

# Swiss Eye Research Meeting 2025

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30 & 31 Jan 2025

Hôtel Beaulac, Neuchâtel

Program

## Thursday: January 30, 2025

| Time                               | Team / Affiliation  | Speakers / Presentations   | Moderator                        |
|------------------------------------|---|--|----------------------------------|
| 10:00-10:45                        | <b>WELCOME COFFEE</b>   |  |                                  |
| 10:45-11:00                        | <i>Welcome talk by Corinne Kostic Dpt Ophthalmology, Jules Gonin Eye Hospital, University of Lausanne</i>   |  |                                  |
| 11:00-11:20                        | <b>Team Curcio/Conedera</b>   | <b>Simona Intonti</b> : “Uveal melanoma immune infiltrate characterization to set up new effective therapies”  | <b>Carlo Rivolta</b>             |
| 11:20-11:40                        | <b>Team A. Berger</b>   | <b>Luigi Mazzeo</b> : “Molecular and spatial profiling of retinoblastoma reveals differentiation-driven tumor subtypes”  |                                  |
| 11:40-12:00                        | <b>Team Langmann</b>  | <b>Julia Hofmann</b> : “Deciphering the role of MAPK6/ERK3 in the retina”<br><i>Cancelled</i> as a potential trigger of microglial response and degenerating retina” |                                  |
| 12:00-12:20                        | <b>Team Roduit</b>  | <b>Marc Schwab</b> : “Deciphering the role of MAPK6/ERK3 in the retina”  | <b>Patricia Boya</b>             |
| 12:20-12:40                        | <b>Team Neuhaus</b>   | <b>1. Ioanna Koutroumpa</b> : “Gaining insights into the recycling pathway dynamics of 11-cis retinal using the cone dominant zebrafish retina”                      |                                  |
| 12:40-14:00                        | <b>LUNCH ☞ LUNCH ☞ LUNCH ☞ LUNCH ☞ LUNCH ☞ LUNCH</b>  |  |                                  |
| 14:00-14:20                        | <b>Team Neuhaus</b>   | <b>2. Jacqueline G. Kientsch</b> : “Glucose supply and aerobic glycolysis define a retinal metabolic landscape essential for vision”                                 | <b>Patricia Boya</b>             |
| 14:20-14:40                        | <b>Team Escher</b>  | <b>Alexander Schmid</b> : “Peroxisome Proliferator-Activated Receptors: Function and Significance in Murine Photoreceptors”  | <b>Christian Grimm</b>           |
| 14:40-15:00                        | <b>Team Enzmann</b>   | <b>Jelena Murar</b> : “Patient-derived iPSCs and retinal organoids to study a Swiss retinal dystrophy in a dish.”  |                                  |
| 15:00-15:20                        | <b>Team Gyorgy</b>  | <b>Jay Zoellin</b> : “Adapting Natural Domain Foundation Models for Retinal Imaging Without Catastrophic Forgetting”   |                                  |
| 15:20-16:15                        | <b>COFFEE BREAK ☞ COFFEE BREAK ☞ COFFEE BREAK ☞ COFFEE BREAK</b>  |  |                                  |
| <b>SPECIAL TALK</b><br>16:15-17:15 | <b>Helen May-Simera</b><br><i>Ciliary Cell Biology, Institute of Molecular Physiology, Johannes Gutenberg-University Mainz, Mainz, Germany</i><br>“Beyond Photoreceptors: The consequence of ciliary defects in the RPE.” |  | <b>Ruxandra Bachmann-Gagescu</b> |
| 17:15-17:35                        | <b>Team Arsenijevic</b>   | <b>Fabio Duarte</b> : “Harnessing ADAR enzymes to treat inherited retinal diseases”  | <b>Elvir Becirovic</b>           |
| 17:35-17:55                        | <b>Team Kostic/ Arsenijevic</b>   | <b>Elora Vanoni</b> : “FAM161A-related RP drug development: quality assessment, a must for an efficient clinical translation”  |                                  |
| 19:30                              | <b>APÉRO ☞ APÉRO ☞ APÉRO ☞ APÉRO ☞ APÉRO ☞ APÉRO</b>  |  |                                  |
| 20:00                              | <b>DINNER ☞ DINNER ☞ DINNER ☞ DINNER ☞ DINNER ☞ DINNER</b>  |  |                                  |

