

# Young Researcher Vision Camp

An international  
Career building Symposium

JUNE 21<sup>ST</sup> - 23<sup>RD</sup>, 2013

CASTLE WILDENSTEIN  
D-88637 LEIBERTINGEN, GERMANY



-An international Career building Symposium-

[www.vision-camp.eu](http://www.vision-camp.eu)

**DATE:** JUNE 21<sup>ST</sup> UNTIL JUNE 23<sup>RD</sup>, 2013  
**LOCATION:** CASTLE WILDENSTEIN  
D-88637 LEIBERTINGEN, GERMANY  
**TARGET GROUP:** YOUNG INVESTIGATORS IN VISION RESEARCH &  
OPHTHALMOLOGY

COURTESY SPONSORED BY



SUPPORTED BY THE RESEARCH PROGRAMS



# PRELIMINARY AGENDA

2013-05-13

## FRIDAY, JUNE 21<sup>ST</sup>, 2013

- until 16:30      Arrival (for details see 'How to get there')
- 18:00-19:00      **KEYNOTE LECTURE I**  
**'Photoreceptor Diversity Across Mammals: Adaptations to Lifestyle and Habitat?'**  
Leo Peichl  
Max-Planck-Institut for Brain Research, Frankfurt, Germany
- 19:30-open end      Open-air Barbecue (campfire outside the castle)

## SATURDAY, JUNE 22<sup>ND</sup>, 2013

- 06:00-07:00      Early morning exercises
- 07:00              Breakfast

08:00-09:00



### **SESSION I: OPTICAL AND ADAPTATIONAL LIMITS OF VISION'**

CHAIR: Juan Tabernero, Universidad de Murcia, Laboratorio de Óptica, Centro de investigación en Óptica y Nanofísica (CiOyN), Murcia, Spain

- **"Adaptation to Simultaneous Vision"**  
Aiswaryah Radhakrishnan (Madrid, Spain)
- **"The Dark Side of the Eye"**  
Dimitrios Christaras (Murcia, Spain)
- **"Adaptation in Peripheral Vision"**  
Abinaya Priya Venkataraman (Stockholm, Sweden)
- **"Chromatic Effects on the Optics of the Eye"**  
Yun Chen (Tuebingen, Germany)

OpAL is an Initial Training Network funded by the European Commission under the Seventh Framework Programme (PITN-GA-2010-264605)

09:00-10:00



## **SESSION II: 'NEURON-GLIA INTERACTIONS IN VISION'**

CHAIR: Antje Grosche, Paul Flechsig Institut for Brain Research University of Leipzig, Germany

- **"Gliotransmitter release from retinal Müller glial cells"**  
Lysann Wagner (Leipzig, Germany)
- **"Norrin mediates neuroprotective effects on retinal ganglion cells via the induction of leukemia inhibitory factor"**  
Stefanie Leopold, (Regensburg, Germany)
- **"GDNF induces secretion of Cyr61 from retinal Müller cells – a novel neuroprotective factor in retinal degeneration"**  
Joanna Kucharska (Munich, Germany)
- **"Stimulation and Analysis of Müller Glia and their Progeny"**  
Patrick Schäfer (Dresden, Germany)

eduGLIA is an Initial Training Network funded by the European Commission under the Seventh Framework Programme ((PITN-GA-2009-237956)

10:00-10:30

Coffee Break

10:30-11:30

## **SESSION III 'IDENTIFICATION AND CHARACTERIZATION OF GENES INVOLVED IN RETINAL DYSTROPHY'**

CHAIR: Rob Collin, UMC St Radboud, Human Genetics, Nijmegen, The Netherlands

- **"Genetic causes of retinal dystrophy in Indonesia"**  
Galuh D. Astuti, (Nijmegen, The Netherlands)
- **"Identification of novel homozygous deletions in consanguineous pedigrees as a shortcut to candidate gene discovery in retinal dystrophies"**  
Kristof van Schil (Ghent, Belgium)
- **"The farnesylated small GTPase RAB28 is mutated in autosomal recessive cone-rod dystrophy"**  
Susanne Roosing (Nijmegen, The Netherlands)
- **"Crumbs homologues 1 and 2 restrict retinal progenitor cell proliferation and retina overgrowth"**  
Henrique Alves (Amsterdam, The Netherlands)

