

Louis-Jeantet/LS² Satellite Meeting
for Students & Postdocs

Proteomics and Structural Biology Meeting Booklet

10 October 2018, 09.00 - 14.30
Fondation Louis-Jeantet, Chemin Rieu 7, 1208 Geneva

Invited speakers:

Kurt Wüthrich

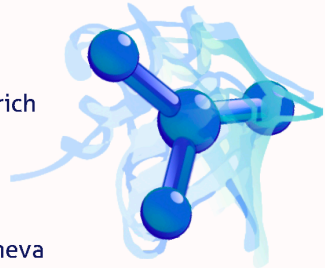
The Scripps Research Institute, La Jolla & ETH Zurich

Michal Bassani

CHUV Lausanne

Chairman:

Ioannis Xenarios, Universities of Lausanne & Geneva



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Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles

LS² 
Life Sciences Switzerland

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Program Overview

Wednesday, 10 October 2018

08:30 – 08:55 **Registration and welcome coffee** at the headquarters of the LJ Foundation

08:55 – 09:00 **Welcome address**
Meeting chair:
Ioannis Xenarios (UNIGE, UNIL, SIB)
Organizers:
Costanza Panbianco (LJF)
Carolin von Schoultz (LS²)

09:00 – 09:30 **Plenary Lecture I: Kurt Wüthrich** (The Scripps Research Institute & ETH Zurich)

09:30 – 10:30 **4 student talks** (10 min + 5 min questions)

Marc van Oostrum, ETH Zurich
Dynamics of the neuronal surface proteotype

Lorenz Weidenauer, UNIL
Human Hsp90 β is heavily phosphorylated in vivo on the charged linker

Maria del Carmen Conde Rubio, UNIL
Proteolytic landscape in stress cell and apoptosis

Johann Nuck, UNIGE
The mechanism of polydiacetylene activation by peptides

10:30 – 11:00 **Coffee break**

11:00 – 11:30 **Plenary Lecture II: Michal Bassani** (CHUV Lausanne)

11:30 – 12:30 **4 student talks** (10 min + 5 min questions)

Sille Remm, UZH

Is mycobacterial major facilitator superfamily transporter Rv1410 a drug efflux pump?

Joachim Moser von Filseck, UNIGE

Minimal requirements for ESCRT-III-mediated membrane deformation in vitro

Amel Bekkar, UNIL

Predicting therapeutic target for cardiovascular disease using logical model

Mikhail Kryuchkov, UNIL

Bioinspired nanocoatings

12:30 – 13:30 **Lunch**

13:30 – 14:30 **Q&A session about scientific careers with all participants & speakers**

14:30 **Closing remarks**

Program of the LJ Main Symposium

9 October 2018



2018 LOUIS-JEANTET SYMPOSIUM

CMU - Centre Médical Universitaire, Rue Michel-Servet 1, 1206 Geneva - Auditorium Alex-F. Müller (A250)

Tuesday, October 09 2018

PROTEOMICS AND STRUCTURAL BIOLOGY

08:15 – 08:50 **Registration and welcome coffee**

08:50 – 09:00 **Henri Bounameaux**
Dean of the Faculty of Medicine, University of Geneva
Opening

SESSION 1

SESSION 1.1: 9:00 – 10:30

Chairperson: **Kurt Wüthrich**
1993 Louis-Jeantet prize-winner
The Scripps Research Institute, La Jolla
Institute of Molecular Biology and Biophysics, ETH, Zürich

Co-chairperson: **Paul Guichard**
Faculty of Science, University of Geneva

09:00 – 09:30 **Richard Henderson**
MRC Laboratory of Molecular Biology, Cambridge
Electron cryomicroscopy: theory and practice

09:30 – 10:00 **Nenad Ban**
Institute of Molecular Biology and Biophysics, ETH, Zürich
Protein synthesis: from ribosome assembly to targeting
of membrane proteins

10:00 – 10:30 **Ian Wilson**
The Scripps Research Institute, La Jolla
Structure-assisted Design of Universal Vaccines and
Therapeutics against Influenza Virus

10:30 – 11:00 **Break**

SESSION 1.2: 11:00 – 12:30

11:00 – 11:30 **Matthias Mann**
Max-Planck Institute for Biochemistry, Munich
Novo Nordisk Foundation Center for Protein Research,
Copenhagen
Proteomics for biological mechanisms and translational
research

11:30 – 12:00 **Paola Picotti**
Institute of Molecular Systems Biology, ETH, Zürich
Probing protein structural changes on a proteome-wide
scale

12:00 – 12:30 **Carol Robinson**
University of Oxford, Oxford
Membrane proteins - the lipid connection

12:30 – 13:45 **Lunch**

SESSION 2

SESSION 2.1: 13:45 – 15:15

Chairperson: **Matthias Mann**
2012 Louis-Jeantet prize-winner
Max-Planck Institute for Biochemistry, Munich
Novo Nordisk Foundation Center for Protein
Research, Copenhagen

