



25th HFSP AWARDEES MEETING

8–10 July 2026 | Geneva, Switzerland



International

**Human Frontier
Science Program**

Organization

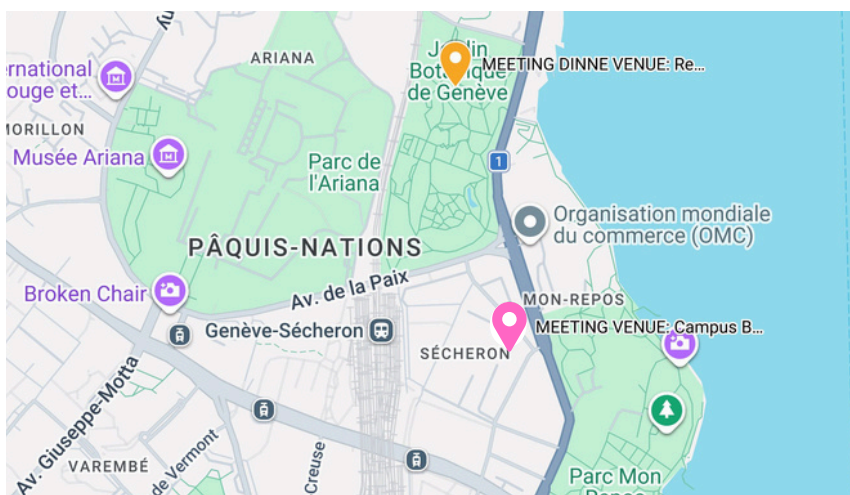
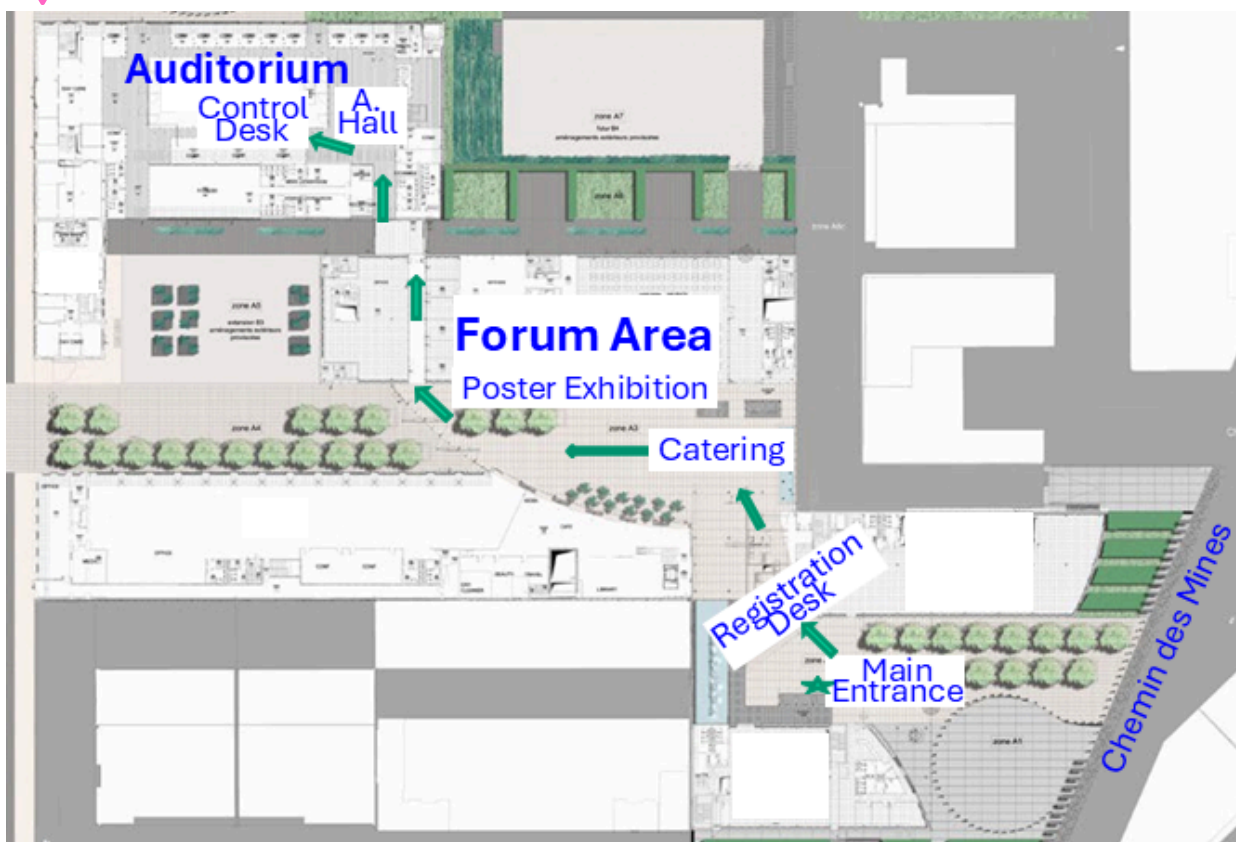
PRACTICAL INFORMATION

