

Campus Irchel, University of Zurich

11.-12. February 2026

LS²

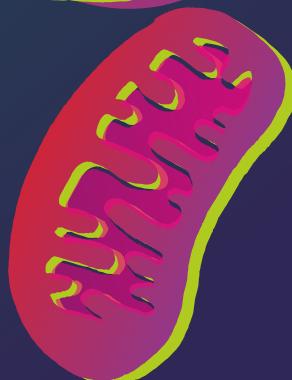
Annual Meeting

“Fueling life across scales” **2026**

**Meeting
Booklet**



University of
Zurich ^{UZH}



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Life Sciences Switzerland

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This booklet belongs to:

**Life Sciences Switzerland (LS²)
Zurich 2026
Design by Dagmar Bocakova**

Content

| | |
|--|----|
| Welcome note from meeting chairs: Prof. Tatjana Kleele and Prof. Alexis Jourdain | 5 |
| Organizing committee | 7 |
| LS ² Sections, partners and collaborations | 8 |
| Benefits of being an LS ² member | 9 |
| Thank you to our sponsors & exhibitors | 10 |
| Program overview | 12 |
| Floor plan & Exhibitors | 16 |
| Exhibition lottery | 19 |
| Exhibition lottery prizes | 22 |
| Exhibition lottery sheet | 23 |
| Detailed program: Young Scientists' Satellite | 25 |
| Detailed program: Day ONE | 31 |
| Detailed program: Day TWO | 39 |
| Sponsors of our prizes | 50 |
| Posters | 51 |
| Upcoming LS ² and affiliated events | 66 |

Welcome note from meeting chairs

Dear colleagues,

It is our great pleasure to welcome you to the **LS² Annual Meeting 2026**, hosted on the Irchel Campus at the University of Zürich. Our Annual Meeting serves as a vibrant platform for scientists across Switzerland and beyond, bringing together researchers from all fields of life sciences to foster collaboration and share groundbreaking discoveries. This interdisciplinary exchange has been a cornerstone of LS², enhancing the strength and diversity of our scientific community.

This year's theme, "**Fueling Life Across Scales**", highlights the fundamental role of energy in driving biological processes, from the molecular to the organismal level. We are delighted to announce three outstanding keynote speakers: **Sarah-Maria Fendt** (VIB Center for Cancer Biology & KU Leuven, Belgium), **Heidi McBride** (McGill University, Canada), and **Jennifer Lippincott-Schwartz** (Howard Hughes Medical Institute, USA). Their lectures will span critical topics in metabolism, mitochondria, cancer, and advanced imaging technologies, providing unique insights into how energy fuels life at multiple scales.

The keynote lectures will be integrated into an exciting program featuring 11 scientific symposia organized by LS² sections and partners. This includes 14 invited speakers and over 40 speakers selected based on abstract submissions. As always, we look forward to the laureate talks by the recipients of the **Friedrich Miescher Award** and the **Lelio Orci Award**. The meeting will also feature **Young Scientists' Satellite**, 2 interactive **poster sessions**, and an extensive **industry exhibition** to encourage scientific discussions and networking.

The LS² Annual Meeting is the largest life sciences gathering in Switzerland, offering a broad scientific program and facilitating connections across disciplines. We strongly encourage **young researchers** to engage in discussions, present their work, and take advantage of the rich networking opportunities.

We would like to extend our sincere gratitude to all our sponsors and exhibitors for their invaluable contributions, which make the 2026 Annual Meeting possible. We encourage you to visit their booths and engage with their representatives to stay informed about the latest technological advancements.

On behalf of the scientific committee and the entire meeting preparation team, we welcome you to **Zürich** for 2 ½ days of **stimulating scientific exchange**.

With best regards,

Tatjana Kleele (ETH Zurich) and **Alexis Jourdain** (University of Lausanne)



Organizing Committee

Chairs of the LS² Annual Meeting 2026:

Prof. Tatjana Kleele (ETH Zurich)

Prof. Alexis Jourdain (University of Lausanne)

Presidency of LS²:

President: Prof. Simon Sprecher (University of Fribourg)

Vice-President: Prof. Emi Nagoshi (University of Geneva)

Past-president: Prof. Mario Tschan (University of Bern)

Scientific Committee:

Prof. Vikram Govind Panse (University of Zurich)

Prof. Roger Geiger (Università della Svizzera italiana)

Prof. Wanda Kukulski (University of Bern)

Prof. Patricia Boya (University of Fribourg)

LS² Office:

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Dr. Lalita Oparija-Rogenmozere, Scientific Officer

Jacqueline Oberholzer, Financial Officer

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Michael Vögeli, IT

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LS² Sections, partners, and collaborations

LS² Sections:

Autophagy / Intersection Bioinformatics / Biophysics / Intersection Cardiovascular Biology / Ion Channels and Membrane Transporters / Intersection Microscopy / Molecular and Cellular Biosciences (MCB) / Physiology / Proteomics / Systems Biology

LS² Partner Societies

Swiss Chemical Society (SCS), division of Medicinal Chemistry & Chemical Biology (DMCCB)
Swiss Society for Anatomy, Histology and Embryology (SSAHE)
Swiss Society for Experimental Pharmacology (SSEP)
Swiss Laboratory Animal Science Association (SGV)

LS² Collaborators

Swiss Biotech Association (SBA)
Swiss Coordination Committee for Biotechnology (SKB)
Swiss 3R Competence Centre (3RCC)
Biotechnet Switzerland
Swiss Network for Dementia Research

LS² is a member of the Swiss Academy of Sciences  scnat
swiss academy of sciences

LS² European and International Affiliations

Federation of European Biochemical Societies (FEBS)
European Biophysical Societies' Association (EBSA)
Federation of European Physiological Societies (FEPS)
European Proteomics Association (EuPA)
International Union of Biochemistry and Molecular Biology (IUBMB)
The American Society for Cell Biology (ASCB)
International Union of Physiological Sciences (IUPS)

Benefits of being an LS² member

You have privileged access and/or reduced fees to LS² Events:

- The Annual Meeting: the largest life-science meeting in Switzerland
- Section Meetings
- Satellite Meetings for PhD students and Postdocs
- Workshops & Symposia
- Social events (science hikes, company visits, etc.)
- You will also receive regular newsletters and social media updates.

As our member, you can:

- Become a Board Member, steering strategic decisions
- Join the Organizing Committee / become a Chair of a meeting
- Join us backstage / get involved as a volunteer, and gain new skills

If you are a PhD student, you are eligible for a [Travel Grant](#) for up to 1400 CHF!

You become a member of our affiliated or partner societies:

- benefitting from special fees for their events
- becoming eligible for their travel grants/other financial support

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Supplies for Laboratory and Production

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biotec

 **BRUKER**

 **charles river**

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RESEARCH**
SYNAPSIS FOUNDATION SWITZERLAND

 **EMBO**

eppendorf

**FEBS
Letters**

 **GENEWIZ**
From Azenta Life Sciences

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A CALIBRE SCIENTIFIC COMPANY

 **Innovation
Zurich**

 **IG Instruments**
smart solutions & service

INTEGRA

 **labgene** scientific instruments

 **Leica**
MICROSYSTEMS





Seeing beyond



University of
Zurich ^{UZH}

Program overview

YOUNG SCIENTISTS' SATELLITE MEETING (YSS)

Tuesday, February 10, 2026 - Auditorium G60, Y24

12:00 – 12:30 Registration & Welcome Coffee

12:30 – 12:35 Welcome Address

12:35 – 12:40 Introduction from YSSM Chairs

12:40 – 13:00 YSS Keynote Lecture I

13:05 – 13:25 YSS Keynote Lecture II

13:25 – 13:55 Coffee Break

13:55 – 15:15 Scientific Symposium

15:15 – 15:45 Coffee Break

15:45 – 16:00 Introducing: LS²-supported Student Prize Winners

16:00 – 16:10 FEBS initiatives and fellowship opportunities for young scientists

16:10 – 17:55 Panel Discussion/Workshop: "Speaking Science, thinking AI"

17:55 – 18:00 Closing Remarks & Acknowledgements

18:00 – 19:00 YSS Networking Apéro

Program overview:

MAIN CONFERENCE: DAY ONE

Wednesday, February 11, 2026

| | |
|--|--|
| 08:15 – 09:00 | Registration & Welcome Coffee |
| 09:00 – 09:10 Lecture hall G45 | Welcome Address |
| 09:10 – 09:45 | The EMBO Keynote Lecture |
| 09:45 – 10:15 | Lelio Orci Award 2025 Lecture |
| 10:15 – 10:45 | Coffee Break & Industry Exhibition |
| 10:45 – 12:30 | Special Plenary Session – PIs of Tomorrow |
| 12:30 – 13:30 | Lunch Break & Industry Exhibition <i>(Catering for industry representatives will open at 12:00)</i> |
| 13:30 – 14:30 | Poster Session I |
| 13:30 – 15:00 | Feedback Session PIs of Tomorrow |
| 14:30 – 16:15 | PARALLEL SYMPOSIA SESSION I |
| 14:30 – 16:15 Room G60 | The Metabolic Code of Life: Energy and Cell Systems Organized by LS ² section Systems Biology. |
| 14:30 – 16:15 Room G95 | Advances in Chemical Biology and Drug Discovery Organized by LS ² Partner Society DMCCB. |
| 14:30 – 15:20 Room G40 | Mini-symposium: From Disorder to Function: The Evolving Landscape of IDPs and Condensates Organized by LS ² section Biophysics. |
| 15:25 – 16:15 Room G40 | Mini-symposium: Ion Channels and Membrane Transporters: At the Interfaces That Fuel Life Organized by LS ² section ICMT. |
| 16:15 – 16:45 | Coffee Break & Industry Exhibition |
| 16:45 – 17:20 | Keynote Lecture I |
| 17:25 – 19:20 | Industry Exhibition & Networking Apéro (from 17:45) |