## Friday: January 31, 2025

| Time                               | Team / Affiliation   | Speakers / Presentations   | Moderator               |
|------------------------------------|--|--|-------------------------|
| 08:30-9:30                         | <b>Team Grimm</b>  | <b>1. Fredy Geiger</b> : “HIF1A stabilization in the Outer Retina causes Type 3 Neovascularization and General Atrophy”  | <b>Raphaël Roduit</b>   |
|                                    |  | <b>2. Gabriele Wögenstein</b> : “Visualization of metabolic nanosensors with two-photon microscopy demonstrates different metabolic dynamics of rod photoreceptors and inner retinal neurons”                |                         |
|                                    |  | <b>3. Marcus Yong</b> : “Investigating the m6A Epitranscriptome in the Hypoxic Retina”   |                         |
| <b>SPECIAL TALK<br/>9:30-10:30</b> | <b>Fabio Benfenati</b><br>Center for Synaptic Neuroscience and Technology, The Italian Institute of Technology, IRCCS Ospedale Policlinico San Martino, Genova, Italy<br><b>“Non-genetic photostimulation of neurons: perspectives in visual restoration.”</b> |  | <b>Yvan Arsenijevic</b> |
| 10:30-11:10                        | <b>COFFEE BREAK ☿ COFFEE BREAK ☿ COFFEE BREAK ☿ COFFEE BREAK</b>   |  |                         |
| 11:10-11:30                        | <b>Team Zysset-Burri/<br/>Zinkernagel</b>  | <b>Justyna Studer</b> : “Linking the microbiome to the complement system in geographic atrophy”  | <b>Stephan Neuhaus</b>  |
| 11:30-11:50                        | <b>Team Westenkov</b>  | <b>Lynn Ebner</b> : “Role of cytokines and blood-derived factors in nAMD-associated fibrosis”  |                         |
| 11:50-12:10                        | <b>Team Zinkernagel</b>  | <b>Vittoria Spero</b> : “Systemic inflammation induces local production of complement 3 in the RPE and retina”   |                         |
| 12:10-12:30                        | <b>Team Mure</b>   | <b>Arianna Cella</b> : “Alteration of Light perception in Alzheimer’s disease”   | <b>Muhammad Ansar</b>   |
| 12:30-12:50                        | <b>Team Seeliger</b>   | <b>Alexander Günter</b> : “Evaluation of a novel light stimulation regime provides insights in retinal functionality in murine models of retinal degeneration”   |                         |
| 12:50-14:20                        | <b>LUNCH ☿ LUNCH ☿ LUNCH ☿ LUNCH ☿ LUNCH ☿ LUNCH</b>   |  |                         |
| 14:20-15:20                        | <b>Team Rivolta</b>  | <b>1. Marc Folcher</b> : “Lumiwald: Terrestrial bioluminescence and arthropod vision in UNESCO World Heritage European primeval forests.”  | <b>Volker Enzmann</b>   |
|                                    |  | <b>2. Dhryata Kamdar</b> : “RetiGene: A Comprehensive Gene Atlas for Inherited Retinal Diseases (IRDs)”  |                         |
|                                    |  | <b>3. Karolina Kaminska</b> : “A novel cause of recessive macular dystrophy – three genes encoding subunits of the vesicular AP-5 complex are involved in the pathogenesis of a distinct retinal phenotype.” |                         |
| 15:20-15:40                        | <b>Team Ansar</b>  | <b>Rashid Abdur</b> : “Biallelic loss-of-function variants in GNGT1 likely cause retinitis pigmentosa in humans”   |                         |
| 15:50-16:00                        | <b>AWARDS FOR BEST PRESENTATIONS: RETINA SUISSE</b>  |  |                         |
| 16:00                              | <b>E N D</b>   |  |                         |

**MANY THANKS TO THE SPONSORS OF THE SWISS EYE RESEARCH  
MEETING...**

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