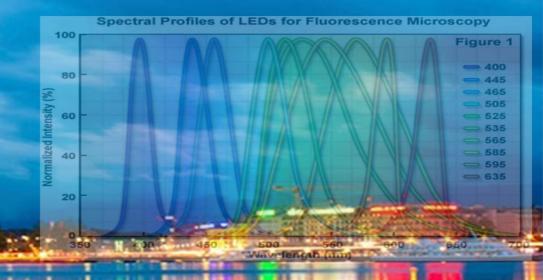
WELCOME TO THE 4TH SWISS BIOIMAGING MEETING!

















Free Wifi Network: guest-unige

To use this service:

- Connect your mobile device to the SSID 'guest-unige';
- Make sure your browser accepts pop-up windows and javascript to run;
- In your browser doing an HTTP / HTTPS request to any URL (eg the University website: http://www.unige.ch);
- Your request will be intercepted, and you will be directed to an e-portal where you can register and authenticate.





Free Wifi Network: guest-unige



On the following page, clic on the «connect» button



You will receive <u>a code via SMS</u>, you need to enter on the next screen and click
The «login» button

LIGHT SHEET MICROSCOPY

MESOSCOPIC IMAGING TECHNIQUE

MULTIPHOTON MICROSCOPY

MULTIPHOTON TOMOGRAPHY

PLATE SCANNER

BIOLUMINESCENCE AND INTRAVITAL IMAGING

CONFOCAL LASER SCANNING MICROSCOPY (CLSM)

CONFOCAL SPINNING DISK MICROSCOPY (NIPKOW)

EVANESCENT WAVE MICROSCOPY (TIRF)

FLUORESCENCE CORRELATION SPECTROSCOPY (FCS)

HIGH CONTENT SCREENING (HCS)

SLIDE SCANNER

SUPER RESOLUTION MICROSCOPY

WIDEFIELD MICROSCOPY

LASER CAPTURE

TRANSMISSION ELECTRON MICROSCOPY (TEM)

SCANNING ELECTRON MICROSCOPY (SEM)





http://www.swissbioimaging.org/

Swiss Bioimaging Platforms: The Geneva case

Bioimaging Center (Faculty of Science)



2.5 dedicated personnel

Looking for: A (cryo)-TEM specialist

317 different users from 95 different groups

14 systems (Confocal, STED, widefield, TEM, SEM) Plus **4 PC workplaces** with imaging software

≈ 14'000 hours of use

Research and expertise in bioluminescence and chemoluminescence microscopy

Bioimaging Core Facility (Faculty of Medicine)



2.2 dedicated personnel

(+1 in November)

352 different users from 98 different groups

16 systems (Confocal, widefield, scanners, LMD)

- 16'768 hours of use -

8 PC workstations

(Amira, Imaris, MetaMorph, Definiens, Huygens, Matlab, etc..)

- 4'328 hours of use -

(Period: oct. 2015- sept.2016)

Swiss Bioimaging Meetings

2013

Facility for Advanced Imaging & Microscopy, FMI

- CLEM *
- Super- Resolution Microscopy *
 - IRIS reservation system *
- High-throughput image analysis *
 - Visit of the platform *

Basel

Bern

Fribourg

2015

ScopeM, ETH

- Data handling & data storage *
 - **CMOS** imaging *
- Image processing challenges *
 - Visit of the platform *

Lausanne

Geneva

2014

Cellular Imaging Facility (CIF), UNIL

Zurich

- **Light Sheet Microscopy ***
 - CLEM *
 - FIB/SEM *
 - Visit of the platform *

2016

Bioimaging Center & Bioimaging Core Facility, UNIGE

4th Swiss Bioimaging Core Facility Day Program



```
9:30 - 10:00 Get together, coffee
10:00 - 10:30 Welcome & Introduction
10:30–11:00 Thomas Wagner (Photometrics).
                      Backside Illuminated sCMOS Camera with 95 Percent Quantum Efficiency
11:00–11:15 Open questions & Discussion
11:15–11:45 Paul Guichard (Unige).
                      Cryo-electron microscopy
11:45–12:00 Open questions & Discussion
12:00-13:30 Sandwich lunch
13:30–13:45 Introductive remarks
13:45-14:15 Daniel SAGE (EPFL)
                      Context of bioimaging informatics, ImageJ plugins, Deconvolution, tracking
14:15–14:30 Virginie UHLMANN (PhD student, EPFL)
                      Active contour, segmentation
14:30–14:45 Laurène DONATI (PhD student, EPFL)
                      Inverse problems for digital optics
14:45-15:15 Coffee break
15:15–15:45 Georg Draude (Chroma)
                      Optical filters for advanced microscopy
15:45–16:00 Ury Belyaev (Bern Univ.)
                      Development of a cloud Huygens Remote Manager (HRM) deconvolution service
```



