



OCUTHER ADVANCED COURSES

DATE: 15. – 16.10.2018 & 17.10.2018 WORKSHOP
VENUE: UNIVERSITY OF PADOVA, AULA MIOLATI, VIA LOREDAN 4

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PROGRAMME 15.10.2018

Advanced Ophthalmology

(Coordinator Professor Kai Kaarniranta, UEF)

08.30 – 08.55 Registration

08.55 – 09.00 Intro by Chair

1. Diseases of the retina

09.00 – 09.35 Genetic diseases
Prof. Marius Ueffing, Eberhard Karls University Tuebingen, Germany

09.35 – 10.10 Degenerative diseases
Prof. Kai Kaarniranta, University of Eastern Finland

10.10 – 10.25 Break (15 min)

10.25 – 11.00 Inflammatory diseases
Dr. Miklos Resch, Semmelweis University, Budapest, Hungary

11.00 – 11.35 Glaucoma
Dr. Adrian Smedowski, Medical University of Silesia, Poland

11.35 – 12.10 Diabetes
Prof. Kai Kaarniranta, University of Eastern Finland

12.10 – 12.10 General discussion
Lead by Chair

12.20 – 13.30 Lunch

2. Disease models emphasizing translational aspects

13.30 – 14.05 Animal Models
Dr. Szabolcs Felszheggy, University of Eastern Finland

14.05 - 14.25 Tissue explant models
Dr. Adrian Smedowski, Medical University of Silesia, Poland

14.25 – 15.00 Cell, iPS and stem cell models
Dr. Mika Reinisalo, University of Eastern Finland

15.00 - 15.15 Break (15 min)

3. Technologies in human and animal studies

- 15.15 – 16.00 Applications of optical coherence, tomography OCT:
- macula, neural retina, optic nerve, animal
Prof. Kai Kaarniranta, University of Eastern Finland & Dr. Adrian Smedowski, Medical University of Silesia, Poland
- 16.00 - 16.20 Electroretinography ERG
Dr. Toni Tamminen, University of Eastern Finland
- 16.20 – 16.30 General discussion + session close
Lead by Chair

- 19.00** **Working Dinner**
(Discussions between ESR's in small groups)

PROGRAMME 16.10.2018

Advanced Drug Discovery and Development (Coordinator Professor Paavo Honkakoski, UEF)

- 08.30 – 08.55 Registration
- 08.55 – 09.00 Intro by Chair

1. Discovery and drug targets

- 09.00 – 09.20 Anti-VEGF agents
Prof. Kai Kaarniranta, University of Eastern Finland
- 09.20 – 09.40 Antibiotics
Dr. Miklos Resch, Semmelweis University, Budapest, Hungary
- 09.40 – 10.00 Corticosteroids
Dr. Adrian Smedowski, Medical University of Silesia, Poland
- 10.00 – 10.20 Glaucoma drugs
Dr. Adrian Smedowski, Medical University of Silesia, Poland
- 10.20 – 10.40 Anti-complement drugs
Prof. Kai Kaarniranta, University of Eastern Finland

- 10.40 – 11.00** **Break (20 min)**
- 11.00 – 11.30 Novel therapies (AOC3 inhibitors etc.)
Dr. Jürgen Prestle, Boehringer-Ingelheim Pharma GmbH Co. KG
- 11.30 – 12.30 Discussion of the current status and future of ocular therapy
Lead by Chair
- 12.30 – 13.30** **Lunch**

2. Delivery systems

- 13.30 – 14.00 Delivery systems and routes
Prof. Arto Urtti, University of Eastern Finland
- 14.00 – 14.30 ADME/PK – barriers and determinants
Prof. Arto Urtti, University of Eastern Finland
- 14.30 – 15.00 Controlled release – company perspective
Dr. Mika Jokinen, DeSiTech
- 15.00 – 15.20 Targeting technologies
Dr. Astrid Subrizi, iNANO at Aarhus University, Denmark
- 15.20 – 15.30 General Discussion
Lead by Chair
- 15.30 – 15.50** **Break (20 min)**

3. Societal aspects

- 15.50 – 16.10 Patient perspectives for ocular drug development
Christina Fasser, Retina International
- 16.10 – 16.30 Communication with the media
Christina Fasser, Retina International
- 16.30 – 16.40 Description of homework and session close
Chair

- 19.00** **Working Dinner**
(Discussions between ESR's in small groups)

PROGRAMME 17.10.2018

09.00 – 10.00 First Periodic Report – Guidelines and Instructions
Karin Koivisto, University of Eastern Finland

Workshops on ESR secondments, collaboration and education

10.00 – 10.05 Opening and goals of the day
Prof. Paavo Honkakoski, University of Eastern Finland

10.05 – 11.15 **Group work: secondment planning and collaboration**

GROUP WORK #1

TOXICITY OF PARTICLES

Strasbourg (Daniel), Belfast (Miao), OZB (Marco)

AMD studies

Kuopio (Raja), Belfast (Stephen)

CONTROLLED PROTEIN DELIVERY

Tübingen (Ada), Utrecht (Blessing)

KINETIC IN VIVO TESTING OF DELIVERY SYSTEMS

Kuopio (Amir), Utrecht (Charis), Eindhoven (Chiara), Padova (Eva)

ADME

Kuopio (Anam), SimCYP (Anam)

FORMULATION OF VCP INHIBITORS

Tubingen (Merve), Padova (Al-Amin)

11.15 – 12.15 Lunch

12.15 – 13.45 Visit to the University of Padova

13.45 – 15.15 **Group work: secondment planning and collaboration**

GROUP WORK #2

OCULAR PHARMACOKINETICS (UEF, SimCYP)

PRECLINICAL MODELS FOR WET AND DRY AMD (BELFAST, UEF)

PRECLINICAL MODELS FOR RETINAL DEGENERATIONS (BELFAST, UEF)

DRUG FORMULATION IN LIPID SYSTEMS (PADOVA, OZB)

DRUG FORMULATION IN POLYMER SYSTEMS (UTRECHT, EINDHOVEN)

- 15.15 – 15.30 Survey on PhD education
- 15.30 – 15.45 Discussion and meeting closure
Prof. Arto Urtti, University of Eastern Finland
- 15.45 Farewell coffee**
- 16.00 OcuTher Management Team meeting
(QUB, UU, UEF & ESR representatives)