MAIN CONFERENCE: DAY TWO

Thursday, February 12, 2026

| | |
|----------------------|---|
| 08:30 – 09:00 | Registration & Welcome Coffee |
| 09:00 – 09:05 | Welcome Address |
| Lecture hall G45 | |
| 09:05 – 09:40 | Keynote Lecture II |
| 09:40 – 10:20 | Coffee Break & Industry Exhibition |
| 10:20 – 12:05 | Advances in Volumetric Microscopy: from Method Development to Biological Applications |
| Room G60 | Organized by LS ² Intersection Microscopy. |
| 10:20 – 12:05 | Advancing Cancer Therapeutics Through Patient-Derived Complex Models |
| Room G95 | Organized by Swiss Society of Experimental Pharmacology (SSEP). |
| 10:20 – 12:05 | Proteomics in the Era of Multi-Omics |
| Room G40 | Organized by LS ² Section Proteomics. |
| 12:05 – 13:05 | Lunch Break & Industry Exhibition <i>(Catering for industry representatives will open at 11:30)</i> |
| 12:05 – 13:05 | Physiology Section Board Meeting <i>(Upon invitation only)</i> |
| Y-22-F-68 | |
| 12:05 – 13:05 | MCB Section Board Meeting <i>(Upon invitation only)</i> |
| Y-23-G-04 | |
| 12:05 – 13:05 | SSEP Council Meeting <i>(Upon invitation only)</i> |
| Room G95 | |
| 13:05 – 14:05 | Poster Session II |
| 14:05 – 15:50 | Mitochondria: Fueling Cells in Life, Death, and Disease |
| Room G60 | Organized by LS ² section MCB. |
| 14:05 – 15:50 | Are we coming closer to understanding and treating neurodegenerative diseases? |
| Room G40 | |

Organized by Swiss Network for Dementia Research.

14:05 – 14:55 **Mini-symposium: Bioinformatics Driving the One Health Concept**
Room G95

Organized by LS² Intersection Bioinformatics.

15:00 – 15:50 **Mini-symposium: Extracellular vesicles in Cardiovascular Therapeutics**
Room G95

Organized by LS² Intersection Cardiovascular Biology.

15:50 – 16:10 **Coffee Break & Industry Exhibition**

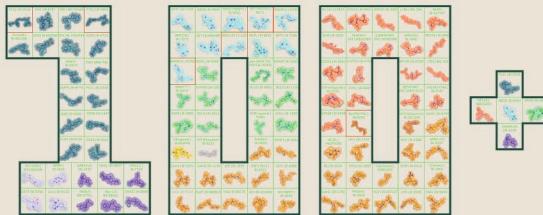
16:10 – 16:40 **Friedrich Miescher Award 2026 Lecture**

16:40 – 17:10 **Award Ceremony**

17:10 – 17:15 **Closing Remarks & Acknowledgements**



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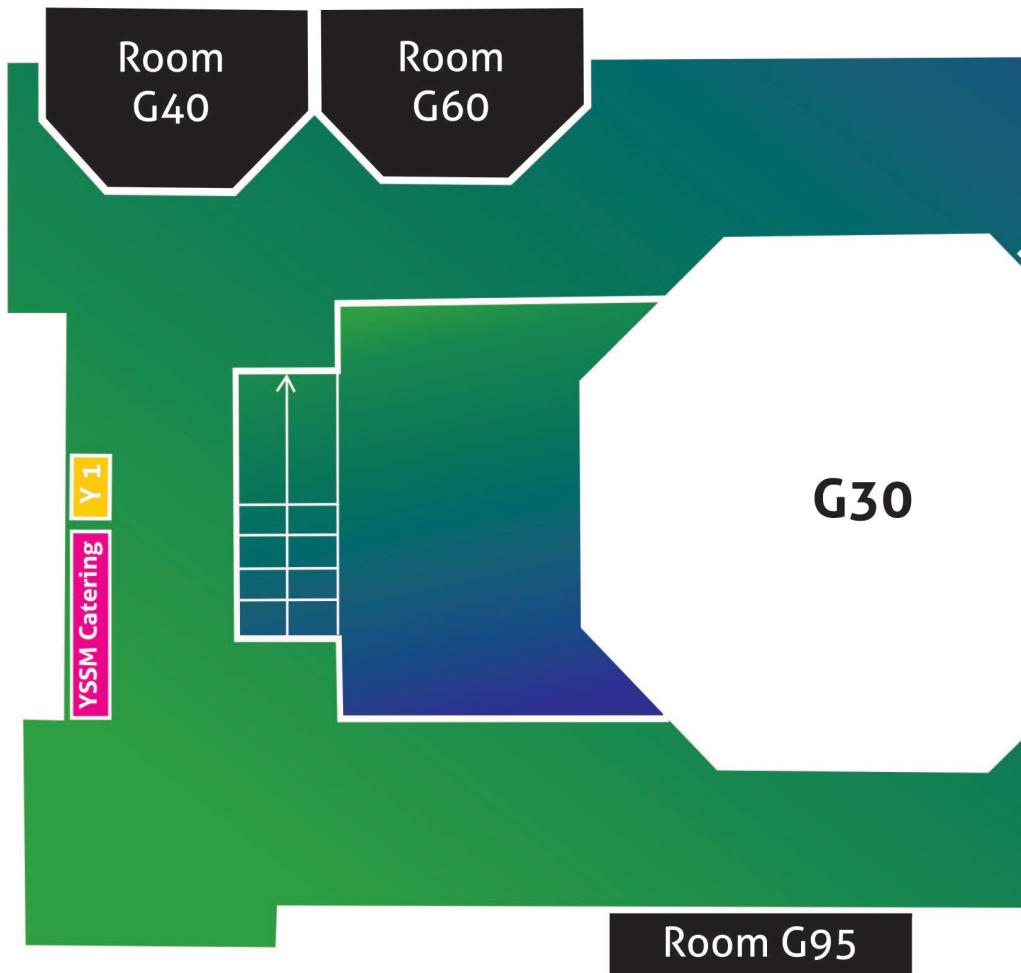


Feb 12, 2026 | 10:20 – 12:05



Parallel Symposia No. 6

Floor plan



EXHIBITORS

- 1.-2. Milian
- 3. Microsynth AG
- 4. HUBERLAB AG
- 5. Socorex Isba SA
- 6. QIAGEN
- 7.-8. VWR International GmbH/ Avantor
- 9. MACHEREY-NAGEL AG
- 10. LubioScience/ Zymo Research
- 11. opnMe.com by Boehringer Ingelheim
- 12. LABGENE Scientific SA
- 13. SKAN AG
- 14. IGZ Instruments AG
- 15. Chemie Brunschwig AG
- 16. INTEGRA Biosciences AG
- 17. BMG Labtech GmbH
- 18. Agilent Technologies AG

Posters on
the gallery
upstairs

| | | | | |
|----|----|----|----|----|
| 1 | 2 | 3 | 4 | |
| 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 |



REGISTRATION

Plenary
lecture
hall
G45

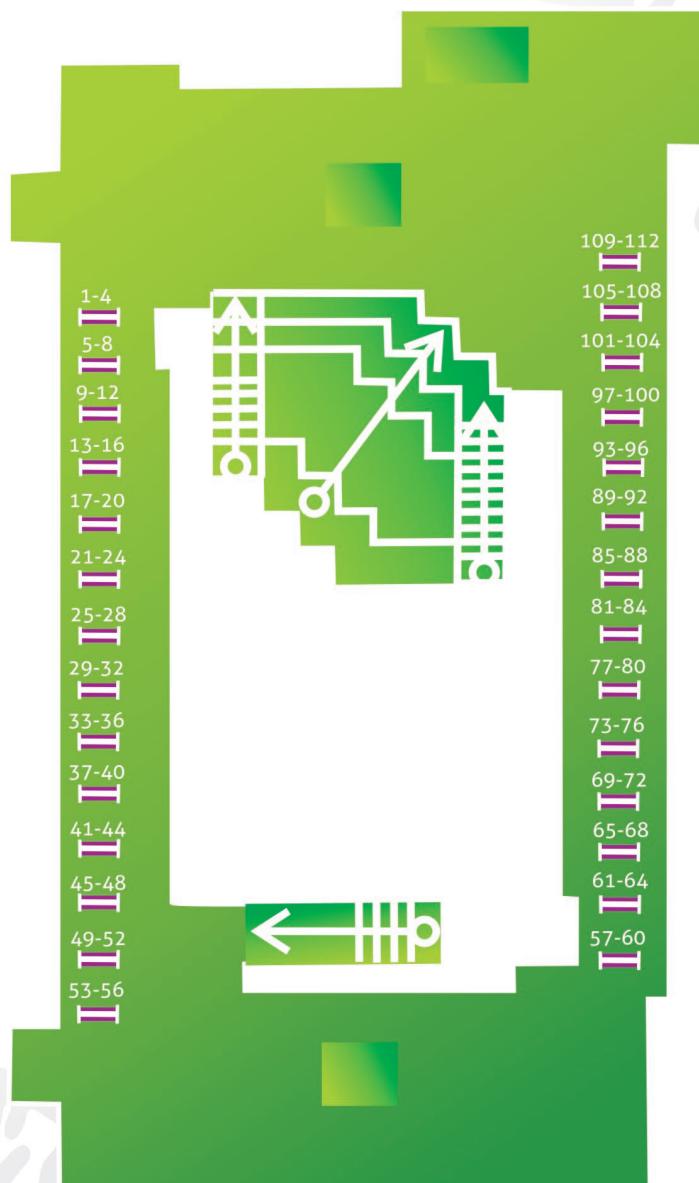
G85

Entrance

Storage
(Dozentenfoyer)

- 19. Merck
- 20. Bucher Biotec AG
- 21. Lucerna-Chem AG
- 22. OMNI Life Science
- 23. Charles River
- 24. Bio-techne
- 25. BioConcept AG
- 26. Promega AG
- 27. ROTH AG
- 28. GENEWIZ from
Azenta Life Sciences
- 29. LabForce AG
- 30. Witec AG
- 31. Eppendorf
- 32. Abcam
- 33. Takara Bio Europe
- 34. Mettler-Toledo GmbH
- Y1. Swiss Biotech Association

Floor Plan - Posters



Exhibition lottery

Visit the booths, collect all stickers from our exhibitors, and win one of the prizes!