17:30 – 19:30 Social Event: "Cocktail dinatoire" at the Domaine de Penthes (http://www.penthes.ch/)

16:00 – 16:45 Round table about future plans. Closing Remarks



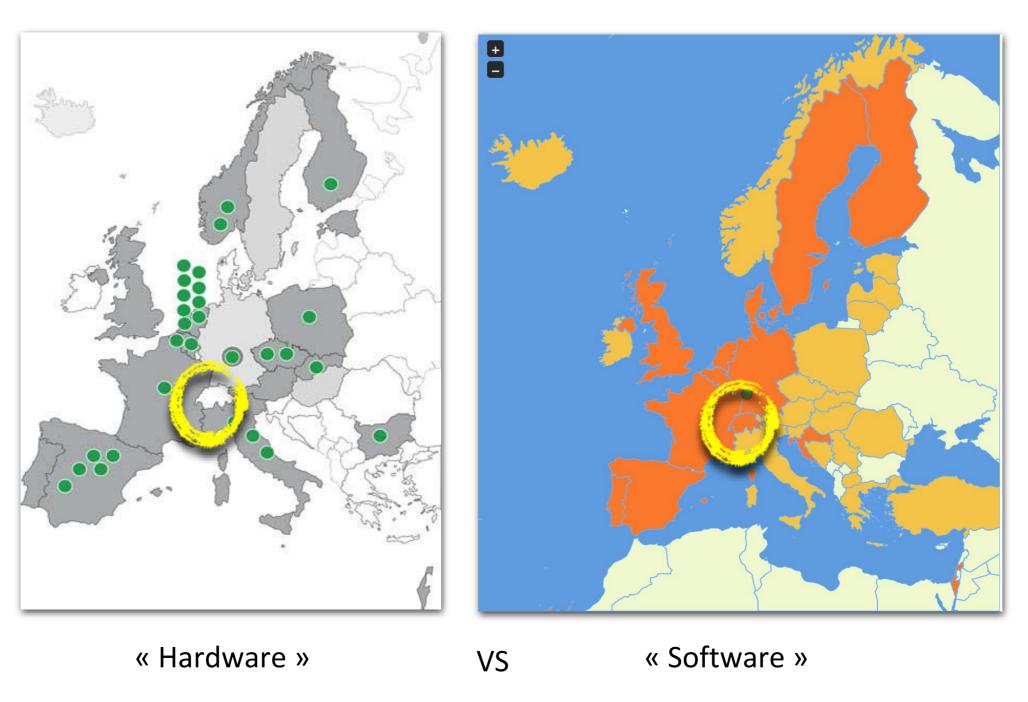
- To share expertises about cutting-edge technologies
- To share tools developed in image treatment and analysis (common platform for data exchange? To integrate an another network? ...)
 - To improve our visibility and communication

(regular updates of our common website, job announcements, meetings, ...)

Others?

(who will organize the next meeting?, ...)

Swiss Bioimaging Network: we and others...

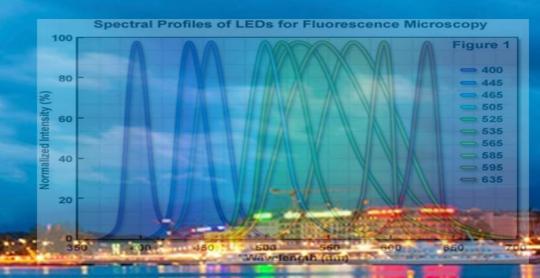


Eurobioimaging

Neubias



THANKS FOR YOUR PARTICIPATION!













Core Facilities In Switzerland
Microscopy at its best!

17:30- 19:30 Social Event: « Cocktail dinatoire » at the Domaine de Penthes





CMU > Domaine de Penthes:

Bus 5 direction "Aéroport"

Then stop at "Nation"

Bus V or Z direction "Bois-Chatton", stop at "Penthes"

7 min. walking

Domaine de Penthes > Cornavin:

7min. walking **Bus V or Z** at "Penthes"

Stop at "Cornavin"

Here! "Claparède" stop → Jardin Botanique Aéroport "Hôpital" → Jardin Botanique **Aéroport** "Roseraie"stop



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