

## GENERAL INFORMATION

### Venue:

Anatomisches Institut  
Lehrstuhl II  
Universitätsstr. 19  
D-91054 Erlangen  
Germany

### Congress secretariat:

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### Registration fee:

free

# SYMPPOSIUM GLAUCOMA 2009

basic and  
clinical  
aspects

March 6 / 7 2009

Friedrich-Alexander-  
Universität  
Erlangen-Nürnberg  
Anatomisches Institut,  
Lehrstuhl II  
Universitätsstr. 19  
D- 91054 Erlangen

Sponsored by Sonderforschungsbereich 539 (Glaucoma including Pseudoexfoliationssyndrome) and generous contributions from



## Friday, March 6th, 2009

09.00 – 09.15 Introduction

09.00 *Elke Lütjen-Drecoll, MD*, Dept. of Anatomy, Erlangen, Germany

09.15 – 10.00 Pseudoexfoliation Glaucoma (PEXG)

09.15 *Robert Ritch, MD*, New York Eye and Ear Infirmary, USA  
Systemic manifestations of exfoliation syndrome

09.30 *Ursula Schlötzer-Schreiber, PhD*,

Dept. of Ophthalmology, Erlangen, Germany

Molecular pathology of PEX syndrome/glaucoma –  
New insights from LOXL1 gene associations

09.40 *Erik Linér, MD*, Göteborg, Sweden

The ocular exfoliation syndrome and brain damage in dementia patients

09.50 *Andre Reis, MD*, Dept. of Human Genetics, Erlangen, Germany

Genetics of PEX

10.00 Discussion

10.15 -10.45 Coffee Break

10.45 – 12.35 Primary Open Angle Glaucoma (POAG)

10.45 *Albert Alm, MD*, University Hospital, Uppsala, Sweden  
Prevalence, incidence, and IOP and PEX as risk factors

11.00 *Hideyuki Tanahashi, MD*, Dept. of Ophthalmology, Kumamoto, Japan

Rho-ROCK signaling for the regulation of aqueous outflow

11.15 *Franz Grehn, MD*, University Eye Hospital, Würzburg, Germany  
The challenge of wound healing in glaucoma surgery

11.30 Discussion

11.40 *Michael Fautsch, PhD*, Mayo Clinic, Rochester, USA

The role of aqueous humor in trabecular meshwork homeostasis

11.55 *Elke Lütjen-Drecoll, MD*, Dept. of Anatomy, Erlangen, Germany  
Morphology of POAG

12.10 *Rand Allingham, MD*, Duke University Eye Center, Durham, USA  
Genetics of POAG. From the simple to the complex

12.25 Discussion

12.35 – 14.00 Lunch

14.00 – 15.35 Trabecular Meshwork

14.00 *Ernst Tamm, MD*, Dept. of Anatomy, Regensburg, Germany  
Molecular Control of chamber angle development

14.15 *Daniel Stamer, PhD*, University of Arizona, Tucson, USA  
Cellular basis for cyclic mechanical stress-induced regulation of outflow facility

14.30 *Ian Grierson, PhD*, Univ. Dept. of Medicine, Liverpool, UK  
CLANs in TM cells – a possible adverse event?

14.45 *Douglas Rhee, MD*, Massachusetts Eye & Ear Infirmary, Boston, USA

Matricellular proteins in the trabecular meshwork

15.00 *Beatrice Yue, MD*, University of Illinois, Chicago, USA  
Optineurin – what do we know so far?

15.15 *B'Ann Gabelt, MS*, University of Wisconsin, USA  
Cochlin - association with elevated IOP and glaucoma

15.25 *Darryl R. Overby, PhD*, Imperial College London, UK  
Analysis of segmental flow patterns in trabecular meshwork

15.35 Discussion

15.45 – 16.15 Coffee Break

16.15. – 17.00 Therapy

16.15 *Terete Borras, PhD*, Dept. of Ophthalmology, Univ. of North Carolina, USA

Best targets for trabecular meshwork gene therapy:  
special vectors and inducible promoters

16.30 *David Woodward, PhD*, Biological Sciences, Allergan, Irvine, USA  
Continuous improvement in ocular hypotensive drugs by targeting a single receptor family (P-receptors)

16.45 *Günter Kriegstein, MD*, University Eye Hospital, Köln, Germany  
Is suprachoroidal drainage an option in glaucoma surgery?

17.00 Discussion

Lunch Buffet

*Gottfried O.H. Naumann, MD*, Department of Ophthalmology, University Erlangen-Nürnberg, Erlangen, Germany

The long way to SFB 539

## Saturday, March 7th, 2009

09.00 – 12.15 Retina

09.00 *Anselm Jünemann, MD, Jan Kremers, MD*, Dept. of Ophthalmology, Erlangen, Germany

New electrophysiological and psychophysical technique to study glaucomatous degeneration of the retina

09.10 Discussion

09.20 *Neville Osborne, PhD*, University of Oxford, U.K.  
The effect of stress on ganglion cell mitochondria

09.35 *Cord-Michael Becker, MD*, Department of Biochemistry, Erlangen, Germany

Lipid oxidation

09.45 *Ralf Enz, PhD*, Dept. of Biochemistry, Erlangen, Germany

Synaptic signal complexes

09.55 *Johann Brandstätter, PhD*, Dept. of Ophthalmology, Erlangen, Germany

The adaptive retina

10.05 Discussion

10.15 – 10.45 Coffee Break

10.45 *Charles Riva, DSc*, Dept. of Ophthalmology, University of Bologna, Italy

Retinal and optic neurovascular coupling in the healthy and diseased eye

11.00 *Richard Stone, MD*, University of Pennsylvania, Philadelphia, USA  
Glaucoma, myopia and diurnal eye rhythms

11.15 Discussion

11.25 *Rosario Hernandez, DDS*, North-Western University, Chicago, USA

Morphology of optic nerve changes in POAG

11.40 *Ulrich Welge-Lüben, MD*, Department of Ophthalmology, Erlangen, Germany

Influence of different glaucoma related factors on human astrocytes

11.50 *Ross Ethier, PhD*, Imperial College, London, UK

Effects of scleral properties on human optic nerve head biomechanics: A micro-MRI study

12.05 Discussion

12.15 – 14.00 Lunch

14.00 – 15.30 Future Directions

14.00 *Friedrich Kruse, MD*, Department of Ophthalmology, Erlangen, Germany

Translational research

14.15 *Berthold Lausen, DSc*, Department of Medical Informatics, Biometry and Epidemiology, Erlangen, Germany

Glaucoma classification by longitudinal information

14.25 *M. Francesca Cordeiro, PhD*, Western Eye Hospital, London, U.K.

Glaucoma, DARC & neuroprotection

14.40 *Christian Mardin, MD*, Department of Ophthalmology, Erlangen, Germany

High resolution imaging in glaucoma, how far can we go?

14.50 *Georg Michelson, MD*, Department of Ophthalmology, Erlangen, Germany

Computer-assisted Glaucoma Screening

15.00 *Eberhart Zrenner, MD*, Centre for Ophthalmology, Tübingen, Germany

Chances and limitations of replacing photoreceptors by microphotodiode arrays

15.15 Discussion

End