To participate, please bring the completed exhibition quiz sheet to the registration desk by Thursday, February 12, at 15:50.

The prize can only be awarded if the **winner is present** at the Award Ceremony on February 12 at 16:40.

GOOD LUCK!!

Booth Company & Question

1 & 2 Milian

Name three products that Milian offers in the field of molecular biology under its new product brand OWIBIO and describe their key features.

3 Microsynth AG

For which service or products is Microsynth AG ISO 13485 certified?

4 HUBERLAB AG

Visit our booth to collect your sticker !

5 Socorex Isba SA

What did Socorex celebrate in 2025?

6 QIAGEN

The 'Impossible' Sample – Solved by QIAGEN! draw your "impossible" or "super-precious" sample at our booth. Make it as creative, funny, or challenging as you like.

7 & 8 VWR International GmbH / Avantor

Partner Enzo Biochem quiz question: Which laser would you use to measure aggresomes by Flow Cytometry?

1) UV 2) Violet 3) Blue 4) Green 5) Yellow 6) Orange 7) Red

9 MACHEREY-NAGEL AG

Take a selfie with the MN-duck at our booth and post it on LinkedIn with @MACHEREY-NAGEL.

10 LubioScience / Zymo Research

Spin the Wheel of Fortune and win a great prize!

11 opnMe.com by Boehringer Ingelheim

How well do you know open innovation? Take the opnMe quiz at our booth to earn your sticker!

12 LABGENE Scientific SA

Visit our booth to collect your sticker !

13 SKAN AG

Which brands of Personal Protective Equipment (PPE) does SKAN sell?

14 IGZ Instruments AG

What year did IGZ Instruments start selling innovative lab equipment?

15 Chemie Brunschwig AG

Name one of Chemie Brunschwig AG's new suppliers for 2026!

16 INTEGRA Biosciences AG

What is the name of INTEGRAs newest Pipette – that can work in manual and electronical Mode?

17 BMG LABTECH GmbH

What does LVF stand for in LVF monochromator systems?

18 Agilent Technologies AG

What does RTCA stand for?

19 Merck

We recently launched a new game-changing innovation in protein biology which allows you to make fresh, high-quality PAGE gels in less than 5 minutes. How is this possible? a) TurboTEMED is the new thing; b) APS2.0 works its magic; c) BuzzBisTris polymerizes in no time; d) mPAGE Lux utilizes photopolymerization.

20 Bucher Biotec AG

What is the name of the reliable and affordable plate reader at Bucher Biotec?

21 Lucerna-Chem AG

What year was Lucerna-Chem established?

22 OMNI Life Science

What is the principle used by the CASY vivo Cell Counter to count cells?

23 Charles River

Which dosing method maintains consistent plasma levels of a test agent throughout a study while reducing animal stress?

A) Injections B) Infusion C)Food and Water

24 bio-technie

What is the advantage of a synthetic matrix compared to a classic matrix for organoids?

25 BioConcept AG

Which Swiss company provides real-time immunoassays similar to ELISA within 10 minutes?

26 Promega AG

What do all our metabolite detection assays have in common?

27 ROTH AG

“Scratch and Win”

28 GENEWIZ from Azenta Life Sciences
Which GENEWIZ Guardian of the Genome is your favorite?

29 LabForce AG
What are the advantages of ExoGAG technology for exosome isolation from biofluids over existing kits?

30 Witec AG
What are the revolutionary features of the new Fusion Absolute Western Blot Imager?

31 Eppendorf
What is the name of the new Eppendorf pipette? What are the names of our consumables made from recycled plant oil?

32 Abcam
What does the business name Abcam mean?

33 Takara Bio Europe
Takara ExPremier™ DNA Polymerase is designed to provide which key benefit in PCR applications? A) Ultra-high fidelity via strong proofreading activity, B) Robust and reliable amplification across a wide range of templates, C) Selective amplification only of GC-rich DNA, D) Exclusive use for qPCR applications

34 Mettler-Toledo (Schweiz) GmbH
How does CytoDirect know the viability of cells without using any dyes?

Exhibition lottery prizes

1st Prize 500 CHF sponsored by BioConcept AG



2nd Prize 300 CHF sponsored by Roche



3rd Prize 200 CHF sponsored by LS²

Visit the booths, collect all stickers from our exhibitors, and win one of the prizes!

1. PRIZE
500 CHF



BioConcept



2 .PRIZE
300 CHF



3 .PRIZE
200 CHF



To participate, bring the filled exhibition quiz sheet to the registration desk by Thursday, February 12 at 15:50.

The prize can **only** be awarded if the winner is present at the Award Ceremony on February 12 at 16:40.

Good luck!

Visit the booths, collect all stickers from our exhibitors, and win one of the prizes!

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eppendorf

charles river

Microsynth
THE SWISS DNA COMPANY

Name, Affiliation

Detailed Program

YOUNG SCIENTISTS' SATELLITE MEETING (YSS)

Tuesday, February 10, 2026 - Auditorium G60, Y24

12:00 – 12:30 Registration for YSS & Welcome Coffee

(Registration will remain open until 16:00)

(Speakers and chairs should upload their presentations)

12:30 – 12:35 Welcome Address

Tatjana Kleele (Chair of LS² AM2026, ETH Zurich)

Alexis Jourdain (Chair of LS² AM2026, University of Lausanne)

Simon Sprecher (LS² President, University of Fribourg)

12:35 – 12:40 Introduction from YSSM Chairs

Charlotte Sutter (University of Zurich)

Meghna Swayambhu (University of Zurich)

Laura Wessling (Lausanne University Hospital)

12:40 – 13:00 YSS Keynote Lecture I

Lara Urban (University of Zurich)

"Nanopore technology and AI for rapid pathogen surveillance"

Genomics has become an integral part of One Health surveillance to identify pathogen and resistance outbreak clusters and transmission routes, and whole-genome sequencing of cultured pathogens is now a recommended standard by the European Centre for Disease Prevention and Control and the European Food Safety Authority. I will show how recent improvements in genomic sequencing by real-time and accessible nanopore sequencing technology now hold the promise of implementing rapid genomic sequencing at the point of care and potentially globally due to the low upfront investment costs. I will explore how rapid and holistic metagenomic surveillance by nanopore sequencing and AI-based analysis can address challenges associated with metagenomics-based surveillance in terms of sensitivity, viability, and associations of resistance genes to their pathogenic hosts.

13:05 – 13:25 YSS Keynote Lecture II**Laurence Romy** (Biopôle SA & Lormina.ch)

"Long and short at once, the beauty of the journey:
Lessons from a path of doubt, discovery, and courage"

It was easy to follow a predictable academic path: high school with a scientific focus, then a Bachelor's, a Master's, and finally a PhD. But then what? For me, it has always been important to take ownership of my own development and not wait for others to shape my career trajectory. This mindset guided me before, during, and after my PhD research. Throughout this keynote, I hope to share how being proactive and taking pride in every step of both my personal and professional development has shaped my life. My wish is that it will resonate with you and perhaps inspire you to reflect on your own path.

13:25 – 13:55 Coffee Break**13:55 – 15:15 Scientific Symposium****13:55 – 14:00 Introduction from chairs****14:00 – 14:12 Marta Mazurkiewicz** (University of Zurich)

"Identification of oligodendrocyte transcriptional signatures in Western diet-induced pain"

14:12 – 14:24 Annemarie Iano (Baruch College, City University of New York)

"Nanoplastics penetration across the blood-brain barrier"

14:24 – 14:36 Elena Barletta (Swiss Institute of Bioinformatics)

"Proteomics Profiling Reveals Sex-Based Differences and Hormonal Modulation of Recovery in Elite Female Athletes Following Intense Exercise"

14:36 – 14:48 Jakub Hruby (EPFL Lausanne)

"Microsecond Time-Resolved Cryo-EM Based on Jet Vitrification"

15:48 – 15:00 Marta Balkota (University of Geneva)

"Brain Mitochondrial Glutamate Metabolism Coordinates Body Energy Balance and Age-Related Behavioral Change"

15:00 – 15:12 **Justine Leclerc** (University of Zurich)
"conformeR: Conformalized differential expression analysis of multi-condition single-cell data"

15:12 – 15:15 Closing remarks

15:15 – 15:45 Coffee Break

15:45 – 16:00 **Introducing: LS²-supported Student Prize Winners**
Victoria Jaël Moser & Mara Robinson (Schweizer Jugend Forscht)
Ruben Kastelic, Raphael Burgener, Lukas Müller, Dhruv Sharma (Biologie Olympiade)
Joshua Tran (Geneva Chemistry and Biochemistry Days)

16:00 – 16:10 **FEBS initiatives and fellowship opportunities for young scientists**

16:10 – 17:55 **Workshop/Panel Discussion: "Speaking Science, thinking AI"**

Kristina Thumfart (IACULIS GmbH), **Verena Waller** (Roland Berger) and **Darren Ray Kelly** (ETH Zurich)

In today's scientific landscape, artificial intelligence is no longer a futuristic concept - it is an integral part of research, analysis, and communication. While AI offers powerful tools and efficiencies, its overuse or misuse can lead to errors in data interpretation and scientific outcomes. At the same time, AI opens new avenues for communicating complex science to broader audiences, particularly when scientists struggle to translate their work beyond the lab. This workshop explores critical questions: how much should we rely on AI, not just for the heavy lifting of data processing, but its use critical aspects of science communication. The workshop is designed to facilitate discussions between young AI users and experienced scientists on use of AI for data processing and science communication. Additionally, we discuss the overarching question of where must the human voice remain irreplaceable?