Venues

Meeting, Welcome Reception Venue & Farewell Cocktail (Tuesday to Friday, 7-10 July):
Campus Biotech Geneva, Chem. des Mines 9, 1202 Genève, Switzerland

Meeting Dinner Venue (Wednesday, 8 July):
Restaurant Amarante, Chem. de l'Impératrice 1, 1292 Pregny-Chambésy, Switzerland

 Campus Biotech Geneva: Building Plan



 Restaurant Amarante

 Campus Biotech Geneva

The HFSP Awardees Meeting venues are conveniently located a short walk from each other.

Registration and Information Desk

Participants can collect their meeting badge from the HFSP registration desk at the Campus Biotech Geneva (Welcome Reception & Meeting Venue) on Tuesday, 7 July 2026, from 14:00 onwards, and on Wednesday, 8 July 2026, from 08:30 onwards.

For general information, delegates can also make inquiries at the registration desk. Printed programs and other meeting materials can be collected at these desks.

Luggage Storage

Participants are encouraged to leave luggage in their hotel since storage at the venue is limited.

WIFI

The venue offers free Wi-Fi with Eduroam connection. For those without access to Eduroam, the Campus Biotech network is available via a guest profile. To use it, participants will need to create an account. We recommend that participants use the Eduroam network when possible.

Photography

Many awardees present unpublished data. Therefore, HFSP reminds participants not to photograph slides containing data during oral presentations or on posters without the author's permission.

Recordings

All the HFSP Awardees Meeting sessions will be recorded. HFSP is aware of participants presenting unpublished data. Therefore, we will send specific emails to all presenters to request their consent to publication. HFSP does not publish any talks, nor will it use any recordings from this event without the presenter's explicit agreement.

Social Media

We encourage participants to post content about the meeting on social media. Please consider using the hashtag **#HFSPmtg2026** in posts and tagging the HFSP pages using the following handles:

X: @HFSP

Bluesky: @hfspo.bsky.social

LinkedIn: @human-frontier-science-program-hfsp

Facebook: @HFSP

Plenary Lectures, Oral Sessions and Poster Teaser Talks

A Control Desk will be available in the Auditorium. All presenters must load their presentations at the Control Desk at the latest during the break before their presentation. Presenters cannot use their laptops to present.

The Control Desk will be open each morning from 08:30 until the end of the day.

PowerPoint presentations should be made in 16:9 screen format. Please note that the on-site display will use PC screens. We therefore suggest that you check your presentation on Windows prior to uploading.

Poster Sessions

The program includes three poster sessions, one per day. Participants should refer to the poster listing in the meeting program for the assigned session/day and the number of their posters. See pages 12 to 17. Pins to fix the posters will be provided at the poster boards.

Posters should be installed on the poster board corresponding to the number in the program on the morning of the assigned day and removed by the end of that day.

Please note that posters will be displayed in the Forum Area.

Lunch and Coffee Breaks

Coffee breaks, lunches and the cocktail receptions will be served in the Forum of the Campus Biotech Geneva.

Social Program

Tuesday, 7 July 2026: 18:30 Welcome Reception at the Campus Biotech Geneva.

Wednesday, 8 July 2026: 18:45 Conference Dinner Reception at the Restaurant Amarante*.

Friday, 10 July 2026: 18:00 Farewell Cocktail at the Campus Biotech Geneva.

*Please note the Restaurant Amarante is located inside the Geneva Botanical Garden. The Garden is open and free to visit until 19:00. Please arrive at the premises in advance to avoid any access issues. After dinner, a staff member will accompany the participants to the designated gate for departure from the Garden.

