

SYMPOSIUM [M]

de recherche du 175^e anniversaire

11 octobre 2018



**Hôpital ophtalmique
Jules-Gonin**
Service universitaire d'ophtalmologie
Fondation Asile des aveugles

Unil

UNIL | Université de Lausanne



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Edito

This symposium will present state-of-the-art of the translational research in ophthalmology. The first part will be dedicated to genetic of inherited retinal dystrophies and the importance to maintain a patient register. Speakers will next describe different cellular pathways involved in retinal degenerations such as AMD, dystrophies, and uveitis, as well as epigenetic alterations in retinal dystrophies and uveal melanoma. The development of new technologies to better access the retina and to visualize in vivo the retina with a cellular resolution will be presented. Finally, the program ends with a session dedicated to new therapies with an emphasis on drug, gene and cell delivery.

Comité organisateur

Prof. Yvan Arsenijevic

Dr Olivier Lorentz

Dre Irmela Mantel

Dr Alexandre Moulin

Prof. Reinier Schlingemann

Prof. Thomas J. Wolfensberger

Avec la participation de :



Programme du jeudi 11 octobre

08h15 - 08h45

Welcome Coffee

08h45 - 09h00

Introduction

Yvan Arsenijevic, Reinier Schlingemann, Thomas J. Wolfensberger

09:00-10:05 How to deal with gene defect?

Moderator : Christian Grimm

09h00 - 09h25

(Patho-)Genesis of inherited cone dysfunctions

Bernd Wissinger, University of Tübingen

09h25 - 09h45

Non-Mendelian inheritance in retinal degenerations

Carlo Rivolta, University of Lausanne / University of Leicester

09h45 - 10h05

Molecular diagnostics in the era of clinical genomics : building national registries

Pascal Escher, University of Bern

10h05 - 10h30

Coffee Break

10:30-12:05 Disease mechanisms I

Moderator : Reinier Schlingemann

10h30 - 10h40

General introduction

Reinier Schlingemann, Fondation Asile des Aveugles / University of Lausanne / University of Amsterdam

10h40 - 11h05

The hypoxia challenge, a risk for AMD ?

Christian Grimm, University of Zürich

11h05 - 11h20

Role of GSH in retinal diseases

Raphaël Roduit, Fondation Asile des Aveugles / University of Lausanne

11h20 - 11h35

Novel target mechanisms in uveitis

Yan Guex-Crosier, Fondation Asile des Aveugles / University of Lausanne

11h35 - 11h50 **Other than VEGF in neovascular AMD**
Irmela Mantel, Fondation Asile des Aveugles / University of Lausanne

11h50 - 12h05 **Biomarkers and new treatments for AMD**
Chiara Eandi, Fondation Asile des Aveugles / University of Lausanne

12h05 - 13h20 *Lunch*

13:20-14:25 Disease mechanisms II

Moderator : Pascal Escher

13h20 - 13h35 **Epigenetic modifications during retinal dystrophies: narrowing the therapeutic targets**
Yvan Arsenijevic, Fondation Asile des Aveugles / University of Lausanne

13h35 - 14h00 **BAP1 modulates the epigenetic landscape of uveal melanoma**
Nicolo Riggi, University of Lausanne et Alexandre Moulin, Fondation Asile des Aveugles / University of Lausanne

14h00 - 14h25 **Use of phenotypic screening to identify candidate molecules for the treatment of glaucoma and the retinal degenerations**
Don Zack, Johns Hopkins University School of Medicine, Baltimore, USA

14:25-15h15 New technologies

Moderator : Irmela Mantel

14h25 - 14h45 **Oblique illumination to visualize retinal cells**
Christophe Moser & Laura Kowalczyk, EPFL & Fondation Asile des aveugles / University of Lausanne

14h45 - 15h00 **The artificial cornea**
Aleksandra Petrovic, Fondation Asile des Aveugles / University of Lausanne

15h00 - 15h15 **Robotics and the eye**
Thomas J. Wolfensberger, Fondation Asile des Aveugles / University of Lausanne

15h15 - 15h45

Coffee Break

15:45-17:40 Drug, gene and cell therapies

Moderator : Peter Humphries

15h45 - 16h10

On experimental molecular therapies targeting retinal degenerations and ocular hypertension

Peter Humphries, University of Dublin

16h10 - 16h35

High sensitivity optogenetic to restore vision

Sonja Kleinlogel, University of Bern

16h35 - 16h50

Retinal gene therapy, a long-term endeavor to success

Corinne Kostic, Fondation Asile des Aveugles / University of Lausanne

16h50 - 17h15

Preclinical validation of a tissue engineered product consisting in RPE derived from human embryonic stem cells disposed on human amniotic membrane

Christelle Monville, INSERM / University of Paris

17h15 - 17h40

Emerging therapies for inherited retinal degeneration

Hendrik Scholl, University of Basel

17h40 - 17h45

Conclusion

18h00

Aperitif

Notes