17:55 – 18:00 Closing Remarks & Acknowledgements

18:00 – 19:00 YSS Networking Apéro



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or book a 10 minute chat now.



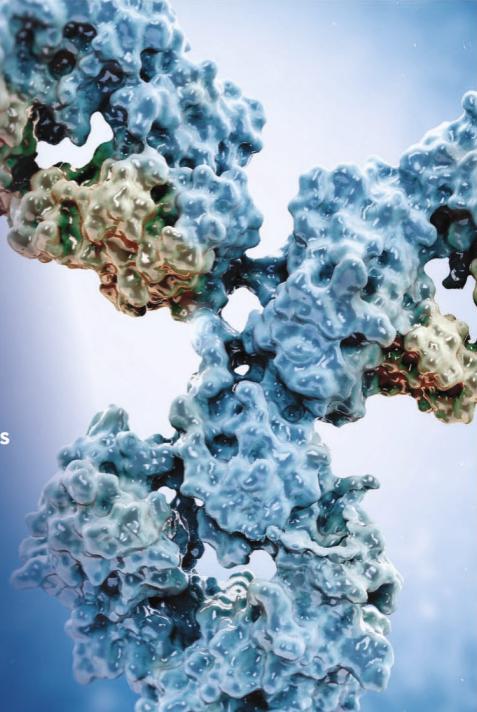


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Detailed Program

MAIN CONFERENCE: DAY ONE

Wednesday, February 11, 2026

08:15 – 09:00 Registration & Welcome Coffee

Lichthof area
(Registration will remain open until 16:45)
(Speakers and chairs of the morning sessions should load their presentations)

09:00 – 09:10 Welcome Address

Lecture hall G45 **Tatjana Kleele** (Chair of LS² AM2026, ETH Zurich)
Alexis Jourdain (Chair of LS² AM2026, University of Lausanne)
Simon Sprecher (LS² President, University of Fribourg)

09:10 – 09:45 The EMBO Keynote Lecture

Lecture hall G45 **Sarah-Maria Fendt** (VIB KU Leuven, BE)



"Metabolic rewiring driving metastasis formation"

Metastasis formation is the leading cause of death in cancer patients. We find that metabolic rewiring is a liability of metastasizing cancer cells. For example, we discovered that extracellular remodeling of the metastatic niche, a process essential to metastasis formation, requires a transcriptional-independent regulation via the metabolites. Moreover, we provide knowledge on intratumor heterogeneity of metabolism and its role in pre-metastatic niche and metastasis formation. Thus, we study the metabolism of metastasizing cancer cells with the goal to define novel therapeutic strategies.

09:45 – 10:15 Lelio Orci Award Lecture

Lecture hall G45 **Pierre Gönczy** (EPFL Lausanne)

Introductory words by **Pierre Cosson** (University of Geneva)



"Mechanisms of centriole assembly: addressing a long-standing question in cell biology"

Understanding the organizing principles driving assembly of cellular organelles is an important pursuit in biology. The centriole is an evolutionarily conserved microtubule-based organelle essential for the formation of flagella, cilia and centrosomes. The centriole exhibits a striking 9-fold radially symmetrical arrangement of microtubules organized around a likewise symmetrical cartwheel. I will discuss published and ongoing work aimed at deciphering the mechanisms governing centriole assembly across systems.

10:15 – 10:45 Coffee Break & Industry Exhibition

10:45 – 12:30 Special Plenary Session: PIs of Tomorrow (PIOT) –

Lecture hall G45 **The Future of Swiss Research** Cast your vote:

Finalists:

Sponsored by:



Theodora Constantin (University of Basel)

"Unlocking the full potential of PI3K α inhibitors for cancer therapy"



Juan Cruz Landoni (EPF Lausanne)

"Charting the spatiotemporal coordination of mitochondrial metabolism in development, disease, and aging"



Olimpia Bompadre (EPF Lausanne)

"Multi-Scale Dissection of Heterochromatin Regulation in Cancer Initiation"



Alaz Ozcan (University of Zurich)

"Neutrophils Beyond the Battle: Architects of Defense"



Chairs:

Ana Ricardo da Costa Xavier (University of Basel)

Carina Osterhof (University of Fribourg)

Manon Guivier (University of Fribourg)

Monika Gjorgjieva (University of Geneva)

12:30 – 13:30 **Lunch Break & Industry Exhibition**
(Catering for industry representatives will be open from 12:00)
(Speakers and chairs of the afternoon sessions should load their presentations)

Grab your food and visit our booths!

13:30 – 14:30 **Poster Session I**
Poster Gallery
All posters exhibited, please remain near your poster!

13:30 – 15:00 **Feedback Session PIs of Tomorrow**
Y21-F-70
(Only for jury, chairs and finalists)

14:30 – 16:15 **PARALLEL SYMPOSIA SESSION I**

14:30 – 16:15 **The Metabolic Code of Life: Energy and Cell Systems**
Room G60
Organized by LS² section Systems Biology. Chaired by Thomas Michaels (ETH Zurich)

14:30 – 14:35 **Welcome words** from chairs

Invited speaker

14:35 – 15:10 **Kristina Stapornwongkul** (IMBA, AT)
"Glycolytic activity instructs germ layer proportions through regulation of Nodal and Wnt signalling"

Speakers selected from abstracts

15:10 – 15:22 **Abigail Alexandre-Strefeler** (University of Lausanne)
"Uridine-sensitized screening identifies NUDT5 as a regulator of nucleotide synthesis"

15:22 – 15:34 **Sebastian Bors** (University of Basel)
"A comprehensive genome-scale map of transcription factor-mediated metabolic rewiring in lung cancer via CRISPR and high-throughput metabolomics"

15:34 – 15:46 **Peter Lenart** (University of Bern)
"Coordinated Scaling of Germline Growth Ensures Reproductive Timing Across Environments"

15:46 – 15:58 **Ryan Separovich** (ETH Zurich)
"Systematic phosphoproteomics of an analog-sensitive kinase library defines context-specific signalling networks"

15:58 – 16:10 **Michael Zogg** (University of Basel)
"Hexose-6-phosphate dehydrogenase drives metabolic reprogramming and tumorigenicity in MDA-MB-231 triple-negative breast cancer cells"

16:10 – 16:15 Closing remarks

14:30 – 16:15 **Advances in Chemical Biology and Drug Discovery**
Room G95 Organized by LS² Partner Society DMCCB. Chaired by **Sascha Hoogendoorn** (University of Geneva)

14:30 – 14:35 **Welcome words** from the chair

Invited speaker

14:35 – 15:10 **Ben Schumann** (Dresden University of Technology, DE)
"Chemical precision tools to dissect protein glycosylation"

Speakers selected from abstracts

15:10 – 15:20 **Po-Han Chang** (EPF Lausanne)
"Exploring the regulation of microtubule detyrosination and polyglutamylation through semi-synthetic tubulin"

15:20 – 15:30 **Theodora Constantin** (University of Basel)
"Covalent Inactivation of PI3K α : Novel Paradigm for Isoform-Resolved Pharmacology"

15:30 – 15:40 **Annemarie Iano** (Baruch College, City University of New York)
"Microtubules in Breast Cancer: Exploring the α/β -Tubulin Toggle Switch and Its Implications in Human Breast Cancer"

15:40 – 15:50 **Kelvin Groot** (University of Zurich)
"Highly multiplexed imaging uncovers combinatorial perturbation effects of small molecule treatments"

15:50 – 16:00 **Ali Hallaj** (University of Lausanne)
"A non-disruptive compound to enhance cytosolic delivery of cell-penetrating peptides"

16:00 – 16:10 **Linda Wedemann** (EPFL Lausanne)
"Species-specific diacylglycerol signaling – peeking behind the mask of lipid classes"

16:10 – 16:15 Closing remarks

14:30 – 15:20 **Mini-symposium: From Disorder to Function: The Evolving Landscape of IDPs and Condensates**
Room G40
Organized by LS² section Biophysics. Chaired by **Beat Fierz** (EPFL Lausanne) & **Stefanie Jonas** (ETH Zurich)

14:30 – 14:31 Welcome words from chairs

Invited speaker

14:31 – 14:56 **Marc-David Ruepp** (King's College London)
"Dissecting the molecular determinants of FUS function"

Industry speaker

14:56 – 15:01 **Valentina Millarte** (Agilent Technologies AG)



"Take your real-time metabolic analysis to the next level.
From 2D to 3D with the Seahorse XF FLEX analyzer"

Speakers selected from abstracts

15:01 – 15:10 **Benjamin Frühbauer** (ETH Zurich)
"Condensation of satellite DNA by the disordered protein D1 safeguards nuclear mechanostability"

15:10 – 15:19 **Izabela Smok** (ETH Zurich)
"A cross-linking mass spectrometry method for characterizing protein-RNA interactions in phase-separated systems"

15:19 – 15:20 Closing remarks

15:25 – 16:15 **Mini-symposium: Ion Channels and Membrane Transporters: At the Interfaces That Fuel Life**
Room G40
Organized by LS² section ICMT. Chaired by **Cristina Manatschal** and **Elena Lehmann** (University of Zurich)