11:30-12:30



## **SESSION IV 'INHERITED RETINAL DEGENERATIONS – CELL DEATH MECHANISMS AND PERSPECTIVES FOR THERAPIES'**

CHAIR: Francois Paquet-Durand, Department for Ophthalmology, Tuebingen, Germany

- **"Calcium dynamics in dying cone photoreceptors"**  
Manoj Kulkarni (Tübingen, Germany)
- **"Retinal biomechanics in health and disease"**  
Linnéa Taylor (Lund, Sweden)
- **"HDAC inhibition restores visual function in blind dying on edge (dye) mutants"**  
Lisa Shine (Dublin, Ireland)
- **"Ethanol exposure induces cell death by oxidative stress in human"**

## **RPE in vitro model"**

Luis Bonet-Ponce (Valencia, Spain)

DRUGSFORD is a Collaborative Project funded by the European Commission under the Seventh Framework Programme (HEALTH-F2-2012-304963)

12:30-14:00

Lunch

14:00-15:00

## **SESSION V: 'TRANSLATIONAL RESEARCH IN OPHTHALMOLOGY'**

CHAIR: Dominik Fischer, Nuffield Laboratory of Ophthalmology, University of Oxford, UK

- **"Using extremes to identify rare pathogenic variants in age-related-macular degeneration"**  
Constantin Paun (Nijmegen, Netherlands)
- **"Translating Induced Pluripotent Stem Cells from Bench to Bedside: Application to Retinal Diseases "**  
Alona O. Cramer (Oxford, United Kingdom)
- **"Chimeric human opsins as potential optogenetic tools for vision"**  
Doron Hickey (Oxford, UK)
- **"Fundus-controlled two-color adaptometry with the Microperimeter MP1"**  
Wadim Bowl (Gießen, Germany)

15:10-15:40



### **EDUCATIONAL SESSION I**

**'Academic research versus industrial innovation: friends or foes?'**

Siegfried Wahl, Carl Zeiss AG, Germany

15:50-16:20



### **EDUCATIONAL SESSION II**

**'The Balancing Act between Academia and Industry'**

Jan Kremers, University Erlangen-Nuernberg, Germany

16:20-16:50

Coffee Break

16:50-17:20



### **EDUCATIONAL SESSION III**

**Starting a Business**

Jens Grosche, Effigos AG, Leipzig, Germany

17:30-18:00



### **EDUCATIONAL SESSION IV**

**Insights to Research Activities driven by the Industry**

Markus Tiemann, Rodenstock GmbH, Munich, Germany

18:15-19:00

### **KEYNOTE LECTURE II**

**'Functional Assessment & Breadth of Application of Photoreceptor Transplantation Therapy'**

Amanda Barber

University of East Anglia, Norwich, UK

19:00-19:10

Group Photo

19:15-open end **POSTER SESSION**

20:30-open end Buffet in the inner bailey

## SUNDAY, JUNE 23<sup>RD</sup>, 2013

07:00-08:00 Early morning exercises

08:00 Breakfast

### 09:00-10:00 **SESSION VI 'RETINAL CIRCUITS/DATA PROCESSING'**

CHAIR: Timm Schubert, Centre for Integrative Neuroscience, Tuebingen, Germany

- **"Probing visual receptive fields at single synapse resolution"**  
Katrin Franke (Centre for Integrative Neuroscience, Tuebingen)
- **"Connexin interactions in the inner retina of the mouse"**  
Arndt Meyer (University of Oldenburg, Germany)
- **"Retinal ganglion cell recordings in human retina"**  
Katja Reinhard (Centre for Integrative Neuroscience, Tuebingen)
- **"Pericentrin in der Retina"**  
Nathalie Falk (University of Erlangen, Germany)

10:00-11:00



### **SESSION VII: 'PROTEIN TRANSPORT AND DYNAMICS IN PHOTORECEPTORS'**

CHAIR: Karsten Boldt, Department for Ophthalmology, Tuebingen, Germany

- **"Determination of ciliary sub-modules by SDS-destabilization and correlation profiling"**  
Yves Texier (Eberhard Karls University Tübingen, Germany)
- **"Ciliary transport in photoreceptor cells: the role of Usher syndrome related protein networks"**  
Nasrin Soroush (Johannes Gutenberg University of Mainz, Germany)
- **"Dissection of functional modules associated with retinal ciliopathies by affinity proteomics"**  
Minh Nguyen (Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands)
- **"NINL and DZANK1 cooperate in assembling the cytoplasmic dynein 1 motor complex, a process essential for photoreceptor outer segment formation in zebrafish"**  
Margo Dona (Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands)

DYNAMO is a research network funded by the German Federal Ministry of Education and Research