PROGRAM

Wednesday, 8 July 2026

8:30–9:00 | REGISTRATION | ENTRY HALL

9:00–9:15 | OPENING REMARKS | AUDITORIUM

Yoshihiro Yoneda, President of HFSP

Pavel Kabat, Secretary-General of HFSP

9:15–9:30 | HFSP NAKASONE AWARD CEREMONY | AUDITORIUM

Yoshihiro Yoneda, President of HFSP

Pavel Kabat, Secretary-General of HFSP

Erin Schuman, Max Planck Institute for Brain Research in Frankfurt

09:30 –10:30 | NAKASONE LECTURE | AUDITORIUM

The messages and machines for protein production at synapses

Erin Schuman, Max Planck Institute for Brain Research in Frankfurt

10:30–11:00 | COFFEE BREAK | FORUM AREA

11:00 –12:20 | ORAL SESSION 1 | AUDITORIUM

Chair: Pietro Pietrini, Member of the HFSP Board of Trustees Representing Italy

In tune with the moon: the evolution of moon-controlled timing systems from the surface to the deep sea

Kristin Tessmar-Raible, University of Vienna

The social origins of rhythm: from cognitive neuroscience to marine mammal fieldwork

Andrea Ravignani, Sapienza University of Rome

RNA-interactome capture isolates a bacterial effector that modifies host messenger RNA to promote virulence

Frederic Allain, Swiss Federal Institute of Technology in Zurich (ETH Zürich)

How a single cell shapes a shoot

Teva Vernoux, École Normale Supérieure de Lyon

12:20–13:30 | LUNCH | FORUM AREA

13:30–15:10 | ORAL SESSION 2 | AUDITORIUM

Chair: Anita Lüthi, Member of the HFSP Council of Scientists Representing Switzerland

New kids on the block: how denovo emerged micropeptides rewire cellular networks
Anne-Ruxandra Carvunis, Swiss Federal Institute of Technology in Zurich (ETH Zürich)

Blue iridescence coevolves with colour vision and flight in morpho butterflies
Vincent Debat, French National Museum of Natural History (MNHN)

Using marchantia polymorpha for visualizing life in four dimensions
Zohar Meir, Gregor Mendel Institute of Molecular Plant Biology

Illuminating microbial communication networks: the phycosphere lab
Christophe Coudret, Université de Toulouse

When the weaker team outperforms the stronger one: a reinforcement learning and complex systems analysis
Miguel Ruiz-García, Universidad Complutense de Madrid

15:10–15:40 | POSTER TEASER TALK 1 | AUDITORIUM

Chair: Stephen Michnick, University of Montreal, Canada

Unveiling historical hydrodynamic cues as a sensory landscape for aquatic navigation tasks
Gurvan Jodin, École Normale Supérieure de Rennes

Cyclical sexual–asexual selection drives adaptive fusion via reproduction trade-off
Gaowen Liu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

Osmotic potential drives lumenogenesis during embryonic mouse pancreas and stomach development
Augusto Ortega Granillo, Max Planck Institute of Molecular Cell Biology and Genetics

Calcium-Sensitive Liposomal Nanoparticle Reporters for Sensitive Molecular MRI
Vinay K Sharma, Massachusetts Institute of Technology (MIT)

Deciphering Schistosoma mansoni Egg Migration Through Host Tissues: Analysis of Immune Mechanisms and Tissue Remodeling
Lucy Ochola, Centre for Research and Therapeutics and Institute of Primate Research

Conserved and lineage-specific mechanisms drive chromatophore differentiation in reptiles
Pierre-Yves Helleboid, University of Geneva

How do circadian temperature oscillations benefit the health and longevity of c. Elegans?
Kristin Dahl, The Biozentrum of the University of Basel

Confining chaos: how the flow of energy organizes active systems
Michael Riedl, TU Dresden

Functional ultrasound imaging in 4-month-old infants: a pilot study towards imaging early language development
Kenta Watanabe, The University of Tokyo

Structural ontogeny of protein–protein interactions
Aerin Yang, Swiss Federal Institute of Technology Lausanne (EPFL)

15:40–18:00 | POSTER SESSION 1 | AUDITORIUM HALL & FORUM AREA
(Coffee and refreshments are available)

18:45–22:00 | MEETING DINNER | RESTAURANT AMARANTE (GENEVA BOTANICAL GARDEN)

Thursday, 9 July 2026

8:30–10:10 | ORAL SESSION 3 | AUDITORIUM

Chair: Pushkar Sharma, Member of the HFSP Board of Trustees Representing India

Intracellular voltage control of decision-making during cell migration
Pablo J. Sáez, University Medical Center Hamburg- Eppendorf | UKE

