



UNIVERSITY OF THESSALY SCHOOL OF HEALTH SCIENCES  
DEPARTMENT of NEUROSURGERY

organizes

# LINC III

## INTERNATIONAL NEUROVASCULAR COURSE

### Cavernous Malformations: A holistic approach



FINAL PROGRAM

# MARCH 17&18 2023

Royal Olympic Hotel | Athens, Greece

[www.linc.edu.gr](http://www.linc.edu.gr)

COURSE SECRETARIAT:

CONCO MEETINGS & EVENTS

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INTERNATIONAL PROGRAM APPROVAL



American  
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Neurological  
Surgeons

UNDER THE AUSPICES:



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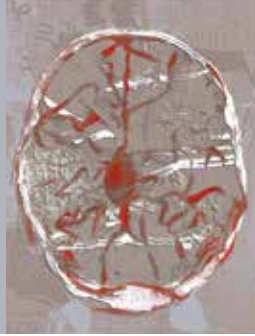
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FRIDAY, 17 MARCH 2023

KALLIRHOE HALL

07:30 - 08:00 Registrations

08:00 - 08:20 Greetings - Welcome Addresses

### 1<sup>st</sup> Morning Session: Natural History/ Diagnostic Approach

Moderators: **E. Boccardi** - **E. Archontakis**

Commentator: **S. Tjoumakaris**

08:20 - 08:30 Clinical presentation of CMs

**A. Tasiou**

08:30 - 08:50 Diagnostic work-up: The role of MRI

**A. Trofimova**

08:50 - 09:10 Natural history of CMs

**B. Karlsson**

09:10 - 09:30 Genetics of cerebral CMs

**S. Tjoumakaris**

09:30 - 09:50 **Debate: Are CMs congenital or acquired Lesions?**

**K. Fountas** vs **B. Karlsson**

09:50 - 10:00 Critical wrap-up

**S. Tjoumakaris**

10:00 - 10:20 **Coffee Break**

### 2<sup>nd</sup> Morning Session: Symptomatic Cerebral CMs

Moderators: **P. Vajkoczy** - **M. Vlychou**

Commentator: **N. Kitchen**

10:20 - 10:40 Treatment of cerebral CMs: Current concepts

**A. Andreou**

10:40 - 11:00 Microsurgical resection of symptomatic supratentorial CMs

**S. Tjoumakaris**

11:00 - 11:20 Microsurgical resection of symptomatic infratentorial CMs

**T. Meling**

11:20 - 11:40 Indications for surgical treatment in deep-seated CMs

**C. Tolias**

11:40 - 12:00 Incidental lesions - Therapeutic decision making

**U. Sure**

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12:00 - 12:10 Critical wrap-up  
**N. Kitchen**

**12:10 - 13:00 Lunch**

### 1<sup>st</sup> Afternoon Session: Microsurgical Techniques

Moderators: **S. Tjoumakaris - A. Tasiou**

Commentator: **P. Vajkoczy**

13:00 - 13:20 **How I do it:** Microsurgical excision of supratentorial CMs  
**C. Tolias**

13:20 - 13:40 **How I do it:** Microsurgical excision of deeply located CMs  
**R. Spetzler**

13:40 - 14:00 **How I do it:** Microsurgical excision of brainstem CMs  
**R. Friedlander**

14:00 - 14:20 **How I do it:** Microsurgical excision of cerebellar CMs  
**P. Vajkoczy**

14:20 - 14:40 **How I do it:** Surgical treatment of CMs in eloquent areas  
**G. Pavesi**

14:40 - 14:50 Critical wrap-up  
**P. Vajkoczy**

**14:50 - 15:00 Coffee Break**

### 2<sup>nd</sup> Afternoon Session: Hot Topics

Moderators: **N. Foroglou - A. Demetriades**

Commentator: **U. Sure**

15:00 - 15:20 Role of stereotactic radiosurgery in the treatment of cerebral CMs  
**B. Karlsson**

15:20 - 15:40 CMs in pregnancy  
**C. Alleyne**

15:40 - 16:00 Spinal Cord CMs  
**A. Andreou**

16:00 - 16:20 Critical wrap-up  
**U. Sure**

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SATURDAY, 18 MARCH 2023

KALLIRHOE HALL

### 1<sup>st</sup> Morning Session: CM Management: Shade Areas

Moderators: **T. Papisilekas** - **L. Rasulic**

Commentator: **C. Tolias**

- 09:00 - 09:20 Familial CMs  
**A. Mitsos**
- 09:20 - 09:40 Characteristic features of de novo CMs  
**N. Kitchen**
- 09:40 - 10:00 Mixed intracranial vascular malformations  
**V. Panagiotopoulos**
- 10:00 - 10:20 Tractography as an adjunct for management of eloquent CMs  
**R. Friedlander**
- 10:20 - 10:40 Surgeon's factors: Training - Learning Curve  
**C. Alleyne**
- 10:40 - 10:50 Critical wrap-up  
**C. Tolias**

