

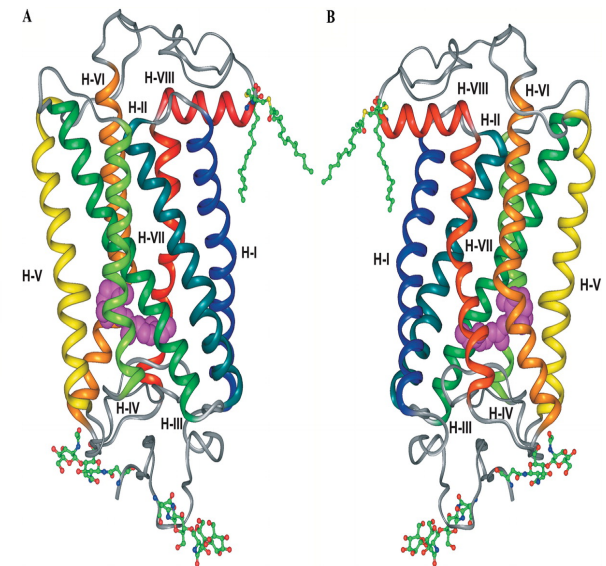
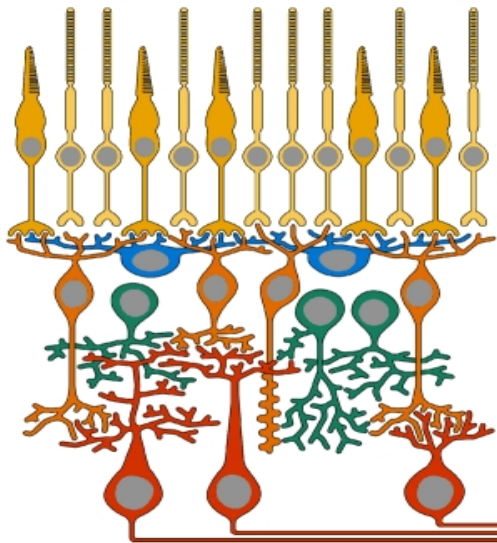
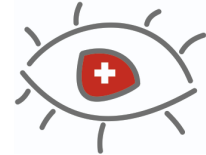
# SWISS EYE RESEARCH MEETING 2013 (SERM2013)

Swiss Eye Research Meeting  
SERM 2013, Biel



**Venue:** Hotel Elite, Biel  
**Date:** Jan 24 – Jan 25, 2013

Swiss Eye Research Meeting  
SERM 2013, Biel



## Thursday; January 24, 2013

TIME	TEAM / TALK	SPEAKERS	AFFILIATION	MODERATOR
10.00 – 10.45	WELCOME COFFEE			
10.45 – 11.00	<b>Welcome</b>	<b>Christian Grimm</b>	Lab for Retinal Cell Biology Dept Ophthalmol, Univ. Zurich	
11.00 – 11.45	<b>Team Arsenijevic</b>	<b>Sarah Decembrini Corinne Kostic Karine Schouwey</b>	Unit of Gene Therapy and Stem Cell Biology, Jules-Gonin Eye Hospital, Lausanne	<b>Wolfgang Berger</b>
11.45 – 12.30	<b>Team Enzmann</b>	<b>Markus Tschopp Jasmin Balmer Isai Mathivanan</b>	Exp. Ophthalmology, Dept of Ophthalmology, Inselspital, University of Bern	<b>Yvan Arsenijevic</b>
12.30 – 14.00	LUNCH *	LUNCH * LUNCH *	LUNCH * LUNCH *	LUNCH
14.00 – 15.00	<b>Team Schorderet</b>	<b>Fabienne Marcelli Arnaud Boulling Delphine Balmer Gaëtan Pinton</b>	Institut de Recherche en Ophtalmologie (IRO), Sion	<b>Volker Enzmann</b>
15.00 – 15.45	<b>Team Berger</b>	<b>Romain Da Costa Britta Seebauer Amit Tiwari</b>	Institute of Medical Molecular Genetics, University of Zürich	<b>Daniel Schorderet</b>
15.45 – 16.30	COFFEE BREAK *	COFFEE BREAK *	COFFEE BREAK *	COFFEE BREAK *
<b>SPECIAL TALK 16.30 – 17.15</b>	<b>THOMAS EULER: A matched filter for sampling natural contrast statistics in cone photoreceptors</b>		<b>Centre for Integrative Neuroscience; University of Tübingen, Germany</b>	<b>Christian Grimm</b>
17.15 – 17.45	<b>Team Grimm</b>	<b>Divya Ail Christian Caprara</b>	Lab for Retinal Cell Biology Dept Ophthalmol, Univ. Zürich	<b>Mathias Seeliger</b>
17.45 – 18.00	<i>MARCH5 – a mitochondrial ubiquitin ligase involved in glaucomatous neurodegeneration</i>	<b>Albert Neutzner</b>	University Eye Hospital, Basel	
19.30	APÉRO *	APÉRO * APÉRO *	APÉRO * APÉRO *	APÉRO
20.00	DINNER *	DINNER * DINNER *	DINNER * DINNER *	DINNER