15:25 – 15:27 **Welcome words** from chairs

Invited speaker
15:27 – 15:52 **Francesca Giordano** (Institut de Biologie Intégrative de la Cellule (I2BC), FR)
"Regulation of lipid transport and storage at the three-way Mitochondria-Endoplasmic Reticulum-Lipid Droplet junction"

Speakers selected from abstracts
15:52 – 16:02 **Alexandre Bokhobza** (University of Bern)
"Optimizing MINFLUX Performance: A Pipeline for Achieving Single-Digit Nanometer Super-Resolution in Biological Samples"

16:02 – 16:12 **Marta Monguió-Tortajada** (University of Lausanne)

"Relevance of the SLC15A4/TASL complex for IRF5-mediated Th1 responses"

16:12 – 16:15 Closing remarks

16:15 – 16:45 **Coffee Break & Industry Exhibition**

16:45 – 17:20 **Keynote Lecture I**

Lecture hall G45 **Heidi McBride** (McGill University, CA)

"Mapping new pathways of pyroptotic cell death"

Cell death is inhibited in cancers but increased in neurodegeneration, highlighting the importance of its regulation for human health. MAPL is an outer mitochondrial membrane SUMO ligase involved in cell death in both cancer and neurodegeneration *in vivo*, yet how MAPL controls the fate of this process remains unclear. Combining genome-wide functional genetic screening and cell biological approaches, we found that MAPL induces pyroptosis through an inflammatory pathway involving mitochondria and lysosomes. This discussion will detail the mechanisms by which MAPL and the mitochondria-to-lysosome pathway act at the nexus of immune signalling and cell death.

17:20 – 17:25 **Introducing: The Division of Business and Economic Development of the Kanton of Zurich & Innovation Zurich Initiative**

Lecture hall G45

Innovation
Zurich



17:25 – 19:20 **Industry Exhibition**

17:45 – 19:20 **Networking Apéro (sponsored by the Division of Business and Economic Development of the Kanton of Zurich)**



A region is only as bold as the people who shape it.



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Innovation Zurich bridges research, industry and government – to translate science into better health and innovation.

MAIN CONFERENCE: DAY TWO

Thursday, February 12, 2026

08:30 – 09:00 Registration & Welcome Coffee

Lichthof area

(Registration will remain open until 16:10)

(Speakers and chairs of the morning sessions should load their presentations)

09:00 – 09:05 Welcome Address

Lecture hall G45

Tatjana Kleele (Chair of LS² AM2026, ETH Zurich)

Alexis Jourdain (Chair of LS² AM2026, University of Lausanne)

Simon Sprecher (LS² President, University of Fribourg)

09:05 – 09:40 Keynote Lecture II

Lecture hall G45

Jennifer Lippincott-Schwartz (Howard Hughes Medical Institute, US)

"Looking under the hood of cells from micron to atomic scales"

Powerful new ways to image the internal structures and complex dynamics of cells are revolutionizing cell biology and bio-medical research. In my talk, I will focus on three emerging technologies capable of revealing new properties of cellular organization at scales ranging from nanometer to atomic resolution. Whole cell milling using Focused Ion Beam Electron Microscopy (FIB-SEM) was used to reconstruct the entire cell volume at 4-nm voxel resolution, revealing all membrane-bound organelles and their trafficking intermediates at isotropic resolution. Single particle tracking using Halo dyes revealed unexpected features of mRNA trafficking, including sites where secretory proteins are translated on ER and their regulation by lysosomes. Finally, High Resolution Template Matching (HRTM) of ribosome subunits in cryo-EM images of intact human cells afforded a look at ribosomes at different stages of peptide elongation at the atomic scale. Together, these new tools open-up a plethora of questions related to mechanisms of cell structure/function that can now be studied in intact cells at the nanometric/molecular level.

**09:40 – 10:20 Coffee Break (sponsored by Leica-Microsystems)
& Industry Exhibition**



| | |
|--|---|
| 10:20 – 12:05 | PARALLEL SYMPOSIA SESSION II |
| 10:20 – 12:05 Room G60 | Advances in Volumetric Microscopy: from Method Development to Biological Applications Organized by LS ² Intersection Microscopy. Chaired by Oliver Biehlmaier, Ana Rita Faria (University of Basel, Biozentrum, Imaging Core facility) & Erica Montani (ETH Zurich, D-BSSE Single Cell Facility) |
| 10:20 – 10:23 | Welcome words from chairs |
| | <i><u>Invited speaker</u></i> |
| 10:23 – 10:53 | Jan Huisken (University of Göttingen, DE) "Flamingo: A portable, modular platform for In Vivo imaging in diverse environments" |
| | <i><u>Industry Speakers</u></i> |
| 10:53 – 10:58 | Judith Reddington (Leica-Microsystems) "Visualizing Life in 3D at High Speed with Innovative Light Sheet Microscopy" |
|  | |
| 10:58 – 11:03 | Stefan Wahl (Area Sales Manager Zeiss Research Microscopy, Switzerland) "One Snap. One Volume: Instant Volumetric High-Speed Imaging of Living Organisms" |
|  Seeing beyond | |
| 11:03 – 11:13 | <i><u>Speakers selected from abstracts</u></i> |
| | Elda Bauda (University of Geneva) "Cryo-FIB ET uncovers novel yeast membrane compartments involved in lipid metabolism" |
| 11:13 – 11:25 | Laura Batti (Wyss Center for Bio and Neuro Engineering) "Insights into whole tissue clearing and labelling protocols for various samples in a microscopy facility context" |
| 11:25 – 11:35 | Ruth Hornbachner (University of Zurich) |

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| | "Characterization of anterior-posterior symmetry-breaking dynamics in murine embryos using whole-mount multiplexing protein mapping" |
| 11:35 – 11:47 | Nikita Vladimirov (University of Zurich) "The mesoSPIM initiative: facility-grade open-source lightsheet microscopes one can actually build" |
| 11:47 – 11:59 | Akanksha Jain (University of Zurich) "Unveiling the choreography of human brain development with organoids" |
| 11:59 – 12:05 | Closing remarks |
| 10:20 – 12:05 Room G95 | Advancing Cancer Therapeutics Through Patient-Derived Complex Models Organized by LS ² Partner Society SSEP. Chaired by Georgia Konstantinidou (University of Bern) & Patrycja Nowak-Sliwinska (University of Geneva) |
| 10:20 – 10:25 | Welcome words from chairs |
| | <u><i>Invited speaker</i></u> |
| 10:25 – 11:00 | Elisa Oricchio (EPFL Lausanne) "Empower personalized medicine for cancer patients using tissue explants for drug screening" |
| | <u><i>Industry Speakers</i></u> |
| 11:00 – 11:20   Boehringer Ingelheim | Markus Koester, Menorca Chaturvedi (opnMe.com by Boehringer Ingelheim) "Decoding KRAS with opnMe: Insights from SOS1 inhibition and other collaborative research" |
| | <u><i>Speakers selected from abstracts</i></u> |
| 11:20 – 11:30 | Jakub Gubala (University of Geneva) "Leveraging Multi-Organ Toxicity Models for Drug Combination Therapy Safety" |

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| 11:30 – 11:40 | Gonçalo Outeiro-Pinho (University of Bern) "MRTX1133 resistant cells rely on EZH2 activity to sustain their aggressive traits and avoid cell death" |
| 11:40 – 11:50 | Fiona Farnhammer (University Children's Hospital Zurich) "Single enzyme activity defines response to select folate-cycle targeting drugs in osteosarcoma" |
| 11:50 – 12:00 | Evgeniya Save-Trofimenko (University of Lausanne) "Exploiting the Rab14-Dependent Cell-Penetrating Peptide Trafficking for Targeted Chlamydia Therapy" |
| 12:00 – 12:05 | Closing remarks |
| 10:20 – 12:05 Room G40 | Proteomics in the Era of Multi-Omics Organized by LS ² Section Proteomics. Chaired by Paolo Nanni (FGCZ, University/ETH Zurich) and Loïc Dayon (Nestlé Research, Lausanne) |
| 10:20 – 10:21 | Welcome words from chairs |
| | <i><u>Invited speakers</u></i> |
| 10:21 – 10:43 | Jana Seifert (University of Hohenheim, DE) "Using metaproteomics for livestock microbiome research" |
| 10:43 – 11:05 | Rudolf Aebersold (ETH Zurich) "On the dependency of cellular states on the adaptable modular proteome" |
| | <i><u>Speaker selected from abstracts</u></i> |
| 11:05 – 11:15 | Elena Barletta (Swiss Institute of Bioinformatics) "Proteomics Profiling Reveals Sex-Based Differences and Hormonal Modulation of Recovery in Elite Female Athletes Following Intense Exercise" |

Industry speaker

11:15 – 11:35

Torsten Müller (Bruker AG)



"timsMetabo for Proteomics: Bridging Omics for Deeper Biological Discovery"

Speaker selected from abstracts

11:35 – 11:45

Tatjana Sajic (University Hospital Lausanne)

"Biomarker discovery through in-depth characterisation of the serum protein composition of infant victims of Abusive Head Trauma (AHT)"

11:45 – 12:05

Round table

J.Seifert/R.Aebersold/Torsten Müller

12:05 – 12:05

Closing remarks

12:05 – 13:05

Lunch Break & Industry Exhibition

(Catering for industry representatives will be open from 11:30)

(Speakers and chairs of the afternoon sessions should load their presentations)

Grab your food and visit our booths!

12:05 – 13:05

Physiology Section Board Meeting

Y-22-F-68

(Upon invitation only)

12:05 – 13:05

MCB Section Board Meeting

Y-23-G-04

(Upon invitation only)

12:05 – 13:05

SSEP Council Meeting

Room G95

(Upon invitation only)

13:05 – 14:05

Poster Session II

Poster Gallery

All posters exhibited, please remain near your poster!

