



13th Meeting of European Neuro-Ophthalmological Society (EUNOS)

10-13 September, 2017
Budapest, Hungary

PRELIMINARY PROGRAM



Welcome message

Dear fellow neuro-ophthalmologists,

Two years after a very successful 12th EUNOS meeting in 2015 in Ljubljana, the capital city of Slovenia, we are again heading to a beautiful capital of another former eastern European country to present and discuss new developments in the field of Neuro-Ophthalmology.

Budapest in 2017 promises to fulfil your expectations and provide a high-level scientific meeting in an exciting and welcoming venue. We hope to attract numerous participants from all over the world to join us in Budapest and to welcome new colleagues to our community by becoming EUNOS members.

The organization of the meeting is a joint venture of the Local Organizing Committee headed by Dr. Gabriella Szatmary, the Scientific Program Committee and the Education Committee of EUNOS. We are all looking forward to yet another

stimulating meeting that will promote our knowledge in Neuro-Ophthalmology and thus improve the care of patients with neuro-ophthalmic disorders.

See you all in Budapest!

Prof. Klara Landau
President of EUNOS

Welcome message

Dear Colleague,

It is my great pleasure to invite you to participate in the 13th European Neuro-Ophthalmological Society conference. The members of the organizing committee are very proud to be hosting the conference in Budapest, the capital city of Hungary.

Undoubtedly, Budapest is one of the most beautiful cities in the world, and is well known for its stunning views from the banks of the river Danube and its famous Széchenyi Chain Bridge.

The conference will be held at the Danubius Health Spa Resort Hélia, which is located on the East bank of the Danube River, and within short distances are famous attractions, such as the Hungarian Parliament and the Heroes Square.

Our aim is to provide you with the latest information in the field of brain and vision science, with a focus on the application of latest eye and brain imaging tools, in order to address underlying pathophysiology in a wide range of neuro-ophthalmic disorders and their mimics.

The first day of the meeting will be dedicated to Emergency Neuro-Ophthalmology and Practical Tools and Tricks to enhance the differential diagnostic and clinical skills of physicians encountering a neuro-ophthalmic problem. In addition, for the first time in the history of EUNOS, we will have a half-day Research Symposium dedicated to optic nerve disorders.

A wide range of topics will be presented during the meeting, such as neurodegenerative disorders during The Eye and The Brain Symposium, Beyond IHH: High and low CSF pressure syndromes, Vascular Diseases of the Brain and Eye, Neuro-ophthalmic Complications of Neoplastic Diseases, and Unexplained Visual Loss as introduced by interesting case presentations. The last day of the meeting will include a lecture by Prof. Neil Miller on Controversies in Neuro-Ophthalmology. For full list of presenters, please see list of lecturers under "About EUNOS 2017" tab on Home page of congress.

Beside the scientific program and exhibition, there will be a number of exciting social activities to make your stay in Budapest pleasurable and memorable.

We look forward to hosting you in Budapest on September 10, 2017.



Conference Chair,
Gabriella Szatmáry, MD, PhD



**13th MEETING OF EUROPEAN
NEURO-OPHTHALMOLOGICAL
SOCIETY**



SCIENTIFIC PROGRAM COMMITTEE

Fion BREMNER, United Kingdom
Dániel BERECZKI, Hungary
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Gabriella SZATMÁRY, USA
Caroline TILIKETE, France
Balázs VARSÁNYI, Hungary
Konrad WEBER, Switzerland
Patrick YU WAI MAN, United Kingdom

LOCAL ORGANIZING COMMITTEE

Gabriella SZATMÁRY, Hattiesburg, MS, USA
Andrea FACSKÓ, Szeged, Hungary
Márta JANÁKY, Szeged, Hungary

Gábor SOMFAI, Olten, Switzerland / Budapest, Hungary
Judit SOMLAI, Budapest, Hungary
Balázs VARSÁNYI, Pécs, Hungary

GENERAL INFORMATION

WEBSITES FOR FURTHER INFORMATION

www.eunos2017.org

Opening hours of the registration

9 September, Saturday	15:00 - 19:00
10 September, Sunday	06:30 - 18:00
11 September, Monday	07:00 - 18:00
12 September, Tuesday	07:00 - 18:00
13 September, Wednesday	07:00 - 13:30

Opening hours of the exhibition

10 September, Sunday	08:00 - 18:00
11 September, Monday	08:00 - 18:00
12 September, Tuesday	08:00 - 18:00
13 September, Wednesday	08:00 - 13:00

