csem
FACING THE CHALLENGES OF OUR TIME

5th Next-gen organ-on-chips & organoids



Bernexpo • January 20-21, 2027

Welcome to Bern !



Dear participants,

We are thrilled to welcome you to the 5th edition of the Next Gen Organ-on-Chips & Organoids Workshop, taking place this year in Bern, a vibrant hub for clinical translation and MedTech innovation.

This year, the workshop places particular emphasis on translation, exploring how organ-on-chip and organoid technologies can move from promising models toward broader adoption and ultimately clinical applications. Across two days, the program will bring together pharma and biotech leaders, clinicians, technology providers, regulatory experts, start-ups, and leading research organizations to exchange perspectives, showcase innovations, and address the challenges that still need to be overcome.

Key themes will include automation and standardization, artificial intelligence, single-cell omics, women's health, advanced disease models, and emerging applications such as space biology. Together, these topics highlight how the convergence of biology, engineering, and digital technologies is enabling more predictive, scalable, and human-relevant models, while accelerating their translation into real-world applications.

Beyond the scientific program, the workshop provides a unique platform to connect across disciplines, explore emerging technologies, and build bridges between research, technology development, pharma, biotech, and clinical applications. During the breaks, we encourage you to explore the exhibition area, discover the latest technologies and solutions, and connect with the organizations driving innovation in the field.

We extend our gratitude to the Scientific Committee for shaping such a diverse and forward-looking program. We look forward to two days of inspiring discussions, new connections, and collaborations that will help translate the next generation of organ-on-chip and organoid technologies into real-world impact.

Sincerely yours,

Gilles Weder & Samantha Paoletti

Scientific Committee

- Lauriane Cabon, Roche IHB
- Kelly Evans, Astrazeneca
- Olivier Frey, Insphero
- Olivier Guenat, University of Bern
- Massimo Mastrangeli, Technical University Delft
- Samantha Paoletti, CSEM
- Adrian Roth, Roche
- Gilles Weder, CSEM

Diamond sponsor

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Scientific program day 1

Wednesday January 20, 2027

09:30 **Registration & coffee**

10:00 ***Start of the event***

Opening
Gilles Weder & Samantha Paoletti, Head Research & BD Life Sciences, CSEM

WOMEN & GIRLS HEALTH

10:20 ***The unmet clinical need***
Michael Mueller, Clinical Director and Head of the Department of Obstetrics and Gynecology, Inselspital

10:40 KEYNOTE SPEAKER

Title TBD

Linda Griffith, Director Center for Gynepathology Research, MIT

11:10 ***Free slot***

AUTOMATION & STANDARDIZATION: THE FOUNDATION FOR SCALABLE BIOTOOLS

11:20 ***Session opening***
Olivier Frey, COO/CTO, Insphero

11:25 ***Title TBD***
Nadine Thaler, Head of Business Area Cell Biology & Head of MarCom Robotics EMEA, Hamilton

11:35 ***Title TBD***
Mamun Majumder, Associate Director Safety Omics & AI, Astrazeneca

11:45 ***Title TBD***
Daniel Ziemianowicz, Systems Biology Scientist, More Science