14:05 – 15:50 PARALLEL SYMPOSIA SESSION III

14:05 – 15:50 **Mitochondria: Fueling Cells in Life, Death, and Disease**
Room G60 Organized by LS² section MCB. Chaired by **Florent Waltz** (University of Basel) & **Nadia Mercader Huber** (University of Bern)

14:05 – 14:10 **Welcome words** from chairs

14:10 – 14:45 **Invited speaker**
Hauke Hillen (University Medical Center Göttingen, DE)
"Molecular basis of mitochondrial RNA metabolism"

14:45 – 14:55 **Speakers selected from abstracts**
Christian Zimmerli (EPFL Lausanne)
"Structure and function of unknown-intermitochondrial zipper junctions"

14:55 – 15:05 **Johannes Pilic** (ETH Zurich)
"Mitochondrial membrane saturation regulates mitochondrial dynamics"

15:05 – 15:15 **Rosalie Heilig** (University of Glasgow)
"Mitochondrial ubiquitylation during cell death drives anti-tumorigenic pro-inflammatory signalling"

15:15 – 15:25 **Marta Balkota** (University of Geneva)
"Mitochondrial Glutamate Metabolism Coordinates Body Energy Balance and Age-Related Behavioral Changes"

15:25 – 15:35 **Joan Blanco I Fernandez** (University of Lausanne)
"Mitochondrial profiling reveals essential roles for mitochondrial DNA expression and membrane potential maintenance in IL-4/IL-13 macrophages"

15:35 – 15:45 **Angela Ramos-Lobo** (University of Geneva)

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| | "Activating mutation of mitochondrial glutamate dehydrogenase in the mediobasal hypothalamus triggers seizures in mice" |
| 15:45 – 15:50 | Closing remarks |
| 14:05 – 15:50 Room G40 | Are we coming closer to understanding and treating neurodegenerative diseases? Organized by Swiss Network for Dementia Research. Chaired by Daniela Noain (University Hospital of Zurich) & Bogdan Draganski (Inselspital & University of Bern) |
| 14:05 – 14:10 | Welcome words from chairs |
| | <i><u>Invited speakers</u></i> |
| 14:10 – 14:35 | Marc Busche (University of Basel) "Selective vulnerability of neural circuits in early Alzheimer's Disease" |
| 14:35 – 15:00 | Brita Engelhardt (University of Bern) "How brain barriers ensure CNS homeostasis and immune privilege" |
| 15:00 – 15:10 | Discussion |
| 15:10 – 15:15 | Introduction - Swiss Network for Dementia Research |
| | <i><u>Speakers selected from abstracts</u></i> |
| 15:15 – 15:25 | Emanuele Calia (University of Fribourg) "Molecular, genetic and functional screening to identify modifiers of MCI" |
| 15:25 – 15:35 | Violina Dorogan (University of Lausanne) "Unraveling the mechanisms of neuronal communication and disposal mediated by secretory autophagy" |
| 15:35 – 15:45 | Simone Crivelli (University of Lausanne) |

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| | "Overexpression of UCP4 in astrocytes induces fatty acid oxidation for mitochondria respiration fuelling" |
| 15:45 – 15:50 | Closing remarks |
| 14:05 – 14:55 Room G95 | Mini-symposium: Bioinformatics Driving the One Health Concept Organized by LS ² Intersection Bioinformatics. Chaired by Katja Baerenfaller (SIAF and University of Zurich) and Claudia Lang (University Hospital Zurich) |
| 14:05 – 14:07 | Welcome words from chairs |
| 14:07 – 14:32 | <u><i>Invited speaker</i></u> Emma Hodcroft (Swiss TPH & University of Basel) "Pathoplexus: building a new kind of pathogen database" |
| 14:32 – 14:43 | <u><i>Speakers selected from abstracts</i></u> Carina Osterhof (University of Fribourg) "A phylogenetic ancient, chimeric globin links oxygen sensing and flagellar motility" |
| 14:43 – 14:54 | Alexandros Taousanidis (University of Bern) "Decoding a Structural Paradox in GH1: How Novel Mutations Drive Growth Hormone Deficiency Beyond Receptor Binding" |
| 14:54 – 14:55 | Closing remarks |
| 15:00 – 15:50 Room G95 | Mini-symposium: Extracellular vesicles in Cardiovascular Therapeutics Organized by LS ² Intersection Cardiovascular Biology. Chaired by Marie-Noelle Giraud (University of Fribourg) and Giovanni G. Camici (University of Zurich) |
| 15:00 – 15:02 | Welcome words from chairs <u><i>Invited speaker</i></u> |

| | |
|--|---|
| 15:02 – 15:27 | Philippe Menasché (Hôpital Européen Georges Pompidou, FR) "Extracellular vesicles for the treatment of heart failure: a translational experience" |
| <u><i>Speakers selected from abstracts</i></u> | |
| 15:27 – 15:35 | Oksana Iamshanova (University of Fribourg) "Bone Marrow-Derived Secretome Modulates Macrophage Polarization to Enhance Cardiac Repair" |
| 15:35 – 15:43 | Nathalie Rosenblatt-Velin (Lausanne University Hospital) "Targeting Natriuretic Peptide Pathways to Modulate Heart and Aortic Remodeling" |
| 15:43 – 15:51 | Soumaya Es Sarhdaoui (University of Geneva) "Role of S100A4 in Atherosclerosis Development: Focus on S100A4-expressing Cells" |
| 15:51 – 15:51 | Closing remarks |
| 15:50 – 16:10 | Coffee Break (sponsored by Leica-Microsystems) & Industry Exhibition |
| 16:10 – 16:40 Lecture hall G45 | Friedrich Miescher Award 2026 Lecture Omaya Dudin (University of Geneva) |



Introductory words from **Daniel Legler** (Biotechnology Institute Thurgau at the University of Konstanz)



"Exploring multicellular developmental diversity at the root of animals & beyond"

All animals develop from a single-celled zygote and undergo complex morphogenetic processes to form multicellular organisms. These processes are regulated by intrinsic and extrinsic factors that drive key developmental events, such as symmetry breaking, cell division, and differentiation. Despite the remarkable conservation of these pathways across species, the evolutionary origins of these morphogenetic mechanisms remain unclear. A major challenge in addressing this question is the limited availability of microscopy and cell biological data from key protists that occupy pivotal phylogenetic positions in the eukaryotic tree, including those identified as the closest unicellular relatives of animals. In this talk, I will show how close animal relatives such as Ichthyosporeans display strikingly diverse developmental strategies, from coenocytic growth with cellularization to cleavage-based colony formation. These systems provide unique opportunities to probe how cells coordinate in space, establish polarity, and differentiate, posing critical questions about the evolutionary transition to multicellularity. Finally, I will outline how we aim to move beyond animal origins by implementing, optimizing, and developing Expansion Microscopy (ExM) to study a broader diversity of microbial eukaryotes. This approach allows us to uncover the diversity of cellular forms, cytoskeletal architectures, and life cycles across lineages, providing new perspectives on how distinct multicellular developmental programs emerge. Our long-term goal is to establish an Expansion Microscopy Atlas of Microbial Eukaryotes, creating a framework to identify general principles of multicellular transitions across eukaryotic life.

16:40 – 17:10 Award Ceremony

Lecture hall G45

Prizes:

LS² Honorary membership 2026: Pierre Cosson

PIs of Tomorrow: Jury and Public Prize

YSS Best Talk Prizes

Best poster prizes:

The Metabolic Code of Life (Systems Biology)

From Disorder to Function (Biophysics)

Ion Channels and Membrane Transporters (ICMT)

Chemical Biology and Drug Discovery by Division of Medicinal Chemistry & Chemical Biology (DMCCB)

Advances in Volumetric Microscopy (Microscopy)

Experimental Pharmacology by SSEP

Proteomics in the Era of Multi-Omics (Proteomics)

Mitochondria: Fueling Cells in Life, Death, Disease (MCB)

Neurodegenerative Diseases by The Synapsis Foundation

Bioinformatics Driving the One Health Concept (Bioinformatics)
Extracellular Vehicles in Cardiovascular Therapeutics (CV Biology)
Best Poster Design: Public prize
FEBS Letters Best Poster Prize
Exhibition quiz prizes

17:10 – 17:15

Lecture hall G45

Closing Remarks & Acknowledgements

Tatjana Kleele (Chair of LS² AM2026, ETH Zurich)

Alexis Jourdain (Chair of LS² AM2026, University of Lausanne)

Simon Sprecher (LS² President, University of Fribourg)



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Our sponsors of PIs of Tomorrow:

Jury winner: Nikon Camera (value of 500 CHF) & 1500 CHF



Public winner: 1500 CHF

The other two finalists will be awarded a free LS² membership for 2026.



Best talks at Young Scientists' Satellite:



1st Prize: 100 CHF sponsored by Roche and a Nikon camera
Runner up: 200 CHF sponsored by Roche

Poster prizes

Experimental Pharmacology: best poster prize: 500 CHF, sponsored by the Swiss Society of Experimental Pharmacology (SSEP)



Chemical Biology and Drug Discovery:
best poster prize: 300 CHF, sponsored by
Division of Medicinal Chemistry & Chemical Biology



SCS
Swiss Chemical
Society

Division of
Medicinal Chemistry
& Chemical Biology

Neurodegenerative Diseases:
best poster prize: 300 CHF,
sponsored by The Synapsis Foundation



FEBS Letters Best Poster Prize: 200 EUR

FEBS
Letters

Best Poster Design: Public prize: 250 CHF, sponsored
by Mentor for Scientists (Greta Faccio)



Other poster prizes – sponsored by LS² (300 CHF each)

Posters

The LS² Annual Meeting 2026 offers on-site poster space to all participants who submitted an abstract (including those selected for a talk).

