



International Center
for Scientific Debate
BARCELONA



FIGHTING BLINDNESS

FUTURE CHALLENGES AND OPPORTUNITIES
FOR VISUAL RESTORATION

Tuesday, September 6th, 2016

PROGRAM

CAIXAFORUM, AVGDA. FRANCESC FERRER I GUÀRDIA 6-8, BARCELONA

- 8:45** **Registration**
- 9:00** **Welcome**
- 9:20** **SESSION 1: MOLECULAR PATHOLOGY AND BIOMARKERS IN AGE-RELATED MACULAR DEGENERATION (AMD)**
Chairs: **Marco Zarbin** (New Jersey Medical School, USA), **Jayakrishna Ambati** (University of Virginia, USA)
- 9:20** **Macular degeneration. Where we are in clinical practice**
Jordi Monés (BMF, Barcelona)
- 9:40** **Anti PDGF therapy for exudative AMD: addressing the fibrosis pathway**
Samir Patel (Ophthotech, USA)
- 9:55** **Markers and Mechanisms in Maculopathies: a systems view**
Marius Ueffing (Institute for Ophthalmic Research, Germany)
- 10:20** **Towards a systems-oriented view of the molecular pathology of AMD**
Christina Kiel (CRG, Barcelona)
- 10:35** **Cellular response associated to retinal diseases and therapeutics approaches**
Nicolas Cuenca (Alicante University, Alicante)
- 10:50** **KEYNOTE SPEAKER: A molecular road to a therapy for Dry AMD**
Jayakrishna Ambati (University of Virginia, USA)
- 11:15** **Open debate**
- 11:35** **Coffee break**

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12:00 SESSION 2: NANOTECHNOLOGY

Chairs: **Jose Luis Pedraz** (University of the Basque Country, Vitoria), **Joan Parra** (LEITAT Foundation, Barcelona)

12:00 Medical Nanochemistry, the use of reactive inorganic nanoparticles in medicine
Victor Puntès (ICN2, Barcelona)

12:20 Non-viral gene delivery for the treatment of inherited retinal disorders
Gustavo Puras Ochoa (University of the Basque Country, Vitoria)

12:35 Retinal degenerations: Animal models and new therapeutical approaches
Gema Martínez Navarrete (Miguel Hernandez University, Elche)

12:50 Open debate

13:10 Poster session & discussion

13:40 Lunch

14:40 SESSION 3: GENETICS AND GENE THERAPY

Chairs: **Eduardo Fernández** (Miguel Hernández University, Alicante)

14:40 Genetics of AMD: Current status
Caroline Klaver (Erasmus University, Netherlands)

15:00 Role of Mitochondrial Genetics in AMD
Baruch Kupperman (University of California, USA)

15:20 Gene therapy in retinal degenerative diseases, looking for therapeutic targets for dry AMD.
Francisco Díaz Corrales (CABIMER, Sevilla)

15:40 Open debate

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16:00 SESSION 4: PHOTONICS AND IMAGING

Chairs: **Jordi Monés** (BMF), **Samir Patel** (Ophthotech, USA)

16:00 The use of advanced microscopy techniques for ophthalmological applications

Pablo Loza (ICFO, Barcelona)

16:15 High resolution retinal imaging: the case of LITE project

David Merino (ICFO, Barcelona)

16:30 From taking a PEEK to wide-field imaging: how imaging best serves translational research?

Tunde Peto (Moorfields Eye Hospital NHS Foundation Trust, UK)

16:45 Open debate

17:00 Coffee break

17:30 SESSION 5: OPTOGENETICS AND ARTIFICIAL VISION

Chairs: **Nicolas Cuenca** (Alicante University, Alicante), **Marius Ueffing** (Institute for Ophthalmic Research, Germany)

17:30 Visual neuroprosthesis: Current status and future prospects

Eduardo Fernández (Miguel Hernández University, Alicante)

17:50 KEYNOTE SPEAKER: OPTOGENETICS

Marco Zarbin (New Jersey Medical School, USA)

18:25 Open debate

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8:30 SESSION 6: REGENERATIVE THERAPY. STEM CELLS

Chairs: **Anna Veiga** (CMRB, Barcelona)

8:30 Advanced cell therapies for AMD

Berta de la Cerda Haynes (CABIMER, Sevilla)

8:50 Pluripotent stem cells for retinal disease, research and clinical application

Anna Veiga (CMRB, Barcelona)

9:10 Use of induced pluripotent stem cells and direct lineage reprogramming in cell therapy for eye regenerative medicine

Ana Belen Alvarez (UB, Barcelona)

9:30 Improving the quality and characterisation of stem cell reprogramming and analysing the genomic stability and immune response

Michael Edel (UB, Barcelona)

9:50 Adult progenitor stem cells: applications for cell-based therapy in degenerative retinal diseases

Ricardo Casaroli (Hospital Clínic of Barcelona, Barcelona)

10:10 Retinal regeneration via cell fusion mediated reprogramming

Pia Cosma (CRG, Barcelona)

10:30 Open debate

10:50 Poster session and coffee break

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- 11:30** **SESSION 7: ROUND TABLE. FROM BENCH TO BEDSIDE**
Chairs: **Joan Parra** (LEITAT Foundation, Barcelona)
- 11:30** **Market Driven Technology Transfer**
Xavier Rubies (IBEC, Barcelona)
- 11:45** **Innovative schemes though demand-driven procurement for procuring early detection services: the case of the PRO4VIP**
Ramon Maspons (AQUAS, Generalitat de Catalunya, Barcelona)
- 12:00** **Technology transfer**
Joan Parra (LEITAT Foundation, Barcelona)
- 12:15** **KEYNOTE SPEAKER: HIV brought us to Microbiome study**
Bonaventura Clotet (IrsiCaixa, Badalona)
- 12:45** **Open discussion**
- 13:10** **Concluding remarks**
Joan Parra (LEITAT Foundation, Barcelona)
Jordi Monés (BMF, Barcelona)

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