

FIRST AUTUMN COURSE ON ADAPTIVE OPTICS RETINAL IMAGING

October 8 & 9, 2018 — Paris, France



Organizers

Prof Michel Paques
Dr Kate Grieve
Dr Serge Meimon
Dr Michael Atlan

> [Click here to access the online registration](#)



High resolution imaging technologies, exemplified by adaptive optics imaging, are progressively transferring from the lab to the clinics. This is an opportunity to better understand retinal diseases, to optimize their management but also to provide novel biomarkers for other medical specialties. However, there is still an unmet need in the field of clinical interpretation of AO images, and more importantly in the integration of AO into clinical practice.

The goal of this course is to train ophthalmologists, physicists and technicians in the use and interpretation of AO imaging, with a strong emphasis on practical issues. This course will comprise basic knowledge on high resolution optical imaging and then describe a wide variety of normal and pathological retinal images as observed with the rtx1 camera, the only commercially available AO camera. Attendees may bring their own cases for collective discussion at the end of the session (please advise us in advance since time slots may be limited). The second day will be devoted to training sessions with patients at the Quinze-Vingts hospital; this second day will be restricted to 20 persons (specific registration required).

Day 1 – October, 8

Clinical applications of adaptive optics ophthalmoscopy

Institut Langevin, lobby level, 1 rue Jussieu, 75005 Paris

08:30 - 09:00 - Welcome coffee

Session 1 : High resolution retinal imaging: present and future – Chair: Kate Grieve

Structural imaging

Adaptive optics: flood versus scanning
High speed AO and structural illumination
Ganglion cells and RPE imaging
Image processing and analysis

K. Grieve, Paris
S. Meimon, Paris
E. Rossi, Pittsburgh
F. Rossant, Paris

Blood flow

Holography
Laser Doppler with the rtx1

M. Atlan, Paris
C. Chiquet, Grenoble; M. Geiser, EPFLausanne



Session 2 : The normal retina seen by adaptive optics ophthalmoscopy– Chair: Michel Paques

The rtx1 camera : what you need to know first

Technical presentation
Real life use, protocols, tips & tricks

N. Chateau, Imagine Eyes
M. Paques, Paris

What is a normal AOO image

Basic interpretation of photoreceptor imaging
Counting photoreceptors

K. Grieve, Paris
J. Jacob, Belgium
R. Legras, Orsay

Basic interpretation of vessel imaging
What are Gunn's dots?

M. Paques, Paris
M. Paques, Paris

12:45 - 14:00 – Lunch

Session 3 : AOO of the pathological retina – Chair: Michel Paques

Dry age-related macular degeneration

S. Mrejen, M Paques, Paris

Photoreceptor diseases: beyond counting PRs

Retinal dystrophies
Photoreceptor misalignment

K. Gocho, Tokyo
K. Stingl, Tübingen
M. Paques

Microvessels: a window to general diseases

Arterial hypertension

M. Larsen; Copenhagen

A. Gallo, Paris

Diabetes, arteriolosclerosis

M. Paques

Inflammation

M-H Errera, Pittsburgh

Amyloidosis

A. Rousseau, Paris

Radiation retinopathy

S. Tick, Paris

CADASIL

V. Krivosic, Paris

Surgical diseases: ERM, RD, MH

M. Paques, Paris



SESSION 4: Case presentations – Chair: Katarina Stingl

Expected speakers : C. Arndt, C. Faure, J. Hugo, M. Kempf

18 :00 – End of day 1

Day 2 – October, 9 Practical training on the rtx1

Quinze-Vingts Hospital (main building, 4th floor), 28 rue de Charenton 75012 Paris

Two successive practical sessions will be held for two groups of 10 persons, during which demonstrations of the rtx1 camera will be done in controls and in patients. Participants will have the possibility to perform examination on each other, during which the various structures observable by adaptive optics ophthalmoscopy will be commented.

Participants are also encouraged to bring their own clinical cases for informal case discussions. Presentation of other high resolution imaging systems will also be done. As the number of participants is limited, please indicate at the time of registration if you are willing to participate.

08:30 - 09:00 - Welcome coffee

09:00 – First session

11:00 – Second session

With the participation of Michel Paques, Kate Grieve, Céline Chaumette, Michael Atlan, Serge Meimon

18 :00 – End of day 2

Information

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Online registration

F-CRIN website : <http://www.fcrin.org/formation/formation-inscription-gipse>

The training course is provided by the Health Education Group of Public Interest, an approved training organisation
Registration official number: 73310701131 | SIRET: 130 018 195 000 11.

Prices

Orthoptists/optometry and physicists
Ophthalmologists
Private sector
Other

Day 1

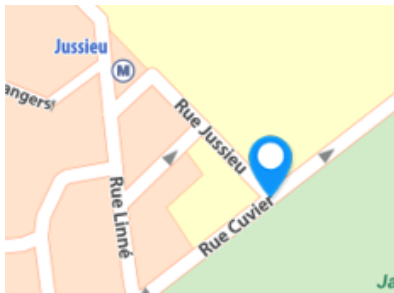
75 €
150 €
250 €
75 €

Day 1 + Day 2

105 €
180 €
280 €
150 €

Access

Day 1 – October, 8



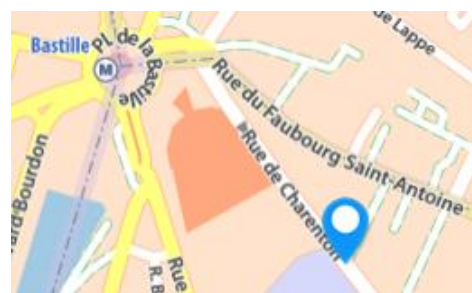
Address

Institut Langevin
lobby level
1 rue Jussieu
75005 Paris

Metro

Metro station Jussieu lines 7 or 10

Day 2 – October, 9



Address

Quinze-Vingts Hospital
(main building, 4th floor)
28 rue de Charenton
75012 Paris

Metro

Metro Bastille lines 1, 5, 8

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