



European Glaucoma Society
Innovation, Education, Communication, Implementation



**AMERICAN
GLAUCOMA
SOCIETY**

2019 Bordeaux

**Joint EGS/AGS
Members' Meeting**
30-31 August 2019

PROGRAMME



Faculty

- Ryan Amelon**, PhD, IDX Technologies, Coralville - USA
Konstantinos Balaskas, MD, Moorfields Eye Hospital, London - United Kingdom
Alain Bron, MD, PhD, Centre Hospitalier Universitaire de Dijon, Dijon - France
Claude F. Burgoyne, MD, Devers Eye Institute, Portland - USA
Kevin C. Chan, PhD, NYU School of Medicine (NYU Langone Health), New York - USA
Balwantray Chauhan, PhD, Dalhousie University, Halifax - Canada
Jonathan Crowston, MD, PhD, University of Melbourne, Melbourne - Australia - Duke, National University of Singapore, Singapore- Singapore
Emmanouil Dermitzakis, PhD, University of Geneva, Geneva - Switzerland
Vincent Diebolt, PhD, F-CRIN, Toulouse - France
David Garway-Heath, MD, Moorfields Eye Hospital, London - United Kingdom
Michael Girard, PhD, National University of Singapore, Singapore- Singapore
Jeffrey Goldberg, MD, PhD, Byers Eye Institute at Stanford University, Palo Alto - USA
David Gruson, PhD, Chaire Santé de Sciences PO, Paris - France
Pirro Hysi, MD, PhD, King's College, London - United Kingdom
Anthony Khawaja, MD, PhD, Moorfields Eye Hospital, London - United Kingdom
Leonard Levin, MD, PhD, McGill University, Montreal - Canada
Jeffrey M. Liebmann, MD, Columbia University Medical Center, New York - USA
Marco Lorenzi, PhD, INRIA - National Institute for Research in Computer Science and Automation - France
Felipe Medeiros, MD, PhD, Duke University, Durham - USA
Michel Pâques, MD, PhD, CHNO de Quinze-Vingts Hospital, Paris - France
Leopold Schmetterer, PhD, Singapore Eye Research Institute, Singapore - Singapore
Cedric Schweitzer, MD, PhD, Centre Hospitalier Universitaire de Bordeaux, Bordeaux - France
Kuldev Singh, MD, MPH, Hills Byers Eye Institute at Stanford University, Los Altos - USA
Ingeborg Stalmans, MD, PhD, Catholic University of Leuven, Leuven - Belgium
Joshua Stein, MD, University of Michigan, Ann Arbor - USA
Peter Thomas, MD, PhD, Moorfields Eye Hospital, London - United Kingdom
Fotis Topouzis, MD, PhD, Aristotle University of Thessaloniki - Ahepa Hospital, Thessaloniki - Greece
Anja Tuulonen, MD, PhD, Tays Eye Centre, Tampere University Hospital, Tampere - Finland
Ananth C. Viswanathan, MD, PhD, Moorfields Eye Hospital, London - United Kingdom
Janey L. Wiggs, MD, PhD, Massachusetts Eye and Ear Howe Laboratory, Boston - USA



08:15 Welcome and meeting objectives
08:20 **David Garway-Heath, Kuldev Singh**

Insights into Glaucoma Pathogenesis through New Diagnostic Methods

08:20 Introduction and objectives of the day
08:30 **David Garway-Heath**

08:30 Plenary session 1: Imaging the visual pathway
10:20 Moderators: **David Garway-Heath, Felipe Medeiros**

08:30 The architecture of the back of the eye: static biomechanics of the ONH
Claude Burgoyne

08:45 *Discussion*

08:50 The moving eye: dynamic biomechanics of the optic disc/peripapillary tissues
Michael Girard

09:05 *Discussion*

09:10 Retinal changes in glaucoma. 11 layer segmentation of OCT images
Leopold Schmetterer

09:25 *Discussion*

09:30 Can we image RGCs to understand and quantify the rate of glaucomatous loss?
Balwantray Chauhan