11:55 ***Title TBD***
Guilhem Tourniaire, Chief Business Officer, Bionomous

12:05 ***Exhibition opening***
Stéphanie Boder, Group Leader, CSEM

12:15 **Lunch & exhibition (including community picture)**

NEW APPROACH METHOLOGIES

13:30 ***Session opening***
TBD

13:35 ***Title TBD***
Nathalie Maubon, CEO, Organisyl Group

13:45 ***Title TBD***
Markus Mühlemann, CEO, Onconix

13:55 ***Title TBD***
Ellen Boelen, Director Business Development, LiveDrop Bio

14:05 ***Title TBD***
Joshua Bagley, CSO, a:head bio

Scientific program day 1

14:15	*Title TBD* Paola Occhetta, Co-founder and CEO, BiomimX	
14:25	*Title TBD* Enrique Sanchez, General Manager, Bflow	
	SCIENCE SLAM	
14:35	*Science slam opening* Gilles Weder, Head Research & BD Life Sciences, CSEM	
14:40	*Winner of the Science Slam 2025 FHNW* Saskia Schmidt, Associate Research Fellow, FHNW & Laura Suter-Dick, Prof, FHNW	
14:50	*Short pitches*	
15:15	*Award ceremony*	
15:20	**Coffee break & exhibition**	
	SCALING ADOPTION	
16:00	*Session opening* TBD	
16:05	*Title TBD* Henriette Lanz, VP Biology, Mimetas & Thomas Hankemeier, Prof. of Translational Epidemiology & Mimetas Co-Founder, Leiden university	
16:15	*Title TBD* Nina Hobi, CEO, Alveolix	
16:25	*Title TBD* Thibault Honegger, Netri	
16:35	*Title TBD* Adrian Rea, Director of Sales, Europe, CN Bio	
16:45	*Title TBD* Ludovico Buti, Associate Science Director, IQVIA	
	CLOSING	
16:55	*Trust or die* Rachel Burrell-Cook, Managing Director, ThreeTenSeven	
17:15	*Apero riche & exhibition*	
19:00	*End of first day*	

Scientific program day 2

Thursday January 21, 2027

08:30 **Registration & coffee**

09:00 ***Opening day 2***
Olivier Guenat, Prof. and Member of the Extended Management ARTORG Center, UNIBE

SPACE BIOLOGY

09:05 ***Session opening***
Paulo Pinheiro, Managing Director, Space Systems innovation platform

09:10 ***Title TBD***
Jana Stoudemire, Chief Commercial Officer, Innovian Space

09:20 ***Title TBD***
Aqeel Shamsul, Founder and CEO, Frontier Space

09:30 ***Title TBD***
Aya Aly, Technical Programmes & Partnerships Lead, Kayser Space

09:40 ***Title TBD***
Marcel Egli, Head of the Institute of Medical Engineering, HSLU

09:50 ***Discussion moderated by SSIP***

SINGLE CELL OMICS

10:00 ***Session opening***
TBC

10:05 ***The unmet clinical need***
Crisztian Homiscko, Clinician scientist, CHUV

10:20 KEYNOTE SPEAKER

The Future of Biology - 10x Perspective

Ben Hindson, Co-Founder and Chief Scientific Officer, 10X Genomics

10:50 ***Free slot***

11:00 **Coffee break & exhibition**

Scientific program day 2

ARTIFICIAL INTELLIGENCE

11:30 *Session opening*
TBD

11:35 *Roche IHB*

11:45 *Title TBD*
Yannik Severin, Prevision Medicine

11:55 *Title TBD*
Tim Heinemann, Group Leader, CSEM

12:05 *Title TBD*
Christopher Trummer, CEO, Pixlbio

12:15 *Free slot*

12:25 *Free slot*

12:35 **Lunch & exhibition**

13:45 INVITED SPEAKER

Title TBD

Jan Lichtenberg, CEO, Insphero

PANEL: THE FUTURE IS HUMAN. WHAT'S HOLDING US BACK?

14:00 *Panel opening by MilliporeSigma*
Haiying Grunenwald, Head Biology R&D, MilliporeSigma

Panelist 1: Interpharma
Speaker TBC

Panelist 2: CSEM
Speaker TBC

Free slot

Free slot

10 MINUTES OF TRUTH

14:30 *With Michael Altorfer, CEO, Swiss Biotech Association*
Samantha Paoletti, Head Research & BD Life Sciences, CSEM

14:50 *What's next?*
Rachel Burrell-Cook, Managing Director, ThreeTenSeven

15:00 *Closing*

15:15 *End of the event*

Venue

This event will take place on January 20-21, 2027, at Bernexpo, Mingerstrasse 6, 3014 Bern (Access map)

www.csem.ch/events
bernexpo.ch/fr/anreise-bern













Memorable moments from 2025

2025 edition aftermovie



















Science slam



What is a Science Slam?

Imagine a stage where 8 PhD students captivate the audience with their research, presented in a short and entertaining way. This is your chance to learn about the latest breakthroughs across various domains in a fun and informative atmosphere, all while supporting young researchers.

- At the end of the Science Slam, the audience will vote to crown the Science Slam Winner!
- The winner will be invited as a speaker at the next edition.

As a Diamond sponsor, you have a unique opportunity to show your support for young researchers and gain visibility in front of the entire audience during your introductory pitch.