Experimentally evolving cellular miniaturization
Marco Fumasoni, Gulbenkian Institute of Molecular Medicine (GIMM)

Meat, minds, and molecules: overcoming fundamental analytical challenges in isotopic measurements of fossil amino acids
Caj Neubauer, University of Colorado – Boulder

Unravelling the mechanism of schistosome egg migration in a complex host environment
Kennedy Okeyo, Purdue University

Disentangling microbiome effects on plant development and life history
Alejandra Hernandez Teran, University of California

10:10–10:40 | COFFEE BREAK | FORUM AREA

10:40–12:20 | ORAL SESSION 4 | AUDITORIUM

Chair: Marco Fumasoni, Gulbenkian Institute for Molecular Medicine, Portugal

The architecture of photosynthesis
Anja Geitmann, McGill University

Neurogenic mechanisms in the largest invertebrate brain
Jessica Stock, Harvard University

Pigment content, gene expression and organelle function in vertebrate pigment cells
Athanasia Tzika, University of Geneva

A switchable optochemical RNA tool for spatial control and immunomodulation of local translation in microglia
Kathrin Leppek, University of Bonn, University Hospital Bonn

Shiny signalling: the production, detection and neurobiological processing of brilliant colours
Casper Van Der Kooij, University of Groningen

12:20–12:50 | POSTER TEASER TALK 2 | AUDITORIUM

Chair: Almut Kelber, HFSPo, France

Enzyme entrapment and visualization in metal-organic frameworks

Orysia Zaremba, Enamine Scientific Research Institute

Cell fate memory is heritable but transient and reversible

Nitu Kumari, Northwestern University Feinberg School of Medicine

Harmony in dynamics – exploring emergent cooperation through participatory art

Uri Hershberg, University of Haifa

Decoding enhancer-mediated gene regulation during male germline development

Masahiro Nagano, Massachusetts Institute of Technology

The origin of synaptic neurotransmission in animals

Jacob Musser, Yale University

Drivers for transport in the gastrovascular network of the jellyfish aurelia aurita

Annemiek JM Cornelissen, Paris Cité University

Dissecting directional and lateral dynamics in intracellular cargo transport using minflux

Farha Naaz, University of Warwick

Deciphering circuit mechanisms of cognition with larval zebrafish

Ryosuke Tanaka, RIKEN Center for Brain Science

Variation in skull morphology reflects functional specialisation in reptilian head-first burrowers

Anastasiia Maliuk, University College London

Decoding the mechanisms of condensate-membrane interactions in changing cellular environments

Dragomir Milovanovic, Charité – University Medicine Berlin

12:50–14:00 | LUNCH | FORUM AREA

14:00–15:00 | KEYNOTE LECTURE | AUDITORIUM

Aeons of togetherness between sterols and membrane proteins in living cells

Francisco Barrantes, Catholic University of Argentina, Argentina

15:00–16:00 | ORAL SESSION 5 | AUDITORIUM

Chair: Athanasia Tzika, University of Geneva, Switzerland

Real-time single-molecule imaging in zebrafish embryos uncovers non-canonical translation

Maelle Bellec, Max Planck Institute for Heart and Lung Research

Enhancing tropical tree-ring detection using a semi-automated SWIR hyperspectral imaging pipeline

Meley Mekonen Rannestad, Norwegian University of Life Science

Coupled chemical memory and computation at the single-molecule level

Duhan Toparlak, University of Oxford

16:00–16:30 | COFFEE BREAK | FORUM AREA

16:30–17:50 | ORAL SESSION 6 | AUDITORIUM

Chair: Susan Marqusee, University of California Berkeley, USA

Charting the origin, diversity and biogeography of small proteins in the global ocean microbiome

Samuel Miravet-Verde, Swiss Federal Institute of Technology in Zurich (ETH Zürich)

Assembly, mechanics and growth of plant cell walls

Pauline Durand-Smet, Paris Cité University

Unraveling the layers of complexity underlying bacteria-plasmid interactions

Shai Pilosof, Ben Gurion University

Illuminating orphan GPCR signaling by novel biochemical approaches

Hiroyuki Okamoto, University of California, San Francisco

17:50–19:30 | POSTER SESSION 2 | AUDITORIUM HALL & FORUM AREA

(Coffee and refreshments are available)

Friday, 10 July 2026

8:30–10:10 | ORAL SESSION 7 | AUDITORIUM

Chair: Anja Geitmann, McGill University, Canada

Mosquito-borne human pathogenic viruses use fundamentally different membrane interactions in insect versus mammalian cells