11:00 – 11:15 Announcement of the Poster Prize Awardees

### 11:15-12:00 **SESSION VIII 'INVERTEBRATE VISION'**

CHAIR: Emily Baird, Lund Vision Group, Lund University, Sweden

- **"The effect of light intensity on flight control in bumblebees"**  
Therese Reber (Baird-Dacke Group, Lund Vision Group, Department of Biology, Lund, Sweden)
- **"Seeing in the dark: higher-order visual processing in moths"**  
Anna Stöckl (Warrant Group, Lund Vision Group, Department of Biology, Lund, Sweden)
- **"Vision in box jellyfish"**  
Ronald Petie (Lund Vision Group, Department of Biology, Lund, Sweden)

12:00-12:45

### **SESSION IX 'REGENERATING VISION'**

CHAIR: Dominic Eberle, Center for Regenerative Therapies Dresden, Germany

- **"Cellular Reprogramming - An approach to drive cells towards retinal cell fate"**  
Anna Seifert (CRTD, Dresden, Germany)
- **"Modes of photoreceptor migration in transplant and development"**  
Katherine Warre-Cornish (UCL, London, UK)
- **"Cone-like photoreceptor transplantation into the mouse retina"**  
Tiago Ferreira (CRTD, Dresden, Germany)

13:00-14:30

FAREWELL Lunch (optional)

# CONDITIONS

- Attention:**
- All participants have to register themselves under <http://www.vision-camp.eu>
- Costs:**
- The costs for accommodation, catering and coffee breaks during the event will be covered; **however no travel costs!** The registration fee does not cover cost for accompanying persons – please enquire for details [info@vision-camp.eu](mailto:info@vision-camp.eu)
- Abstracts**
- All speakers and poster presenters have to submit online an abstract under the following URL: <http://www.vision-research.eu/index.php?id=850>

## YOUNG RESEARCHER VISION CAMP 2013

- Participation Fee**
- **Young Researcher**  
EUR 121,-- (incl. 21% VAT)
  - **Senior Researcher / Other / Private Sector**  
EUR 242,-- (incl. 21% VAT)

**Payment Information** Please transfer the participation fee to:  
European Vision Institute EEIG  
Rue du Trône 98  
B-1050 Brussels  
Belgium  
Keyword: ***VisionCamp2013\_Firstname\_Lastname***

**Banking Information** COMMERZBANK Belgium S.A./N.V.  
Boulevard Louis Schmidt 87  
B-1050 Brussels  
**Bank Account Number:** 179-6170021-69  
**IBAN Number:** BE71-1796-1700-2169  
**SWIFT-Code:** COBABEBX

## POSTER SESSION

A poster session is planned for Saturday evening, starting at 19:15. For the respective abstracts we will ask starting April 18<sup>th</sup>, 2013. For the submission of the abstracts an on-line tool will be available on the website [www.vision-camp.eu](http://www.vision-camp.eu). (<http://www.vision-research.eu/index.php?id=850>)

Deadline for the abstract submission: May, 15<sup>th</sup> 2013.

Three poster awards will be available, courtesy sponsored by Carl Zeiss AG.

- First Prize: 250 Euro
- Second Prize: 150 Euro
- Third Prize: 100 Euro

## EDUCATIONAL SESSIONS

The educational sessions are supported by the Career Day Initiative of HOPE2-Project “Hereditary Retinal Disorders - From Patients Towards Therapies”



## DRESSCODE

Outdoor clothing & rucksack

## ORGANISATION

### Scientific Organisation Committee

- Norbert Kinkl
- Francois Paquet-Durand
- Timm Schubert
- Thomas Wheeler-Schilling

### Local Organisation Committee

- Michaela Bitzer
- Sigrid Diether
- Philipp Hunger



## THE MEDIEVAL WILDENSTEIN CASTLE SITUATED...



... in the administrative district of Leibertingen is perched high above the Danube valley on a rock ledge.

The impressive castle dating back to the 11th century looks like a fortress and, besides the Beuron monastery and other castles and ruins nearby, it is a popular place with hikers and visitors in the romantic Danube valley.

## HOW TO GET THERE

### **By car:**

Take the A81 (Stuttgart-Singen), exit Tuttlingen, or the B313 Stockach–Sigmaringen, or the B311 (Riedlingen-Messkirch), exit Leibertingen.

### **By plane:**

There are several international airports close to castle Wildenstein: Stuttgart, Friedrichshafen and Memmingen, all in Germany and Zurich in Switzerland.

### **By train:**

Wildenstein can be reached via the train station in Beuron (6 km away in the Danube valley). Bus transfer to the youth hostel can be arranged. From the train station to the youth hostel it is a 5 km walk, to the town of Leibertingen it takes about 15 minutes.

### **More information**

Website of castle Wildenstein: <http://www.jugendherberge-burg-wildenstein.de/>

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