09:45 *Discussion*

09:50 Round table

10.20 *Coffee break*



Insights into Glaucoma Pathogenesis through New Diagnostic Methods

- 10:40** Plenary session 2: Imaging the vascular and neuronal compartments
12:50 Moderators: **Jeffrey Liebmann, Ingeborg Stalmans**
- 10:40** What does angio-OCT tell us about glaucoma pathophysiology?
Felipe Medeiros
- 10:55** *Discussion*
- 11:00** Investigating the retinal vasomotricity with adaptive optics ophthalmoscopy
Michel Pâques
- 11:15** *Discussion*
- 11:20** Can structural CNS explorations help us to understand glaucoma?
Leonard Levin
- 11:35** *Discussion*
- 11:40** In vivo imaging of metabolic and functional brain changes in glaucoma
Kevin Chan
- 11:55** *Discussion*
- 12:00** Steady-state VEP for ON/OFF pathway RGCs in glaucoma
Jeffrey Goldberg
- 12:15** *Discussion*
- 12:20** Round table
- 13:00** *Lunch*
14:00





Insights into Glaucoma Pathogenesis through New Diagnostic Methods

- 14:00 Plenary session 3: Genes and gene expression
- 15:50 Moderators: **Anthony Khawaja, Janey Wiggs**
- 14:00 Recent advances in analysing the human genome
Emmanouil Dermitzakis
- 14:15 *Discussion*
- 14:20 Genetic risk factors
Janey Wiggs
- 14:35 *Discussion*
- 14:40 Mitochondrial dysfunction
Jonathan Crowston
- 14:55 *Discussion*
- 15:00 "Glaucomics": new biomarkers for screening?
Pirro Hysi
- 15:15 *Discussion*
- 15:20 Round table

- 15:50 *Coffee break*

30 August 2019



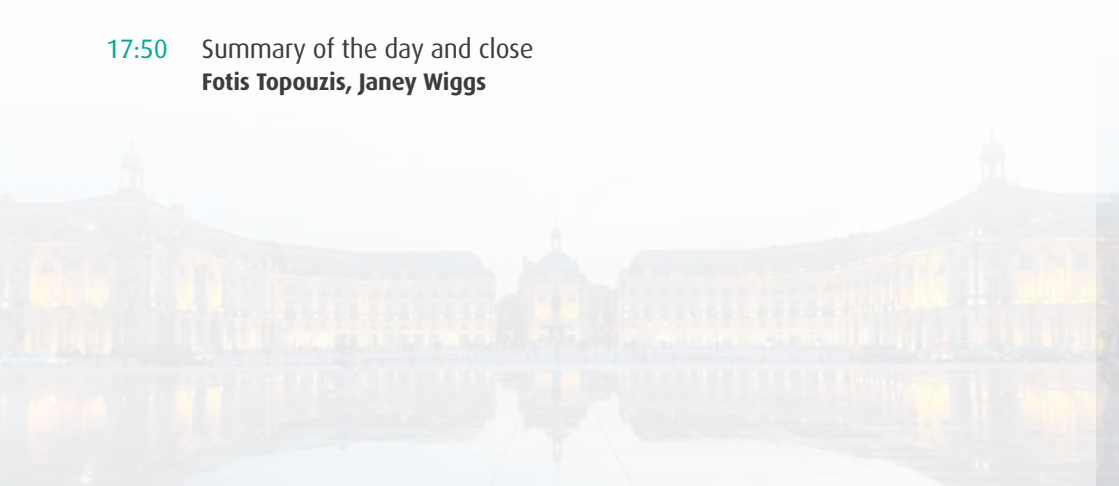


Joint EGS/AGS Members' Meeting
30-31 August 2019

Insights into Glaucoma Pathogenesis through New Diagnostic Methods

- 16:20** Plenary session 4: A dive into precision medicine
17:50 Moderators: **Fotis Topouzis, Kuldev Singh**
- 16:20** Do vascular susceptibility factors define a phenotypic difference?
Jeffrey Liebmann
- 16:35** *Discussion*
- 16:40** Does the heterogeneity of genetic susceptibility factors lead to phenotypic differences?
Anthony Khawaja
- 16:55** *Discussion*
- 17:00** Optic disk appearance and genetic background
Ananth Viswanathan
- 17:15** *Discussion*
- 17:20** Round table
-
- 17:50** Summary of the day and close
Fotis Topouzis, Janey Wiggs

30 August 2019





Transforming Glaucoma Care: Power and Pitfalls of Artificial Intelligence

09:00 Welcome and meeting objectives

09:05 **Anja Tuulonen**

09:05 Plenary session 5: Artificial intelligence: the next frontier

10:35 Moderators: **Alain Bron, Leopold Schmetterer**

09:05 What is Artificial Intelligence and what are potential applications in medicine?

Marco Lorenzi

09:20 *Discussion*

09:25 What do we need to do to pave the way for Artificial Intelligence?