CONTACT

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VENUE

Danubius Health Spa Resort
HELIA CONFERENCE HOTEL
Kárpát str. 62-64
H-1133 Budapest
Hungary



Sunday, September 10, 2017

**8:00-10:00 TEACHING COURSE 1.
EMERGENCY NEURO-OPHTHALMOLOGY**

- 8:00-8:20 **Investigation and Management of Acute Sinus and Sellar Pathology Causing Optic Neuropathy**
Anthony Arnold, USA
- 8:20-8:40 **Current Role of Investigations in Giant Cell Arteritis**
Susan Mollan, United Kingdom
- 8:40-9:00 **Investigation and Management of Acute Optic Neuropathies**
Timothy D. Matthews, United Kingdom
- 9:00-9:20 **Presentation and Investigation of Third Nerve Palsies**
Dániel Bereczki, Hungary
- 9:20-9:40 **Recent Developments in Neurovascular Treatments: an Update for Neuro-Ophthalmologists**
Swarup Chavda, United Kingdom
- 9:40-10:00 *Discussion*

10:00-10:30 *Break*

**10:30-12:35 TEACHING COURSE 2.
INTERACTIVE WORKSHOP: PRACTICAL TOOLS & TRICKS**

- 10:30-10:50 **Oscillopsia: Practical Tips to Examine Patients**
Caroline Tilikete, France
- 10:50-10:55 Q&A
- 10:55-11:15 **Ocular Vestibular Evoked Myogenic Potential and Vestibular Testing**
Konrad Weber, Switzerland
- 11:15-11:20 Q&A
- 11:20-11:40 **Update on Imaging in Neuro-Ophthalmology**
Anthony Arnold, USA
- 11:40-11:45 Q&A
- 11:45-12:05 **Visual Field: When and What Type?**
Fion Bremner, United Kingdom
- 12:05-12:10 Q&A
- 12:10-12:30 **Electrophysiology: When and What?**
Marta Janaky & Agnes Janosi, Hungary
- 12:30-12:35 Q&A

12:35-14:00 *Lunch & POSTER SESSION I.*



**14:00-18:00 RESEARCH SYMPOSIUMS
OPTIC NERVE SYMPOSIUM BY EUNOS RESEARCH COMMITTEE**

**14:00-16:00 RESEARCH SYMPOSIUM 1.
MAGNETIC RESONANCE IMAGING IN MULTIPLE SCLEROSIS (MAGNIMS) &
OPHTHALMIC IMAGING**

- 14:00-14:05 **Opening remarks of Research Symposium**
Susanne Trauzettel- Klosinski, Germany
- 14:05-14:30 **MRI of the Brain: Update by MAGNIMS Research Network**
Jette Frederiksen, Denmark
- 14:30-14:55 **MRI in NMO: Update by MAGNIMS Research Network**
Jaqueline Palace, United Kingdom
- 14:55-15:20 **MRI of the Optic Nerve: Update by MAGNIMS Research Network**
Maria Assunta Rocca, Italy
- 15:20-15:35 **NMOSD: Pre-AQ4 Concept as Illustrated by Cases**
Sámuel Komoly, Hungary
- 15:35-15:55 **Advanced Structural and Functional Imaging in Multiple Sclerosis, Alzheimer's
Disease, and Other Neurodegenerative Diseases**
Delia DeBuc, USA
- 15:55-16:00 *Discussion*

16:00-16:30 Break

**16:30-18:00 RESEARCH SYMPOSIUM 2.
EUROPEAN RESEARCH INITIATIVES - PRESENT AND FUTURE**

- 16:30-16:50 **European Grant Application Initiative**
Axel Petzold, United Kingdom
- 16:50-17:15 **New Visual Tests in Optic Neuritis**
Gorm Pihl Jensen, Denmark
- 17:15-17:45 **Research Initiatives for Inherited Optic Neuropathies**
Patrick Yu-Wai-Man, United Kingdom and Patient Representatives
- 17:45-18:00 *Discussion*

