



PROGRAMME

**NEURO-OPHTHALMOLOGY:
FROM BENCH TO BEDSIDE,
AND BACK**

**SEPTEMBER 18-19-20, 2025
LISBOA**

FUNDAÇÃO CHAMPALIMAUD

ORGANIZING COMMITTEE

AASEF SHAIKH
ALESSANDRA RUFA
ALEXANDER TARNUTZER
CAROLINE FROMENT
DAVID ZEE

LOCAL CO-CHAIRS

DÁLIA MEIRA
MARCELO MENDONÇA
JOÃO LEMOS

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RESEARCH DAY

18 September 2025

09h00 Opening Ceremony

Leonor Beleza, Isabel Santana,
Luís Abegão Pinto, David Zee,
Aasef Shaikh, Alexander Tarnutzer,
Alessandra Rufa, Caroline Froment,
João Lemos, Dália Meira,
Marcelo Mendonça

C1. Moderator: Joaquim Alves da Silva

09h30 C1. What did we learn from eye movements about the cerebellum

David Zee

10h00 C1. Integrative network models in dystonias – lessons learned from eye movements and applied to movement disorders

Aasef Shaikh

10h30 C1. How catch-up saccade in VOR deficit can help to understand brain plasticity

Caroline Froment

11h00 Coffee Break

C2. Moderator: Miguel Castelo-Branco

11h30 C2. Working memory guides selection of escape movements in zebrafish larvae

Michael Orger

12h00 C2. Locomotor adaptation under climbing fiber control

Alice Geminiani

12h30 C2. Motor control and its components

John Krakauer

13h00 Lunch

C3. Moderator: Marcelo Mendonça

14h00 C3. Visual neuroscience and clinical translation in neurodevelopmental disorders

Miguel Castelo-Branco

14h30 C3. Mechanisms of perceptual decision making

João Castelhanos

15h00 C3. Mechanisms of visual plasticity in humans

Otília Cardoso d' Almeida

15h30 Coffee Break

C4. Moderator: Alice Geminiani

16h00 C4. Models of peripheral positional nystagmus

Anita Bandhari

16h30 C4. Models of central positional nystagmus

Alexander Tarnutzer

17h00 C4. Computational models of saccades

Stefano Ramat



CLINICAL DAY

19 September 2025

C1. Moderator: Aasef Shaikh

09h00 **C1. Tips, tricks and pearls to diagnose eye movement disorders**
David S. Zee

09h30 **C1. Approach to jerk nystagmus**
Alexander Tarnutzer

10h00 **C1. Approach to pendular nystagmus**
Caroline Froment

10h30 **Case Presentation**
Alexandra Thele

10h45 **Coffee Break**

C2. Moderator: João Lemos

11h00 **C2. Neurobiology of saccades**
Anja Horn-Bochtler

11h30 **C2. Membrane based models of disorders of saccades and gaze-holding – implication in autoimmune disorders**
Aasef Shaikh

12h00 **C2. Saccades and saccadic intrusions in neurodegenerative disorders**
Janet Rucker

12h30 **Case Presentation**
Alexandra Thele

12h45 **Lunch**

C3. Moderator: Alexander Tarnutzer

14h00 **C3. Gene therapy for retinal diseases**
Pedro Antas

14h30 **C3. Hereditary ataxias**
Alessandra Rufa

15h00 **C3. Hereditary optic neuropathies**
Sérgio Estrela

15h30 **Case Presentation**
Maritta Spiegelberg

15h45 **Coffee Break**

C4. Moderator: Caroline Froment

16h00 **C4. Computational modeling of ocular motor plant**
Stefano Ramat

16h30 **C4. Approach to strabismus**
Fatema Ghasia

17h00 **C4. Eye movements in myasthenia and related disorders**
João Lemos

17h30 **Case Presentation**
André Jorge



CLINICAL DAY

20 September 2025

C5. Moderator: Dália Meira

09h00 **C5.** What do the eye movements teach us about fatigue in multiple sclerosis
Alessandro Serra

09h30 **C5.** Afferent visual function in multiple sclerosis
João Lemos

10h00 **C5.** The optic nerve in neuromyelitis optical spectrum disorders/MOGAD
Alessandro Serra

10h30 **Case Presentation**
André Jorge

10h45 **Coffee Break**

C6. Moderator: Miguel Raimundo

11h00 **C6.** Artificial Intelligence and retinal Imaging to diagnose neurodegenerative disorders
Rui Bernardes

11h30 **C6.** Ischemic optic neuropathy
Pedro Fonseca

12h00 **C6.** Differential diagnosis of disc edema: intracranial hypertension and more
Marta Macedo

12h30 **Case Presentation**
Daniel Cardoso

12h45 **Break time for lunch**
(not included in the programme)

C7. Moderator: Marta Macedo

14h00 **C7.** Migraine and visual phenomena: lessons learned from structural and functional imaging
Raquel Gil-Gouveia

14h30 **C7.** How to interpret visual fields
Carolina Bruxelas

15h00 **C7.** Pupils in neuro-ophthalmology
Carolina Bruxelas

15h30 **Case Presentation**
Celso Costa

15h45 **Coffee break**

C8 Moderator: Carolina Bruxelas

16h00 **C8.** Retinal imaging in animal models: searching for biomarkers of neurodegeneration
Sara Oliveira

16h30 **C8.** Retinal imaging in humans: the clinical use of optical coherence tomography in assessing retrograde degeneration in post-chiasmal, chiasmal, and pre-chiasmal disease
Dália Meira

17h00 **C8.** Applied visual electrophysiology
Miguel Raimundo

17h30 **Case Presentation**
Vera Sá Araújo

17h45 **End**

