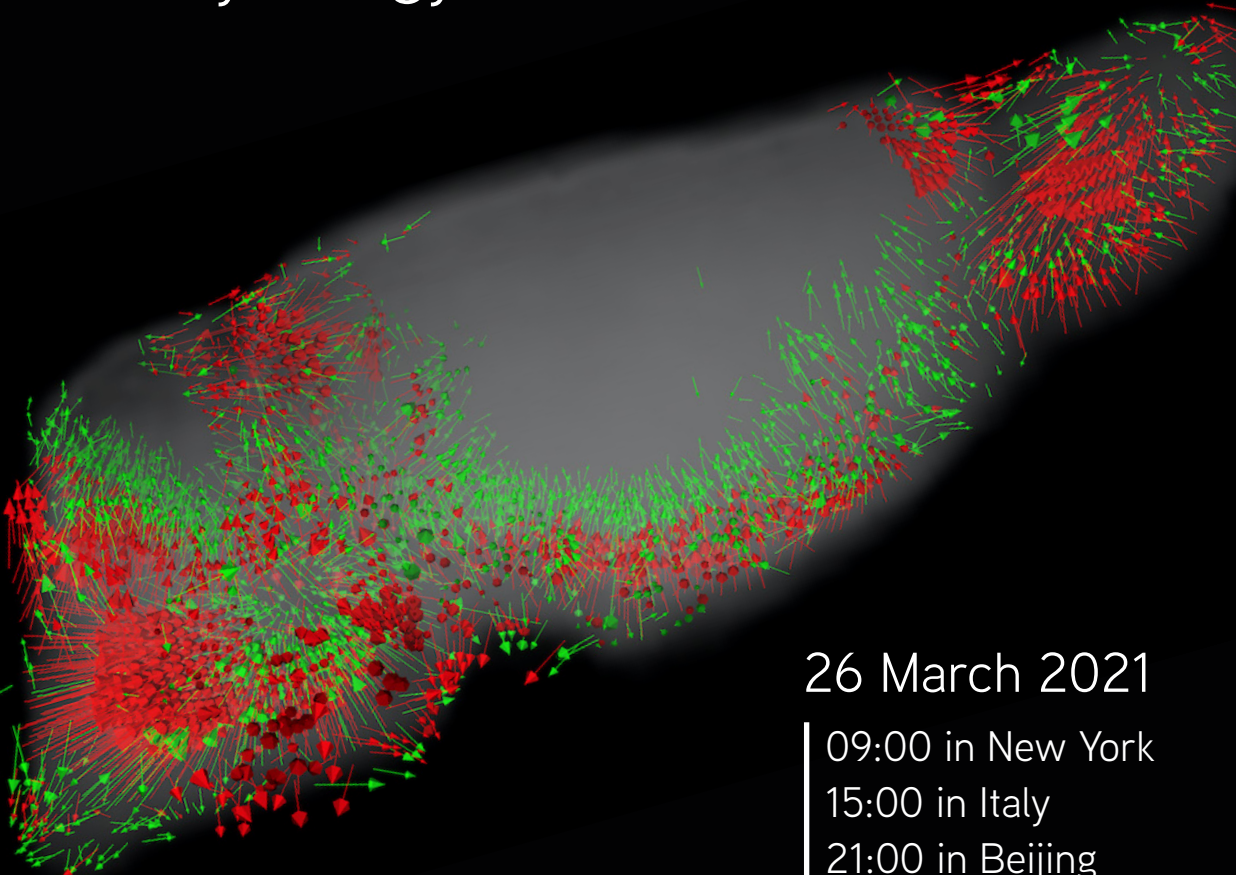


WEBINAR

NEUROFLUIDS

Physiology, methods and disease



26 March 2021

09:00 in New York

15:00 in Italy

21:00 in Beijing

22:00 in Japan

Organizers:

Prof. E F Toro and Dr. Lucas Müller, University of Trento, Italy

PROGRAMME

09:00-09:05

INTRODUCTION

Prof. Yulin Ge (president of ISNVD) and Prof. E F Toro (organizer)

Chairperson: Dr. Meiyun Wang

09:05-09:20

MRI methods to study Glymphatic-Lymphatic fluid flow dynamics.