19:00-22:00 WELCOME RECEPTION

Monday, September 11, 2017

8:00-8:10 OPENING OF EUNOS 2017 BUDAPEST MEETING

President of EUNOS Klara Landau
Chair of EUNOS 2017 Gabriella Szatmary

**8:10-8:55 KEYNOTE LECTURE 1.
Restoring Vision Using Optogenetics**

Botond Roska, Switzerland

8:55-9:00 *Discussion*



**9:00-10:00 MINI SYMPOSIUM 1.
"GENETICS AND GENE THERAPY IN NEURO-OPHTHALMOLOGY"**

- 9:00-9:20 **What's New in Gene Therapy in Humans**
Bart Leroy, USA
- 9:20-9:35 **Currently Ongoing Genetic Therapeutic Trial in Leber Hereditary Optic Neuropathy?**
Catherine Vignal Clermont, France
- 9:35-9:55 **Neuro-Ophthalmic Manifestations and Upcoming Gene Therapy for SCA**
Jorge Kattah, USA
- 9:55-10:00 *Discussion*

10:00-10:30 Break

**10:30-12:00 SYMPOSIUM 1.
THE EYE AND THE BRAIN SYMPOSIUM**

10:30-11:10 KEYNOTE LECTURE 2.

- Ocular Biomarkers of Traumatic Brain Injury**
Randy H. Kardon, USA
- 11:10-11:30 **Ocular Biomarkers of Disease in Children: Structure and Function**
Irene Gottlob, United Kingdom
- 11:30-11:50 **A Neurodegenerative Perspective on Mitochondrial Optic Neuropathies**
Patrick Yu-Wai-Man, United Kingdom
- 11:50-12:00 *Questions & Answers*

**12:30-13:30 LUNCHTIME SYMPOSIUM
LEBER HEREDITARY OPTIC NEUROPATHY**

- 12:30-12:35 **Introduction**
Patrick Yu-Wai-Man, United Kingdom
- 12:35-12:50 **Clinical Features and Molecular Genetics**
Catherine Vignal-Clermont, France
- 12:50-13:00 **Differential Diagnosis and Investigations**
An-Guor Wang
- 13:00-13:10 **Patient Representatives - Living with LHON**
Russell Wheeler & Pedro Luengo
- 13:10-13:25 **Treatment Options for LHON**
Thomas Klopstock, Germany
- 13:25-13:30 **Closing Remarks**
Aki Kawasaki, USA

13:30-14:00 Break

**14:00-15:45 SYMPOSIUM 2.
VASCULAR DISORDERS WITH NEURO-OPHTHALMIC MANIFESTATIONS
SYMPOSIUM**

- 14:00-14:20 **When is Diplopia Strongly Suggestive of a Vascular Event?**
Caroline Tilikete, France
- 14:20-14:25 *Questions & Answers*



- 14:25-14:45 **When is Visual Loss Strongly Suggestive of a Vascular Event?**
Paul Riordan-Eva, United Kingdom
- 14:45-14:50 Questions & Answers
- 14:50-15:10 **NAION: A Spectrum of Ischemia**
Anthony Arnold, USA
- 15:10-15:15 Questions & Answers
- 15:15-15:35 **Neurointerventional Treatment of Vascular Pathology Causing
Ophthalmological Symptoms**
Istvan Szikora, Hungary
- 15:35-15:45 Questions & Answers

15:45-16:15 *Break*

**16:15-18:00 SYMPOSIUM 3.
NEURO-OPHTHALMIC COMPLICATIONS OF NEOPLASTIC DISEASE**

- 16:15-16:35 **Optic Pathways Glioma – Update**
Neil Miller, USA
- 16:35-16:55 **Emerging Retinal Imaging Applications in Neuro-ophthalmology-Neuro-oncology**
Delia DeBuc Cabrera, Gabriella Szatmáry, USA
- 16:55-17:20 **Overview of Neuro-Ophthalmic Aspects of Malignant Tumors**
Ruth Huna Baron, Israel

**17:20-17:55 KEYNOTE LECTURE 3.
Radiation Optic Neuropathy**
Laszlo Mechtler, USA

17:55-18:00 *Discussion*

18:30 **Counsel Meeting**

Tuesday, September 12, 2017

**8:00-10:00 SYMPOSIUM 4.
EYE PAIN AND ALIKES**

- 8:00-8:30 **The Face Doesn't Lie: Objective Measures of Photosensitivity**
Randy H. Kardon, USA
- 8:30-9:00 **More than Meets the Eye: Migraine Phenomena and The Eye**
Kathleen Digre, USA
- 9:00-9:20 **Ophthalmic Causes of Eye Pain**
Andrea Facsko, Hungary
- 9:20-9:40 **Eye Pain: Beyond the Usual Suspects**
Patrick Lavin, USA
- 9:40-9:50 *Discussion*

9:50-10:00 UPDATE ON NOVEL

10:00-10:30 *Break*

10:30-12:30 SYMPOSIUM 5.