**10:50 - 11:00 Coffee Break**

### 2<sup>nd</sup> Morning Session: Videos - How I Do It

Moderators: **N. Kitchen** - **I. Ioannidis**

Commentator: **S. Tjoumakaris**

- 11:00 - 11:20 **How I do it:** Video supratentorial CMs  
**C. Tolias**
- 11:20 - 11:40 **How I do it:** Video cerebellar CMs  
**P. Vajkoczy**
- 11:40 - 12:00 **How I do it:** Video brainstem CMs  
**R. Friedlander**
- 12:00 - 12:20 **How I do it:** Video spinal cord CMs  
**R. Spetzler**
- 12:20 - 12:30 Critical wrap-up  
**S. Tjoumakaris**

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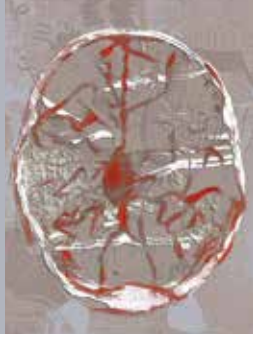
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SATURDAY, 18 MARCH 2023

KALLIRHOE HALL

12:30 - 13:50 **Residents' luncheon - Case discussion**

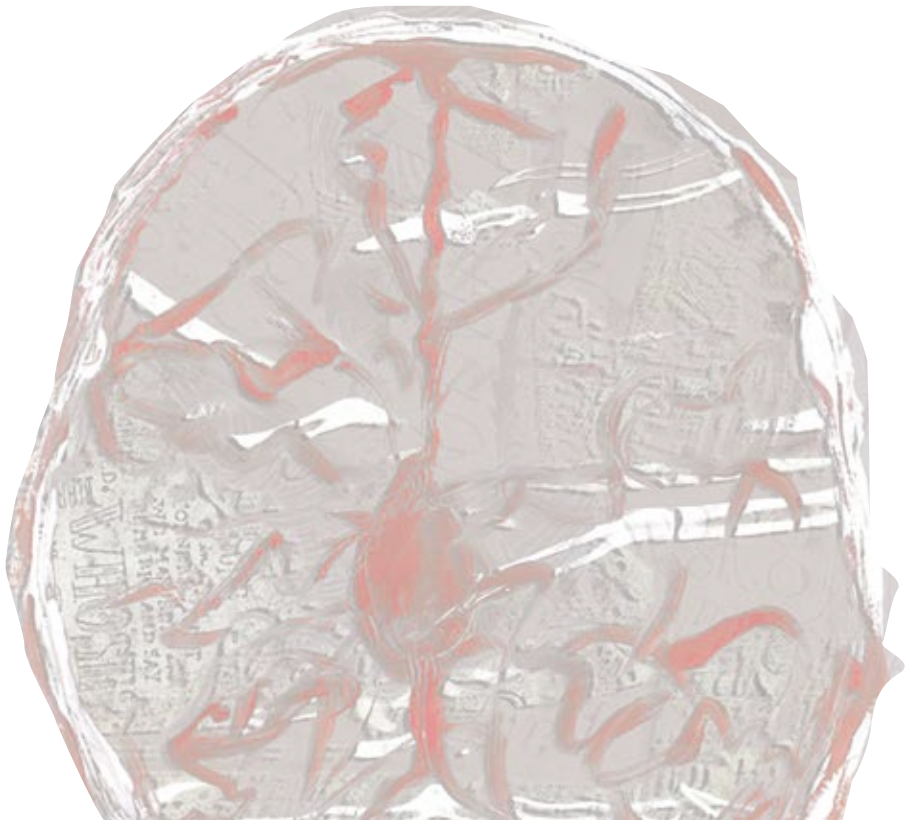
Moderators: **K. Fountas, A. Tasiou, I. Ioannidis**

Panelists: **C. Alleyne, A. Andreou, E. Boccardi, A. Demetriades, R. Friedlander, N. Foroglou, B. Karlsson, N. Kitchen, T. Meling, A. Mitsos, V. Panagiotopoulos, G. Pavesi, R. Spetzler, U. Sure, S. Tjoumakaris, C. Tolias, A. Trofimova, P. Vajkoczy**

13:50 - 14:00 **CARE Trial presentation**

**N. Kitchen**

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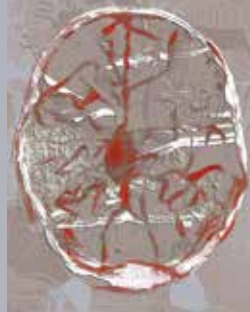
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### SPEAKERS - CHAIRMEN