Prof. Helene Benveniste. Yale Medical School, USA.

09:20-09:35

Towards the visualization of Neurofluids dynamics by MR using IV-GBCA.

Prof. Shinji Naganawa. Nagoya University Graduate School of Medicine. Japan.

09:35-09:50

MICRO Imaging as a Means to Study the Brain's Microvasculature in Neurodegenerative Diseases.

Prof. Mark Haacke. Department of Radiology, Wayne State University, Detroit, Michigan, USA.

09:50-10:00

Questions and discussion.

Discussion panellists: Prof. Meiyun Wang and Prof. Allen Tannenbaum.

Chairperson: Prof. Paolo Zamboni

10:00-10:15

Experimental and theoretical study of solute dispersion in the cerebrospinal fluid.

Prof. Andreas Linninger. Chemical Engineering and Computer Science Research Faculty, Department of Neurosurgery, University of Illinois at Chicago, Chicago, USA.

10:15-10:30

Blood composition and physical properties in perfusion and in Covid-19.

Prof. Hugo ten Cate and Prof. Henri M.H. Spronk. Cardiovascular Research Institute Maastricht. Director, Thrombosis Expertise Center, Maastricht University Medical Center (MUMC+), Maastricht. The Netherlands.

10:30-10:45

Mathematical modelling of craniospinal fluid dynamics. Progress and challenges.

Prof. Eleuterio Toro. Applied Mathematics Laboratory, DICAM, University of Trento, Italy.

10:45-11:00

Questions and discussion.

Discussion panellists: Prof. Paolo Zamboni, Prof. Pasquale De Bonis and Dr Lucas Müller.

END

This webinar is sponsored by the International Society for Neurovascular Disease (ISNVD) and is devoted to NEUROFLUIDS, that is all major extracellular fluid compartments of the central nervous system seen in a holistic and interactive manner. The focus will be on physiology, methods of study and associated diseases.

For further information please contact

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SPEAKERS, CHAIRS AND PANELISTS



Professor Helene Benveniste
Professor of Anesthesiology
Yale Medical School, USA



Professor Shinji Naganawa, M.D., Ph.D.
Professor and Chair, Department of
Radiology, Nagoya University Graduate
School of Medicine, Japan



Professor Mark Haacke.
Department of Radiology, Wayne
State University, USA



Professor Andreas Linninger
Chemical Engineering and Computer
Science Research Faculty, Department
of Neurosurgery, University of Illinois at
Chicago, USA



Professor Hugo ten Cate
Director, Thrombosis Expertise Center,
Maastricht University Medical Center,
Netherlands



Professor Henri M.H. Spronk
Associate Professor Biochemistry,
Maastricht University, Netherlands



Professor Eleuterio Toro
Applied Mathematics Laboratory,
DICAM, University of Trento, Italy



Professor Meiyun Wang, MD, PhD
Neuroradiologist, Professor and Chair, the
Medical Imaging Center of Henan Province,
Henan Provincial People's Hospital, China



Professor Paolo Zamboni
Chair of Vascular Diseases Center and
Program Director School of Vascular
Surgery, University of Ferrara, Italy.



Professor Pasquale De Bonis
Full Professor of Neurosurgery and Head
of the Neurosurgery Residency Program
since 2017 at University of Ferrara, Italy.



Professor Allen Tannenbaum
Distinguished Professor of Computer
Science and Applied Mathematics at
Stony Brook University, USA



Dr Lucas Muller
Assistant Professor of Mathematics.
Department of Mathematics,
University of Trento, Italy.