Gisa Gerold, Medical University of Innsbruck

An ancient monoaminergic signaling system coordinates contractility in a nerveless sponge

Rong Xuan (Roy) Zang, Yale University

Life in the maze: microclimate variability contributes to the local coexistence of fynbos ants

Tom Rhys Bishop, Cardiff University

A synthetic epigenetic circuit produces noise-driven heritable oscillations

Amith Zafal Abdulla, Brandeis University

System-wide flow dynamics in developing biological networks

Eleni Katifori, University of Pennsylvania

10:10–10:40 | COFFEE BREAK | FORUM AREA

10:40–12:00 | ORAL SESSION 8 | AUDITORIUM

Chair: Aurora Martínez, Norway. Chair of the HFSP Council of Scientists

Molecular checkpoint for quality control in flagellin sialylation

Patrick Viollier, University of Geneva

Bloom-in-a-lab: self-organised active transport mitigates nutrient constraints in algal blooms

Anupam Sengupta, Luxembourg University

Tracing the evolutionary origins of RNA-binding protein networks: giardia as a model for basal eukaryotic innovation

Aaron Jex, Walter and Eliza Hall Institute of Medical Research

Immunity and selfishness in genomic variability hotspots of Arabidopsis thaliana

Gal Ofir, Max Planck Institute for Biology Tübingen

12:00–12:30 | POSTER TEASER TALK 3 | AUDITORIUM

Chair: Marcella Devoto, Member of the HFSP Board of Trustees Representing Italy

Biological clock(s) in deep-sea mussels

Audrey Mat, University of Vienna

Why don't we get more cancer? A tissue-level paradox in oncogenic cell fate

Felipe Rodrigues, The Rockefeller University

Unravelling the role of proboscis mechanosensory neurons in aedes aegypti blood feeding behavior

Irene Arnoldi, Radboud University Medical Center

Translation rewiring during embryonic diapause

Ida Marie Astad, Jentoft Research Institute for Molecular Pathology

Recording the history of cell-cell interactions in vivo

Costanza Borrelli, The Rockefeller University

A quantitative in vitro approach to virus infection

Paul Soudier, University of Minnesota

The mechanical properties of leaves as sandwich structures

Eva Knight, Imperial College London

Resurrecting the origins of tyrosine kinase activity

Pau Creixell, University of Cambridge

Illuminating mesophyll microstructure in the context of leaf macrostructure: leaf gas diffusion dynamics across diverse forms

Nancy Walker, Yale University

Single-cell imaging of bacterial respiration reveals a new nanowire secretion system

Nikhil Malvankar, Yale University

12:30–13:30 | LUNCH | FORUM AREA

13:30–14:50 | ORAL SESSION 9 | AUDITORIUM

Chair: Thijs Vandenbrouke, Ghent University, Belgium

The role of lipid physical properties for the multifunctionality of insect cuticular hydrocarbons

Florian Menzel, Johannes Gutenberg University Mainz

Experimental misshapes, mistakes and misfits: sporomorph malformations and mass extinctions

Barry Lomax, University of Nottingham

Inverse lactation: larval secretions control reproductive division of labour in ants

Adria C. LeBoeuf, University of Cambridge

Dark oxygen production: an overlooked process in earth's hidden ecosystems

S. Emil Ruff, The Marine Biological Laboratory

14:50–16:45 | POSTER SESSION 3 | AUDITORIUM HALL & FORUM AREA

(Coffee and refreshments are available)

16:45–17:45 | ORAL SESSION 10 | AUDITORIUM

Chair: Anupam Sengupta, University of Luxembourg, Luxembourg

A universal translator of transcriptomes to protein interactomes for molecular interpretation of cell and tissue models

Stephen Michnick, University of Montreal

Mitochondrial pearling: biophysical mechanisms and biological function

Prof. Suliana Manley, Swiss Federal Institute of Technology Lausanne (EPFL)

Investigating intermittent buzzing in buzz-pollination via bee-scale micro-robotic shakers and pollen release studies

Noah Jafferis, University of Massachusetts Lowell

17:45–18:00 | FINAL REMARKS | AUDITORIUM

Pavel Kabat, Secretary-General of HFSP

18:00–19:00 | FAREWELL RECEPTION | FORUM AREA

POSTER LIST

POSTER SESSION 1 | FORUM AREA | WEDNESDAY, 8 JULY 2026 | 15:40

PS1.1 *Biological protein springs as allosteric modulators*

Reuven Gordon, University Of Victoria

PS1.2 *Investigating cdla-driven t cell responses toward uv oxidised skin lipids in health and disease*