Two dedicated **poster sessions** will take place on:

Wednesday, 11th of February, 13:30 to 14:30

Thursday, 12th of February, 13:05 to 14:05.

All posters must be displayed during both sessions; please remain near your poster!

Vote here for the Best Poster Design Prize:

Voting is possible until 12.02.2026, 16:00



Posters sorted by the symposia & by family name:

| Symposia | Poster Nr. |
|--|-------------------|
| The Metabolic Code of Life | 1-14 |
| Advances in Chemical Biology and Drug Discovery | 15-30 |
| From Disorder to Function | 31-40 |
| Ion Channels and Membrane Transporters | 41-46 |
| Advances in Volumetric Microscopy | 47-54 |
| Advancing Cancer Therapeutics Through Patient-Derived Complex Models | 55-62 |
| Proteomics in the Era of Multi-Omics | 63-75 |
| Mitochondria: Fueling Cells in Life, Death, and Disease | 76-95 |
| Are we coming closer to understanding and treating neurodegenerative diseases? | 96-102 |
| Bioinformatics Driving the One Health Concept | 103-106 |
| Extracellular vesicles in Cardiovascular Therapeutics | 107-111 |

Symposium: The Metabolic Code of Life

1

Uridine-sensitized screening identifies NUDT5 as a regulator of nucleotide synthesis

Alexandre-Strefeler, Abigail
University of Lausanne

Labagnara, Marco
EPFL Lausanne

2

A comprehensive genome-scale map of transcription factor-mediated metabolic rewiring in lung cancer via CRISPR and high-throughput metabolomics

Bors, Sebastian
University of Basel

6

Coordinated Scaling of Germline Growth Ensures Reproductive Timing Across Environments

Lenart, Peter
University of Bern

7

FBXW7 alleviates c-MYC repression of pyruvate carboxylase to support metabolic flexibility

Lisci, Miriam
University of Lausanne

3

Exploring the molecular association of androglobin with the cilium-dependent sonic hedgehog pathway

Derivaz, Océane
University of Fribourg

8

Nucleus accumbens subcircuits regulating reward and aversion behavior

Marinescu, Alina
ETH Zurich

4

Characterizing the pentose phosphate pathway in the endoplasmic reticulum and uncovering functional interactions with its cytosolic counterpart

Kyburz, Sarina
University of Basel

9

Identification of oligodendrocyte transcriptional signatures in Western diet-induced pain

Mazurkiewicz, Marta
University of Zurich

5

Optogenetic tripwires resolve models of how cells count DNA breaks

10

Targeting Arginase 2 Prevents High Salt-Induced Cardiac Dysfunction and Fibrosis

Potenza, Duilio Michele
University of Fribourg

11

Systematic phosphoproteomics of an analog-sensitive kinase library defines context-specific signalling networks

Separovich, Ryan
ETH Zurich

12

Integrated Functional and Structural Analysis of Eleven CYP21A2 Variants of Uncertain Significance Resolves their Pathogenic Role in Congenital Adrenal Hyperplasia.

Xu, Yingtong
University of Bern

13

Uncovering the role of ERMP1 in renal physiology and renal interstitial fibrosis

Yousef, Basel
University of Geneva

14

Hexose-6-phosphate dehydrogenase drives metabolic reprogramming and tumorigenicity in MDA-MB-231 triple-negative breast cancer cells

Zogg, Michael
University of Basel

Symposium: Advances in Chemical Biology and Drug Discovery

15

Exploring the regulation of microtubule detyrosination and polyglutamylation through semi-synthetic tubulin

Chang, Po-Han
EPF Lausanne

16

Development of a Bioplateform Based on Genetically Modified *Nicotiana tabacum* L. (UGT/IAGLU) for the Production of High-Value Viral Antigenic Proteins.

Chemezova, Anna
University of Pécs

17

Covalent Inactivation of PI3K α : Novel Paradigm for Isoform-Resolved Pharmacology

Constantin, Theodora
University of Basel

18

Novel photocage for the targeted delivery of native lipid species

Domeniconi, Gary
EPF Lausanne

19

Highly multiplexed imaging uncovers combinatorial perturbation effects of small molecule treatments

Symposium: Advances in Chemical Biology and Drug Discovery

Groot, Kelvin

University of Zurich

20

A non-disruptive compound to enhance cytosolic delivery of cell-penetrating peptides

Hallaj, Ali

University of Lausanne

21

Characterization of the Endocytic Pathway taken by Cell-Penetrating Peptides

Hornfeck, Sarah

University of Lausanne

22

Nanoplastics penetration across the blood-brain barrier

Ianos, Annemarie

Baruch College, City University of New York

23

Microtubules in Breast Cancer: Exploring the α/β -Tubulin Toggle Switch and Its Implications in Human Breast Cancer

Ianos, Annemarie

Baruch College, City University of New York

24

Hijacking cancer communication: microRNA and EV lipid changes highlight new targets in TNBC

Majchrzak, Oliwia

University of Geneva

24

Hijacking cancer communication: microRNA and EV lipid changes highlight new targets in TNBC

Majchrzak, Oliwia

University of Geneva

25

Site-specific interactions of transcription factors with chromatin: Insights on glucocorticoid receptor influence on gene regulation at the single molecule level

Majerus, Enguerran

EPFLausanne

26

One Platform, Endless Possibilities: From Gene Synthesis to Biologics and Therapeutics

Meyer, Andreas

GENEWIZ from Azena Life Science

27

Locking onto PI3K α : Covalent probes to overcome limited efficacy and therapeutic resistance to PI3K α inhibitors

Orbegozo, Clara

University of Basel

28

A synergistic low-dose combination targeting MAPK signalling and mitosis demonstrates enhanced efficacy and reduced toxicity in colorectal cancer models

Turan, Ilayda

University of Geneva

29

Vascularized In Vitro Liver-on-Chip for Disease Modeling and Drug Testing

Vahdani, Negar

University of Bern

30

Species-specific diacylglycerol signaling – peeking behind the mask of lipid classes

Wedemann, Linda

EPFL Lausanne

Symposium: From Disorder to Function: The Evolving Landscape of IDPs and Condensates

31

Elucidating the Hsp90 chaperone cycle with single-molecule resolution

Bothe, Sarah

University of Basel

32

Uncovering how positively charged polypeptides contribute to innate immunity in yeast.

Bourquard, Théodore

ETH Zurich

33

Characterization of dosage compensation specific nuclear bodies

Erkan, Sinem

University of Bern

34

Condensation of satellite DNA by the disordered protein D1 safeguards nuclear mechanostability

Frühbauer, Benjamin

ETH Zurich

35

Dissecting Patient-Specific POR Mutations: A CRISPR-KO Platform for Quantifying Steroidogenic Defects

Matveeva, Anna
University of Bern

36

Regulating the Giants: Single-Molecule Insights into the Transcription and Processing of Large mRNAs in Muscle Cells

Ortale, Aurelio
University of Basel

37

Biomolecular condensates as master regulators of cell fate decisions

Peskett, Thomas
ETH Zurich

38

Loss of nucleolar integrity triggers EMT via transcriptional reprogramming

Rawat, Prashant
ETH Zurich

39

A Comprehensive Resource of Transcription Factor Interactions and Chromatin Binding in Mouse Embryonic Stem Cells

Rodriguez Arias, Daniel
Friedrich Miescher Institute

40

A cross-linking mass spectrometry method (LLPS-CLIR-MS) for characterizing protein-RNA interactions in phase-separated systems

Smok, Izabela
ETH Zurich

Symposium: Ion Channels and Membrane Transporters: At the Interfaces That Fuel Life

41

Optimizing MINFLUX Performance: A Pipeline for Achieving Single-Digit Nanometer Super-Resolution in Biological Samples

Bokhobza, Alexandre
University of Bern

42

Assessing the role of PIEZO1 channels in phagocytosis

Bourdin, Mathilde
University of Geneva

43

Identification of small molecule Piezo1 inhibitors

Jaquet, Vincent
University of Geneva

44

Functional characterization of store-operated Ca²⁺ entry in the human placenta-derived extravillous trophoblast cell line HTR8/SVneo

Jarrin, Sofia
University of Bern

45

Relevance of the SLC15A4/TASL complex for IRF5-mediated Th1 responses

Monguió-Tortajada, Marta

University of Lausanne

46

Role of mechanosensitive Piezo1 channels in phagocytosis by neutrophils

Rosa, Nicolas

University of Geneva

Symposium: Advances in Volumetric Microscopy: from Method Development to Biological Applications

47

Insights into whole tissue clearing and labelling protocols for various samples in a microscopy facility context

Batti, Laura

Wyss Center for Bio and Neuro Engineering

48

Cryo-FIB ET uncovers novel yeast membrane compartments involved in lipid metabolism.