Co-chairperson: **Denis Hochstrasser**
Faculty of Medicine, University of Geneva

13:45 – 14:15 **Chuna Choudhary**
Novo Nordisk Foundation Center for Protein
Research, Copenhagen
Mass spectrometry for cell signaling: from
global maps to new biological insights

14:15 – 14:45 **Martin Beck**
EMBL, Heidelberg
Structural proteomics of the nuclear transport
system

14:45 – 15:15 **Emma Lundberg**
KTH Royal Institute of Technology, Stockholm
Dissecting the spatiotemporal subcellular
distribution of the human proteome

15:15 – 15:45 **Break**

SESSION 2.2: 15:45 – 17:15

15:45 – 16:15 **Frédéric Allain**
Institute of Molecular Biology and Biophysics, ETH,
Zürich
Hybrid structural approaches to solve
structures of protein-nucleic acid complexes

16:15 – 16:45 **Ichio Shimada**
University of Tokyo, Tokyo
Function-related Dynamics of Membrane Proteins

16:45 – 17:15 **Kurt Wüthrich**
The Scripps Research Institute, La Jolla
Institute of Molecular Biology and Biophysics, ETH,
Zürich
NMR, Structural Dynamics and Signal Transfer
of G protein-coupled Receptors (GPCRs)

17:15 – 17:25 **Kurt Wüthrich and Matthias Mann**
Concluding remarks

17:25 **End of the Symposium**

More information and registration online: www.jeantet.ch

Organizers

Life Sciences Switzerland (LS²)

Carolin von Schoultz (Scientific Officer)

Jacqueline Oberholzer (Executive Secretary)

Elena Cardenal Muñoz (Social Media Manager)

...and our freelance support:

Dagmar Bocakova (design, bocakova@gmail.com),

Dominique Ritter (administration), **Michael Vögeli** (IT)



Louis-Jeantet Foundation

Costanza Panbianco (Scientific Associate)

Carole Liernur (Administrator)

Elodie Van Hove (Administrative Assistant)



Sponsors



Established in Geneva in 1983, the Louis-Jeantet Foundation devotes CHF 4 Mio / year to further the cause of medicine. The support is divided equally between European research projects and local projects in association with the Faculty of Medicine of the University of Geneva.



Member of
the Swiss Academy of Sciences

Life Sciences Switzerland (LS²), founded in 1969 as the former USGEB (Union of Swiss Societies in Experimental Biology), is the biggest Swiss Life Sciences society. We support researchers by organizing conferences, workshops, and satellite symposia, distribute travel grants to young researchers, reaching out to the public, and provide a network to foster scientific exchange. www.ls2.ch, www.annual-meeting.ls2.ch

14-15 February, University of Zurich, Campus Irchel

SCIENCE POLICY PANEL

PIs OF TOMORROW CONTEST

AWARD LECTURES

SCIENTIFIC SYMPOSIA

INDUSTRY EXHIBITION

CAREER SESSION

POSTER SESSIONS

LS² Annual Meeting 2019

"Cell Biology from Tissue to Nucleus"

PLENARY SPEAKERS

Anna Akhmanova, Utrecht University (NL)

Anne Bertolotti, MRC Cambridge (UK)

Jody Rosenblatt, University of Utah (US)

Leonie Ringrose, Berlin (DE)

Infos & Registration: www.annual-meeting.ls2.ch



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Université de Fribourg

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Swiss Academy of Sciences
Académie des Sciences et Lettres
Accademia di Scienze e Lettere
Accademia dei Lincei

PLENARY SPEAKERS

Anna Akhmanova (NL)
Anne Bertolotti (UK)
Jody Rosenblatt (US)
Leonie Ringrose (DE)

SYMPOSIUM SPEAKERS

Juri Rappsilber (DE)	Sabine L. Flitsch (UK)
Kathryn S. Lilley (UK)	Tom Ward (CH)
Simonetta Gribaldo (FR)	Petra Hajkova (UK)
Klas Flärdh (SE)	Oded Rechavi (IL)
Frédérique Lisacek (CH)	Susan Gasser (CH)
Helder Maiato (PT)	Gerlind Wallon (DE)
Caren Norden (DE)	Marieke van den Brink (NL)
Thierry Hennet (CH)	Edgar Gomes (PT)
	Susan Treves (CH)

...plus many talks selected from submitted abstracts!

Infos & Registration: www.annual-meeting.ls2.ch



ETH zürich



Universität
Basel



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NEUCHÂTEL



UNIVERSITÉ
DE GENÈVE



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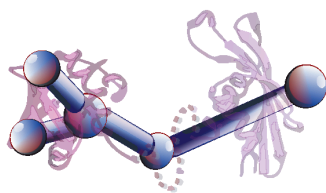
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FONDATION
LOUIS-JEANTET



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Zurich 2018