<b>Cargill H. Alleyne, Jr.</b>	MD, Staff Neurosurgeon, Cerebrovascular Service, Piedmont Augusta, Augusta, GA, USA
<b>Alexandros Andreou</b>	Consultant Neurosurgeon, Director, Department of Neurosurgery and Interventional Neuroradiology, Hygeia Hospital, Athens, Greece
<b>Eftychios Archontakis</b>	Head of Interventional Neuroradiology Department, Korgialeneio-Benakeio Hospital (Red Cross), Athens Greece
<b>Edoardo Boccardi</b>	MD, Neuroradiologist, Milano, Italy
<b>Andreas Demetriades</b>	MB.BChir. (Cantab), M.Phil. (Cantab), FRCSEd(Neuro.Surg), FEBNS, Consultant Neurosurgeon and Spinal Surgeon, Royal Infirmary Edinburgh, Scotland, UK, President EANS (European Association of Neurosurgical Societies)
<b>Nikolaos Foroglou</b>	MD, PhD, Professor of Neurosurgery, School of Medicine, Aristotle University of Thessaloniki, Greece, Chair Department of Neurosurgery, AHEPA University Hospital, Thessaloniki, Greece
<b>Konstantinos N. Fountas</b>	MD, PhD, Professor of Neurosurgery, Head of Department of Neurosurgery, School of Medicine, University of Thessaly, Larissa, Greece
<b>Robert M. Friedlander</b>	MD, MA, Chair Department of Neurological Surgery, Walter Dandy Distinguished Professor of Neurosurgery, Neurology, and Neurobiology, University of Pittsburgh School of Medicine, University of Pittsburgh Medical Center, Co-Director UPMC Neurological Institute
<b>Ioannis Ioannidis</b>	Interventional Neuroradiologist Assistant Professor of Radiology, Medical School, University of Thessaly, Greece
<b>Bengt Karlsson</b>	MD, PhD, Visiting Consultant, National University Hospital, Singapore
<b>Neil Kitchen</b>	Senior Consultant Neurosurgeon, The National Hospital for Neurology and Neurosurgery, London, UK
<b>Torstein R. Meling</b>	MD, DPhil, FEBNS, IFAANS, Chief of Neurosurgery, The National Hospital, Copenhagen, Denmark, Senior Advisor, Besta NeuroSim Center, Department of Neurological Surgery, Istituto Nazionale Neurologico "C.Besta", Milan, Italy, President - Elect EANS
<b>Aristotelis P. Mitsos</b>	MD, MSc, PhD, Consultant Neurosurgeon, Vice Director, Department of Neurosurgery, 401 Athens General Army Hospital, Director, Department of Endovascular Neurosurgery, 401 Athens General Army Hospital, Athens, Greece

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<b>Vasileios Panagiotopoulos</b>	MD, PhD, Associate Professor of Neurosurgery & Endovascular Neurosurgery, University Hospital of Patras, Patra, Greece
<b>Themistoklis I. Papisilekas</b>	MD, MSc(Oxon), PhD, Attending Neurosurgeon, Department of Neurosurgery, Medical School, University of Athens, Greece
<b>Giacomo Pavesi</b>	Professor of Neurosurgery, Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia, Italy
<b>Lukas Rasulic</b>	IFAANS, FCNS, Professor, Faculty of Medicine, University of Belgrade, Clinic for Neurosurgery, University Clinical Center of Serbia, Head, Department of Peripheral Nerve Surgery, Functional Neurosurgery and Pain Management Surgery, Belgrade, Serbia
<b>Robert F. Spetzler</b>	MD, Emeritus Chair, Department of Neurosurgery, Barrow Neurological Institute, Emeritus Chair of Neurosurgery, Phoenix campus, University of Arizona College of Medicine, Phoenix, Arizona USA
<b>Ulrich Sure</b>	MD, Professor and Chairman, Department of Neurosurgery and Spine Surgery, University Hospital Essen, Germany
<b>Anastasia Tasiou</b>	MD, PhD, Attending Neurosurgeon, Department of Neurosurgery, University Hospital of Larissa, Greece
<b>Stavropoula Tjoumakaris</b>	MD, FAANS, FACS, FAHA, Professor of Neurological Surgery and Radiology, Chair, University Faculty Affairs Department of Neurosurgery, Director, Endovascular Surgery & Cerebrovascular Neurosurgery Fellowship, Director, Neurosurgery Clerkship, Thomas Jefferson University Hospital, Sidney Kimmel Medical College, Philadelphia, USA
<b>Christos Tolia</b>	MD, PhD, FRCS(Engl), FRCS(SN), Consultant Neurosurgeon, Kings College Hospital, London, UK, Lead Clinician Neurosurgery, Neurovascular Surgery, Lead South London Neurosurgery Network
<b>Anna Trofimova</b>	MD, PhD, Pediatric Neuroradiologist, Children's Healthcare of Atlanta, Assistant Professor of Radiology and Imaging Sciences, Emory University School of Medicine, Atlanta, GA, USA
<b>Peter Vajkoczy</b>	Professor of Neurosurgery, Director of the Department of Neurosurgery, Charite University Hospital, Berlin, Germany
<b>Marianna Vlychou</b>	Professor of Radiology, School of Medicine, University of Thessaly