Bauda, Elda

University of Geneva

49

Imaging Beyond Uranyl: A Systematic Evaluation of Safer Contrasting Stains for High-Quality EM of Organic Specimens

Kissling, Vera Maria

Empa

50

Characterization of anterior-posterior symmetry-breaking dynamics in murine embryos using whole-mount multiplexing protein mapping

Hornbacher, Ruth

University of Zurich

51

Microsecond Time-Resolved Cryo-EM Based on Jet Vitrification

Hruby, Jakub

EPFL Lausanne

52

3D Organization of Guanine Crystal Stacks in Zebrafish Iridophores

Mikhajlov, Oleg

University of Geneva

53

Comparative Characterization of Microscope Detectors Using Multi-Intensity Calibration Beads

Vinit, Angélique

EPFL Lausanne

54

Microscopy Innovation Platform: development and service in imaging and sample preparation

Vladimirov, Nikita

University of Zurich

Symposium: Advancing Cancer Therapeutics Through Patient-Derived Complex Models

55

Integrating hypoxia and stroma cells into more physiological 3D models for renal cancer therapy screenings

Carraz, Zoé

University of Geneva

56

Single enzyme activity defines response to select folate-cycle targeting drugs in osteosarcoma

Farnhammer, Fiona

University Children's Hospital Zurich

57

Leveraging Multi-Organ Toxicity Models for Drug Combination Therapy Safety

Gubala, Jakub

University of Geneva

58

Interpreting the function of germline missense variants for the

BAP1 gene using protein centric information.

Marchal, Pierre

University of Bern

59

MRTX1133 resistant cells rely on EZH2 activity to sustain their aggressive traits and avoid cell death

Pinho, Gonçalo

University of Bern

60

Exploiting the Rab14-Dependent Cell-Penetrating Peptide Trafficking for Targeted Chlamydia Therapy

Save-Trofimenco, Evgeniya

University of Lausanne

61

Monocyte Arginase-II promotes breast cancer progression through WNT pathway activation.

Sundaramoorthy, Santhoshkumar

University of Fribourg

62

Novel DAPK-DMTF1 α -p53 cell death axis

Xie, Xiaochen

University of Bern

Symposium: Proteomics in the Era of Multi-Omics

63

Spy-BioID: Identifying context-specific protein interactions through stabilized ternary complexes.

Athale, Muktesh

Tampere University, Finland

64

Proteomics Profiling Reveals Sex-Based Differences and Hormonal Modulation of Recovery in Elite Female Athletes Following Intense Exercise

Barletta, Elena

Swiss Institute of Bioinformatics

65

A Plasma Proteomic Aging Clock Reflects Reversal of Accelerated Aging in HIV Patients Under Antiretroviral Therapy

Bartl, Lena

University Hospital Zurich

66

Extracellular Vesicle Isolation and Proteomics: Lessons learned from Gottingen Minipig plasma

Heller, Manfred

University of Bern

67

Predictions of enzyme cost-optimal metabolic strategies at genome-scale

Le Gac, Constance

ETH Zurich

68

Spatial Biology at the Center for Microscopy and Image analysis, UZH: from single molecule to tissue microenvironment

Macickova, Eliska

University of Zurich

69

Harnessing the Power of Multiomics from Fresh and Fixed Patient Sample Characterization

O'Hara, Andrea

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70

Streamlining Metaproteomic Sample Preparation for Microbiome Analysis of Rumen Samples with Liquid Chromatography-Mass Spectrometry

Pedersen, Ane Laura Fineid

Neslte Research

71

Biomarker discovery through in-depth characterisation of the serum protein composition of infant victims of Abusive Head Trauma (AHT)

Sajic, Tatjana

University Hospital Lausanne

72

Spatial Biology at the Center for Microscopy and Image Analysis, UZH

Schilling, Nicolas

University of Zurich

73

NovoGlyco: exploring prokaryotic protein glycosylation

Soic, Dinko

ETH Zurich

74

The functional landscape of the human ubiquitinome

van Gerwen, Julian

ETH Zurich

75

Long-term Prognostic Significance of BNP Dynamics after Transcatheter Aortic Valve Implantation: Insights from Two Prospective Cohorts

Wenzl, Florian A

University of Zurich

Symposium: Mitochondria: Fueling Cells in Life, Death, and Disease

76

The mitochondrial arginase type 2 regulates monocyte integrin expression and transendothelial migration in atherogenesis

Ajalbert, Guillaume

University of Fribourg

77

Deciphering the coordination of lysosomes and FIS1 in mediating mitochondrial peripheral division

Arima, Yumi

ETH Zurich

78

Mitochondrial beta-cell glutamate pathway drives metabolic rewiring in pancreatic islets during the onset of prediabetes

Baez, Nicolas

University of Geneva

79

Brain Mitochondrial Glutamate Metabolism Coordinates Body Energy Balance and Age-Related Behavioral Changes

Balkota, Marta

University of Geneva

Symposium: Mitochondria: Fueling Cells in Life, Death, and Disease

80

Tiny Plastics, Big Problems: PET Nanoplastics Disrupt Mitochondria and Threaten Living Systems

Bauri, Samir

National Institute of Technology Rourkela

81

Mitochondrial profiling reveals essential roles for mitochondrial DNA expression and membrane potential maintenance in IL-4/IL-13 macrophages

Blanco I Fernandez, Joan

University of Lausanne

82

Astrocytic Mitochondrial Responses to Blue Light: From Membrane Potential to Metabolic Shifts

Brügger, Talayeh

University of Lausanne

83

Pseudouridine modifications may regulate structure and protein recognition in mitochondrial mRNAs

Dwibedy, Sushree Lipsa Lopamudra

National Institute of Technology Rourkela

84

The Cardiolipin-Metabolism Axis: A Driver of Hypoxia-Mimetism and

Chemoresistance in Lung Adenocarcinoma

Falco, Simone

University of Bern

85

An updated inventory of genes essential for oxidative phosphorylation identifies a mitochondrial origin in familial Ménière's disease.

Harhai, Marcell

University of Lausanne

86

Mitochondrial ubiquitylation during cell death drives anti-tumorigenic pro-inflammatory signalling

Heilig, Rosalie

University of Glasgow

87

Identification and characterization of *Legionella* effectors targeting the mitochondrial network

Jäggi, Tobias

University of Zurich

88

The Mechanism and Function of Mitochondrial Remodelling Through Extracellular Vesicles

Kitanovic, Ana

ETH Zurich

89

Pearling drives mitochondrial genome homeostasis

Landoni, Juan Cruz

EPF Lausanne

90

Investigating the role of mitochondrial respiratory supercomplexes in situ

Melnik, Mariia

University of Basel

91

How does mitochondrial remodeling support macrophage function?

Pflästerer, Tim

ETH Zurich

92

Mitochondrial membrane saturation regulates mitochondrial dynamics

Pilic, Johannes

ETH Zurich

93

Activating mutation of mitochondrial glutamate dehydrogenase in the mediobasal hypothalamus triggers seizures in mice

Ramos-Lobo, Angela

University of Geneva

94

Homeostasis of mitochondrial populations in human neurons

Soutschek, Michael

ETH Zurich

95

Structure and function of unknown-intermitochondrial zipper junctions

Zimmerli, Christian

EPF Lausanne

Symposium: Are We Coming Closer to Understanding and Treating Neurodegenerative Diseases?

96

Molecular, genetic and functional screening to identify modifiers of MCI

Calia, Emanuele

University of Fribourg

97

Overexpression of UCP4 in astrocytes induces fatty acid oxidation for mitochondria respiration fuelling

Crivelli, Simone

University of Lausanne

98

Unraveling the mechanisms of neuronal communication and disposal mediated by secretory autophagy

Dorogan, Violina
University of Lausanne

99
The local regulation of mitochondrial homeostasis during neurodevelopment

Groza, Raluca
ETH Zurich

100
Multifaceted Roles of SATB2: Literature Review and Database Analysis

Jahn, Joanna
University of Birmingham

101
Light mediated CDK5 repression and its potential effects on the circadian clock and the Alzheimer's disease.

Mitsikosta, Spyridoula
University of Fribourg

102
Profiling Non-Coding RNA Expression in Brain Tissue via In Situ Hybridization

Pohl, Hartmut
Enzo Life Sciences, Inc.

Symposium: Bioinformatics Driving the One Health Concept

103
conformeR: Conformalized differential expression analysis of multi-condition single-cell data

Leclerc, Justine
University of Zurich

104
TimeFlow 2: an unsupervised cell lineage detection method for flow cytometry data

Liarou, Margarita
University of Geneva

105
A phylogenetic ancient, chimeric globin links oxygen sensing and flagellar motility

Osterhof, Carina
University of Fribourg

106
Decoding a Structural Paradox in GH1: How Novel Mutations Drive Growth Hormone Deficiency Beyond Receptor Binding

Taousanidis, Alexandros
University of Bern

**Symposium: Extracellular Vesicles
in Cardiovascular Therapeutics**

107

**Role of S100A4 in Atherosclerosis
Development: Focus on S100A4-
expressing cells**

Es Sarhdaoui, Soumaya

University of Geneva

108

**Epigenetic Regulation of the ACE
System Shapes Aerobic Muscle
Phenotype and Cardiovascular
Exercise Response**

Flück, Martin

University of Fribourg

109

**Bone Marrow-Derived Secretome
Modulates Macrophage**

**Polarization to Enhance Cardiac
Repair**

Iamshanova, Oksana

University of Fribourg

110

**Targeting Natriuretic Peptide
Pathways to Modulate Heart and
Aortic Remodeling**

Rosenblatt-Velin, Nathalie

CHUV

111

**Alarmin Protein S100A4 in
Atherosclerosis: Dysregulated
Immune-Vascular Reactions**

Xu, Ben (Yiming)

University of Geneva

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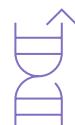
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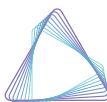


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13 – 14 January. Bern

35th Cytomeet
13 January. Bern

Worldwide Sodium Channel Conference 2026
2 – 4 February. Grindelwald

LS² Annual Meeting & YSS
10 – 12 February. Zurich

Swiss Proteomics Meeting
23 – 24 April. Bern

Theory across Biology
12 June. Bern

Swiss Drosophila Meeting
29 June. Geneva

13th Swiss Microscopy Core Facility day
Aug/Sept.

14th Cell Migration Retreat
End of Summer

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31 Aug – 4 September. Geneva



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