## Friday; January 25, 2013

TIME	TEAM / TALK	SPEAKERS	AFFILIATION	MODERATOR
09.30 – 10.15	<b>Team Seeliger</b>	Christina Seide Vithijanjali Sothilingam Marina Garcia Garrido	Institute for Ophthalmic Research, University of Tübingen	<b>Carlo Rivolta</b>
10.15 – 10.45	COFFEE BREAK * COFFEE BREAK * COFFEE BREAK * COFFEE BREAK * COFFEE BREAK			
10.45 – 11.15	<b>Team Rivolta</b>	Konstantinos Nikopoulos Koji Nishiguchi	Dept. of Medical Genetics, University of Lausanne	<b>Farhad Hafezi</b>
11.15 – 11.45	<b>Team Neuhauss</b>	Jingjing Zang Ruxandra Bachmann-Gagescu	Institute of Molecular Life Sciences, University of Zürich	<b>Ulrich Luhmann</b>
<b>SPECIAL TALK 11.45 – 12.30</b>	<b>KRISTINA NARFSTROM:</b> <b>Assessment of hereditary retinal degenerations in large animal models as models for human retinal dystrophies</b>		<b>Dept. of Vet. Med. &amp; Surg., College of Veterinary Medicine, University of Missouri, USA</b>	<b>Christian Grimm</b>
12.30 – 14.00	LUNCH * LUNCH * LUNCH * LUNCH * LUNCH * LUNCH			
14.00 – 14.20	<i>Ccl2, Cx3cr1 and Ccl2/Cx3cr1 chemokine deficiencies are not sufficient to cause age-related retinal degeneration</i>	Ulrich Luhmann	UCL Inst. of Ophthalmology, Department of Genetics London, UK	<b>Albert Neutzner</b>
14.20 – 15.30	<b>Team Hafezi</b>	Farhad Hafezi Arthur Hammer Olivier Richoz Florence Hoogewoud David Tabibian	Laboratory for Ocular Cell Biology, Geneva University Hospital	<b>Stephan Neuhauss</b>
15.45 – 16.00	<b>AWARDS FOR BEST PRESENTATIONS: RETINA SUISSE</b>			
16.00	FAREWELL COFFEE * FAREWELL COFFEE * FAREWELL COFFEE * FAREWELL COFFEE * FAREWELL COFFEE			

## Presentations

### SPECIAL TALKS

**THOMAS EULER**

A MATCHED FILTER FOR SAMPLING NATURAL CONTRAST STATISTICS IN CONE PHOTORECEPTORS

***Centre for Integrative Neuroscience; University of Tübingen, GER.***

**KRISTINA NARFSTROM**

ASSESSMENT OF HEREDITARY RETINAL DEGENERATIONS IN LARGE ANIMAL MODELS AS MODELS FOR HUMAN RETINAL DYSTROPHIES

***Dept. of Vet. Med. & Surg., College of Veterinary Medicine, University of Missouri, USA***

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### Team ARSENIJEVIC (Jules Gonin Eye Hospital, University of Lausanne):

#### **SPEAKERS:**

- **Sarah Decembrini** Derivation of traceable photoreceptors from embryonic stem cells
  - **Corinne Kostic** Transgenic pigs for human dominant mutation GUCY2D<sup>E837D/R838S</sup>: a two year follow-up
  - **Karine Schouwey** Targeting specific retinal cell types to investigate the effects of *Bmi1* loss on the degenerating retina
- 

### Team BERGER (Institute of Medical Molecular Genetics, University of Zürich):

#### **SPEAKERS:**

- **Romain Da Costa** U snRNA-based gene therapy to treat splice defects
  - **Britta Seebauer** Pathogenic mechanism of a deletion in the basic domain of ATOH7 responsible for retinal dysplasia
  - **Amit Tiwari** Next generation sequencing based identification of disease-causing mutations in human retinal diseases
-

