



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 Hévia, 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
László CSIBA, Hungary
Kathleen DIGRE, USA
Andrea FACSKÓ, Hungary
Marko HAWLINA, Slovenia
Ruth HUNA BARON, Israel
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Klara LANDAU, Switzerland
Zoltán Zsolt NAGY, Hungary
János NÉMETH, Hungary
Gábor SOMFAI, Hungary
Judit SOMLAI, Hungary
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
Moderators: **Timothy D. Matthews and Susan Mollan, United Kingdom**

- 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
Moderators: **Caroline Tilikete, France and Konrad Weber, Switzerland**

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

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



14:00-18:00 RESEARCH SYMPOSIUMS

OPTIC NERVE SYMPOSIUM BY EUNOS RESEARCH COMMITTEE

Moderators: **Jette Frederiksen, Denmark and Patrick Yu-Wai-Man, United Kingdom**

14:00-16:00 RESEARCH SYMPOSIUM 1.

MAGNETIC RESONANCE IMAGING IN MULTIPLE SCLEROSIS (MAGNIMS) & OPTHALMIC 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 Cabrera, 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*

18:30-21:30 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"
Moderators: **Aki Kawasaki**, Switzerland and **Catherine Vignal Clermont**, France

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
Moderators: **Patrick Yu-Wai-Man** and **Axel Petzold**, United Kingdom

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
Moderators: **Patrick Yu-Wai-Man**, United Kingdom and **Aki Kawasaki**, Switzerland

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, Switzerland

13:30-14:00 Break



14:00-15:45 SYMPOSIUM 2.

**VASCULAR DISORDERS WITH NEURO-OPHTHALMIC MANIFESTATIONS
SYMPOSIUM**

Moderators: **László Csiba and Dániel Bereczki, Hungary and Patricia Logan, Ireland**

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

Moderators: **Ruth Huna Baron, Israel and Attila Bago, Hungary**

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

FREE EVENING

Tuesday, September 12, 2017

8:00-10:00 SYMPOSIUM 4.

EYE PAIN AND ALIKES

Moderators: **Kathleen Digre, USA and Andrea Facskó, Hungary**

8:00-8:30 **Facial Feature Analysis**

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 **CGRP Inhibitors and Migraine**

9:20-9:50 **Eye Pain: Beyond the Usual Suspects**

Patrick Lavin, USA

9:50-10:00 *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

Moderators: **Gordon Plant, United Kingdom & Judit Somlai, Hungary**

10:30-10:50 **High and Low CSF Pressure Syndromes and Neuro-Ophthalmology**

Gordon Plant, London, United Kingdom

10:50-11:10 **High and Low CSF Syndromes: MRI and OCT**

Laura dell'Arti, London, United Kingdom

11:10-11:30 **Is There Any Correlation Between Idiopathic Intracranial Hypertension and Intracerebral Venous Circulatory Disorders?**

Judit Somlai, Budapest, Hungary

11:30-11:40 **Stenting Makes More Sense than Shunting**

Gabor Michael Halmagyi, Sydney, Australia

11:40-11:50 **Relationship Between Intraocular and Intracranial Pressure**

Marijan Klarica, Zagreb, Croatia

11:50-12:00 **Use of the Heidelberg Spectralis OCT Device to Assess Spontaneous Venous Pulsation in Patients with Headaches**

James McHugh, London, United Kingdom

12:00-12:15 *Discussion*

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

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

Moderators: **Cameron Parsa, France and Gábor Somfai, Hungary**

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**

Stéphanie 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

Moderators: Klara Landau, Switzerland and Walter Jay, USA

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

Moderators: Marko Hawlina, Slovenia and Marta Janaky, Hungary

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*



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



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*