Konstantinos Balaskas

09:40 *Discussion*

09:45 Building an algorithm for glaucoma screening

Ryan Amelon

10:00 *Discussion*

10:05 Round table

10:35 *Coffee break*

31 August 2019





Transforming Glaucoma Care: Power and Pitfalls of Artificial Intelligence

- 11:00** Plenary session 6: Artificial intelligence: expectations and limits
13:00 Moderators: **Leonard Levin, Cédric Schweitzer**
- 11:00** The power of Artificial Intelligence to transform clinical trials
Vincent Diebolt
- 11:15** *Discussion*
- 11:20** Artificial Intelligence: pitfalls, ethical aspects, confidentiality, patients perspective
David Gruson
- 11:35** *Discussion*
- 11:40** Planning ahead: how to keep up with advancing Artificial Intelligence
Peter Thomas
- 11:55** *Discussion*
- 12:00** Career and skill planning for glaucoma specialists in the era of Artificial Intelligence
Joshua Stein
- 12:15** *Discussion*
- 12:20** Round table
- 12:50** Summary of meeting and close
David Garway-Heath, Kuldev Singh
- 13:00** *Lunch*





Joint EGS/AGS Members' Meeting
30-31 August 2019

General Information

Meeting Venue

Palais de la Bourse
17 Place de la Bourse - 33076 Bordeaux, France
Tel. 0033 0556795095

Registration Desk Opening Times

The Registration Desk is open in the following hours:
Friday 30 August 07.15-18.00
Saturday 31 August 08.00-14.00

Badge and Certificate of Attendance

Delegates are kindly requested to wear their badge at the Congress Venue and during the Welcome Cocktail on Thursday 29 August. The Certificate of Attendance will be provided to all delegates.

Language

The official language of the first joint EGS/AGS Members' Meeting is English. All participants are encouraged to join discussions, independently of their fluency in English, as the exchange of ideas and critical evaluation of presentations is the main purpose of the Course.

Meeting App

To participate in the course you will need to download the meeting APP. Login is quick and easy! Open the APP and enter your Access Code, received by email. If you do not remember your access code, click on Recover your password and type the email used during registration. You will receive an email with your new access code. Please note that all evaluations requested in the surveys will always be confidential and anonymous.

Photo


Please, note that during the JOINT EGS-AGS MEMBERS' MEETING photos and videos will be taken. Images could be uploaded on the event's websites or EGS's and/or OIC's communication channels in order to prove and show the success of the meeting in terms of participation, until the next edition.

Organizing Secretariat

OIC Srl



Viale Giacomo Matteotti, 7 - 50121 Florence, Italy
Tel. +39 055 50351 - Fax +39 055 5001912
www.oic.it - info@oic.it - www.egsags2019.org

OIC Srl is a MedTech Trusted Partner 



Joint EGS/AGS Members' Meeting
30-31 August 2019

Social Events

29 August

Welcome Cocktail

Time: 18.00

Venue: Palais de la Bourse

30 August

Gala Dinner

Time: 20.00

Venue: Le Château Labottière, 16 rue de Tivoli, Bordeaux

Meeting Point: 19.30 Palais de la Bourse

31 August

After the meeting delegates will have the chance to spend a full afternoon enjoying the beauties of Bordeaux. We will start with a guided walking tour of Bordeaux main attractions. At the end of the walking tour we will reach the Cité du Vin for a "full immersion" visit to a real "temple of wines". The evening will end with a pleasant dinner at the le Familia - Brasserie des Halles.

Bordeaux: Walking tour

Discover Bordeaux with a private walking tour of the main attractions.

Time: 15.30

Meeting point: Palais de la Bourse

Cité du Vin

Time: 17.30

Meeting point: 17.30 Palais de la Bourse.

Departure with private transfer at the end of the walking tour and visit of a unique venue for culture and recreation where wine comes to life through an immersive, sensorial approach, all set within an evocative architectural design. La Cité du Vin gives a different view of wine, across the world, across the ages, across all cultures and all civilizations.

Les Halles de Bacalan

Time: 20.00

Meeting point: the Restaurant is located just in front of the Cité du Vin.

The market kitchen at Le Familia - Brasserie des Halles is a popular new chic gourmet brasserie in Les Halles de Bacalan, in memory of the bar/restaurant/cinema of the same name which thrived in the district's golden era from 1929 to 1972.





Notes



European Glaucoma Society
Innovation, Education, Communication, Implementation



**AMERICAN
GLAUCOMA
SOCIETY**