**Team ENZMANN (Exp. Ophthalmology, Dept of Ophthalmology, Inselspital, University of Bern):**

**SPEAKERS:**

- **Markus Tschopp** MNU-induced degeneration and regeneration in the zebrafish retina
  - **Jasmin Balmer** Tg21 – a new mouse model for congenital stationary night blindness?
  - **Isai Mathivanan** *In vitro* differentiation of adult human stem cells towards retinogenic fate
- 

**Team GRIMM (Lab for Retinal Cell Biology, Dept. of Ophthalmology, University of Zürich):**

**SPEAKERS:**

- **Divya Ail** Is *Hif1a* the missing link between complement activation and AMD?
  - **Christian Caprara** Intrinsically photosensitive retinal ganglion cells are resistant to *N*-methyl-*D*-aspartic acid excitotoxicity
- 

**Team HAFEZI (Laboratory for Ocular Cell Biology, Geneva University Hospital):**

**SPEAKERS:**

- **Farhad Hafezi** Introduction to the general topic.  
Transplantation of individualized recipient serum-adapted cornea in high-risk keratoplasty.
  - **Arthur Hammer** Biomechanical properties at different fluences, oxygen dependency of corneal collagen cross-linking.  
Riboflavin concentration in the cornea measured by 2 photon microscopy.
  - **Olivier Richoz** Corneal collagen cross-linking of the limbus.  
Bacterial killing rate at different fluences using photoactivated riboflavin. Inhibitory effect of fluorescein.  
Scleral cross-linking for the prevention of myopia.
  - **Florence Hoogewoud** Cross-linking prior to excimer laser ablation to avoid corneal scarring.
  - **David Tabibian** New biomechanical method to measure corneal biomechanical changes.
-

**Team NEUHAUSS (Institute of Molecular Life Sciences, University of Zürich):**

***SPEAKERS:***

- **Jingjing Zang** Regulation of the phototransduction cascade by recoverin genes
  - **Ruxandra Bachmann-Gagescu** Modeling of ciliopathies in the zebrafish by interfering with intracellular trafficking in photoreceptors
- 

**Team RIVOLTA (Department of Medical Genetics, University of Lausanne):**

***SPEAKERS:***

- **Konstantinos Nikopoulos** Genome-wide sequencing to identify disease-causing mutations in patients with recessive retinal degeneration
  - **Koji Nishiguchi** Genome sequencing reveals that genes responsible for retinal degeneration are frequently mutated in the general population
- 

**Team SCHORDERET (Institut de Recherche en Ophtalmologie (IRO), Sion):**

***SPEAKERS:***

- **Fabienne Marcelli** Dimerization of HMX1 is needed to regulate *Epha6* expression
  - **Arnaud Boulling** Identification of HMX1 target genes: a predictive promoter model approach
  - **Delphine Balmer** Autophagy protects 661W photoreceptor cells against low glucose-induced apoptosis
  - **Gaëtan Pinton** Cryo-injury of the zebrafish eye to study retinal regeneration
-

**Team SEELIGER (Division Ocular Neurodegen., Centre for Ophthalmol., Inst Ophthalmic Res., Univ. of Tübingen):**

**SPEAKERS:**

- **Christina Seide** Persistent hyaloid vessels counteract insufficient retinal perfusion in the mouse eye
  - **Vithiyanjali Sothilingam** Functional biomarkers for successful molecular therapy of the outer retina in retinal degenerations
  - **Marina Garcia Garrido** Rodent models for Usher syndrome: New aspects of disease severity
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**INDIVIDUAL Speakers:**

**ULRICH LUHMANN**

*Ccl2, Cx3cr1 and Ccl2/Cx3cr1 chemokine deficiencies are not sufficient to cause age-related retinal degeneration*

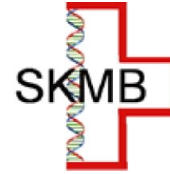
***UCL Institute of Ophthalmology, Department of Genetics, London, UK***

**ALBERT NEUTZNER**

*MARCH5 – a mitochondrial ubiquitin ligase involved in glaucomatous neurodegeneration*  
***University Eye Hospital, Basel***

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

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## ...AND TO THE SPONSORS OF THE SWISS EYE WEEK

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