**PRELIMINARY PROGRAM**

**UPDATED: MAY 23, 2019**

**THURSDAY: SEPTEMBER 12**

**9:00—9:15 WELCOME WORDS**

* [Petri Ala-Laurila](https://www.erm2019.com/petri-ala-laurila) (Aalto University & University of Helsinki, Finland)

 **9:15—10:55 SESSION I: PHOTOTRANSDUCTION, PHOTORECEPTORS AND RPE**

* [King-Wai Yau](https://www.erm2019.com/kingwai-yau) (Johns Hopkins University, Baltimore, USA)
Title: *Light Detection in the Eye — The Big Picture*
* [Marie Burns](https://www.erm2019.com/marie-burns) (UC Davis, USA)
Title: *Rod photoreceptor signaling and homeostasis*
* [Soile Nymark](https://www.erm2019.com/soile-nymark) (Tampere University, Finland)
Title: *Voltage-Gated Ion Channels of RPE: Important Players in Photoreceptor Renewal*
* TBA

**10:55—11:15 COFFEE**

 **11:15—13:05 SESSION II: NEURAL COMPUTATIONS IN THE RETINA**

* [Tim Gollisch](https://www.erm2019.com/tim-gollisch) (University Medical Center Göttingen, Germany)
Title: *Retinal coding of dynamic visual scenes*
* [Philipp Berens](https://www.erm2019.com/philipp-berens) (University of Tubingen, Germany)
Title: *Inferring biophysical models of retinal neurons from data*
* TBA
* TBA

**13:05—14:05 LUNCH

14:05—15:55 SESSION II: NON-IMAGE FORMING VISION**

* [Tiffany Schmidt](https://www.erm2019.com/tiffany-schmidt) (Northwestern University, USA)
Title: *GABAergic ipRGCs in the mouse retina*
* [Annette Allen](https://www.erm2019.com/annette-allen) (University of Manchester, UK)
Title: *Redesigning visual displays to understand how melanopsin helps us to see*
* [Samer Hattar](https://www.erm2019.com/samer-hattar) (Johns Hopkins University, Maryland, USA)
Title: TBA
* [Michael Do](https://www.erm2019.com/michael-do) (Harvard Medical School, USA)
Title: *Biophysical Specializations of Mammalian Photoreceptors*

**15:55—16:15 COFFEE**

**16:15—17:45 SHORT TALKS AND QUICKFIRE SESSION**

Short talks and quickfire presentations selected from the abstracts

**17:45— POSTER SESSION I**

**20:30— SOCIAL PROGRAM:**

[Löyly](http://www.loylyhelsinki.fi/en/front-page/) restaurant and sauna bar at Helsinki waterfront

**FRIDAY, SEPTEMBER 13**

**9:00—10:50 SESSION IV: NOVEL METHODS IN VISUAL NEUROSCIENCE**

* [Botond Roska](https://www.erm2019.com/botond-roska) (Friedrich Miescher Institute for Biomedical Research Basel, Switzerland)
Title: TBA
* [Valentina Emiliani](https://www.erm2019.com/valentina-emiliani) (Vision Insitut / CNRS, France)
Title: *Holographic manipulation of visual circuits*
* [Alexander Mathis](https://www.erm2019.com/alexander-mathis) (Harvard University, USA)
Title: *DeepLabCut: a deep learning tool for fast, robust, and efficient 3D pose estimation*
* TBA

**10:50—11:10 COFFEE**

 **11:10—13:25 SESSION V: CONES AND COLOR VISION (RAGNAR GRANIT SESSION)**

* [Austin Roorda](https://www.erm2019.com/austin-roorda) (UC Berkeley, USA)
Title: *Hacking the human visual system*
* [Tom Baden](https://www.erm2019.com/tom-baden) (University of Sussex, UK)
Title: *Zebrafish colour vision and natural light*
* [Katrin Franke](https://www.erm2019.com/katrin-franke) (University of Tübingen, Germany)
Title: *Chromatic processing in the mouse retina*
* [Tim Brown](https://www.erm2019.com/tim-brown) (University of Manchester, UK)
Title: *Yellow is the new blue: Chromatic control of the mammalian circadian system*
* TBA

**13:25—14:25 LUNCH**

 **14:25—16:15 SESSION VI: RETINAL CIRCUITS I**

* [Fred Rieke](https://www.erm2019.com/fred-rieke) (University of Washington, Seattle, USA)
Title: *Retinal coding of natural inputs*
* [Keisuke Yonehara](https://www.erm2019.com/keisuke-yonehara) (Aarhus University, Denmark)
Title: *Visual motion processing from retina to visual cortical areas in mice*
* [Wei Wei](https://www.erm2019.com/wei-wei) (University of Chicago, USA)
Title: *A dynamic retinal circuit for context-dependent motion processing*
* TBA

**16:15—16:35 COFFEE**

 **16:35—17:15 QUICKFIRE SESSION**

Quickfire presentations selected from the abstracts

**17:15—19:15 POSTER SESSION II**

**19:15—19:35 BOATS TO THE DINNER AT SUOMENLINNA SEA FORTRESS**

**19:35— CONFERENCE DINNER**

[The conference dinner](https://www.erm2019.com/conference-dinner) will take place in the Suomenlinna sea fortress

**SATURDAY, SEPTEMBER 14**

**9:00—10:50 SESSION VII: BEYOND THE RETINA**

* [Herwig Baier](https://www.erm2019.com/herwig-baier) (Max Planck Institute of Neurobiology, Germany)
Title: *Gone hunting – Visuomotor circuits for prey capture behavior in zebrafish*
* [Chinfei Chen](https://www.erm2019.com/chinfei-chen)(Harvard, USA)
Title: *Convergence of the Retinogeniculate Circuit*
* [Maarten Kamermans](https://www.erm2019.com/maarten-kamermans) (Netherlands Institute for Neuroscience)
Title: *Nystagmus in patients with congenital stationary night blindness (CSNB) originates from synchronously firing direction-selective retinal ganglion cells*
* *TBA*

**10:50—11:10 COFFEE**

 **11:10—13:00 SESSION VIII: RETINAL CIRCUITS II**

* [Thomas Euler](https://www.erm2019.com/thomas-euler) (University of Tübingen, Germany)
Title: TBA
* [Jeffrey Diamond](https://www.erm2019.com/jeffrey-diamond) (NIH, USA)
Title: TBA
* [Greg Field](https://www.erm2019.com/greg-field) (Duke University, USA)
Title: *Meta-Mosaics of the Mammalian Retina*
* TBA

**13:00—14:00 LUNCH**

**14:00—14:30 YOUNG INVESTIGATOR AWARD & BUSINESS MEETING**