BEYOND IIH: HIGH AND LOW CEREBROSPINAL FLUID PRESSURE SYNDROMES

10:30-10:50 TBA

Gordon Plant, United Kingdom

10:50-11:15 **Relationship Between Intraocular and Intracranial Pressure**

Marijan Klarica, Zagreb, Croatia

11:15-11:30 **Relationship Between Spontaneous Venous Pulsation and ICP/IOP**

Fion Bremner, United Kingdom

11:30-11:45 TBA

Gabor Michael Halmagyi, Australia

11:45-12:00 **Is There Any Correlation Between Idiopathic Intracranial Hypertension and Intracerebral Venous Circulatory Disorders?**

Judit Somlai, Hungary

12:00-12:15 *Discussion*

12:15-12:30 UPDATE ON THE JOURNAL NEURO-OPHTHALMOLOGY

Walter Jay, USA & Gordon Plant, United Kingdom

12:30-14:00 Lunch & POSTER SESSION II.

14:00-17:00 SYMPOSIUM 6.

NEURO-OPHTHALMIC APPLICATIONS OF EYE AND BRAIN IMAGING

14:00-15:20 IMAGING I

14:00-14:30 **Laser Speckle Blood Flow and OCT Angiography: New Aspects of Imaging Ocular Blood Flow in Neuro-Ophthalmology**

Randy H. Kardon, USA

14:30-14:50 **Introduction: What is Adaptive Optics?**

Kristina Irsch, USA

14:50-15:10 **Looking at The Optic Nerve Head and Seeing the Lamina Cribrosa with Adaptive Optics**

St phanie Zwillinger, France

15:10-15:20 *Discussion*

15:20-15:40 Break

15:40-17:00 IMAGING II.

15:40-16:00 **Peering at Sensory and Neural Retina: Overlap Retina-Neuro-Ophthalmic Syndromes**

Kiyoko Gocho, Japan

16:00-16:20 **Vascular Wall Changes with Intracranial and Arterial Hypertension**

Michel Pacques, France

16:20-16:50 **KEYNOTE LECTURE 4.**

Neocortex Calcium Imaging of the Visual System

Balazs Rozsa, Hungary

16:50-17:00 *Discussion*



**17:00-18:00 MINI SYMPOSIUM 2.
FUTURE DIRECTIONS IN NEURO-OPHTHALMOLOGY**

17:00-17:15 **Management of Giant Cell Arteritis – What’s New?**

Klara Landau, Switzerland

17:15-17:30 **Tablets and Smart Phone Accessibility Features for Neuro-Ophthalmological Conditions**

Walter Jay, USA

17:30-17:45 **Amblyopia: From a Pediatric to a Neuro-Ophthalmic Disorder**

Hana Leiba, Israel

17:45-18:00 **Strabismus Measurements with Novel Video Goggles**

Konrad Weber, Switzerland

19:00 GALA DINNER

Wednesday, September 13, 2017

8:00-9:00 GENERAL ASSEMBLY MEETING

**9:00-10:30 SYMPOSIUM 7.
UNEXPLAINED VISUAL LOSS ILLUSTRATED BY CASE PRESENTATIONS**

9:00-9:20 **How to Approach a Patient with Unexplained Visual Loss?**

Marko Hawlina, Slovenia

9:20-9:40 **Unexplained Visual Loss-Differential Diagnostic Clinical Findings**

Marta Janaky, Hungary

9:40-10:00 **Psychogenic Disorders in Neuro-Ophthalmology**

Patrick Lavin, USA

10:00-10:20 **Why the ERG is Extinguished ("flat") in Leber's Congenital Amaurosis**

Cameron Parsa, France

10:20-10:30 *Discussion*

10:30-11:00 Break

**11:00-11:40 EUNOS LECTURE
Controversies in Neuro-Ophthalmology**

Neil Miller, USA

11:40-11:50 *Discussion*

**11:50-12:55 MINI SYMPOSIUM 4.
SCIENTIFIC SYMPOSIUM 2.
Free papers and Case presentations**

Fion Bremner, United Kingdom & Anat Kesler, Israel

12:55-13:00 CLOSING REMARKS OF EUNOS 2017

13:00 *Certificate of attendance*