Laura Ciacchi, University of Oxford

PS1.3 *Advanced microscopy and integrative modelling to resolve the structural dynamics and biophysics of exocytosis*

Oriol Gallego, Pompeu Fabra University

PS1.4 *Restoring homeostatic levels of a histone variant counters aging-associated cellular decline*

Anastasios Liakos, University Medical Center Göttingen

PS1.5 *Confining chaos: how the flow of energy organizes active systems*

Michael Riedl, TU Dresden

PS1.6 *Local extracellular matrix remodeling and neuron-glia signaling promote brain plasticity after injury in drosophila*

Juan Andrés Sánchez, Champalimaud Foundation

PS1.7 *Multiplexed biomaterial tissue perturbations*

John Hickey, Duke University

PS1.8 *A tale of tails: investigating the cross-compatibility and ancestry of the bacterial flagellar filament.*

Matthew AB Baker, University of New South Wales Sydney

PS1.9 *Unveiling historical hydrodynamic cues as a sensory landscape for aquatic navigation tasks*

Gurvan Jodin, École Normale Supérieure de Rennes

PS1.10 *Uncovering the complexities of intrinsic and rna-dependent phase behaviors of fused in sarcoma*

Yuri Hong, Max Planck Institute of Molecular Cell Biology and Genetics

PS1.11 *Development of a smart experimental device for measuring and manipulating the hydrodynamic state of a tank with submerged bodies*

Bastien Lagneaux, ENS Rennes, CNRS

PS1.12 *Statistical analysis of small-integer ratios in bioacoustics and music*

Yannick Jadoul, Sapienza University of Rome

PS1.13 *A distributed pressure-sensing platform for long-duration mapping of fish-generated hydrodynamic signatures*

Porcon Corentin École normale supérieure de Rennes

PS1.14 *Enhanced baseline cytotoxic t cell function predicts response to pd-1 blockade in richter transformation*

Johan Gustafsson, University of Gothenburg

PS1.15 *Are centrioles truly central? Probing the evolution of cell skeleton organising centres using a unique deep-branching protist*

Yana Eglit, University of Geneva

PS1.16 *The blue-winged eyes of morpho butterflies*

Gregor Belusic, University of Ljubljana

PS1.17 *Oxygen isotopes of methanol link dark oxygen production and methane oxidation in groundwater*

Tetyana Gilevska, University of Southern Denmark

PS1.18 *Humpback whale song rhythms match a musical universal*

Teresa Raimondi, Sapienza University of Rome

PS1.19 *Electrostatic matrix assembly in regeneration: a collagen-silk fibroin jellyfish biomimetic platform*

Vladislav Koren, Weizmann Institute of Science

PS1.20 *Cyclical sexual-asexual selection drives adaptive fusion via reproduction trade-off*

Gaowen Liu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences

PS1.21 *Cell fate memory is heritable but transient and reversible*

Nitu Kumari, Northwestern University Feinberg School of Medicine

PS1.22 *Calcium-responsive liposomal nanoparticle reporters for amplified molecular MRI of extracellular calcium*

Vinay K Sharma, Massachusetts Institute of Technology (MIT)

PS1.23 *Deciphering Schistosoma mansoni Egg Migration Through Host Tissues: Analysis of Immune Mechanisms and Tissue Remodeling*

Lucy Ochola, Centre for Research and Therapeutics and Institute of Primate Research

PS1.24 *Conserved and lineage-specific mechanisms drive chromatophore differentiation in reptiles*

Pierre-Yves Helleboid, University of Geneva

PS1.26 *How do circadian temperature oscillations benefit the health and longevity of c. Elegans?*

Kristin Dahl, Biozentrum der Universität Basel

PS1.27 *Functional ultrasound imaging in 4-month-old infants: a pilot study towards imaging early language development*

Kenta Watanabe, The University of Tokyo

PS1.28 *Structural ontogeny of protein-protein interactions*

Aerin Yang, Swiss Federal Institute of Technology Lausanne (EPFL)

POSTER SESSION 2 | FORUM AREA | THURSDAY, 9 JULY 2026 | 17:50

PS2.1 *What jellyfish teach us about tissue mechanics, shape programming and active matter*

Anne Materne, Max Planck Institute of Molecular Cell Biology and Genetics

PS2.2 *Mental 3d space-time travel in fission-fusion animal societies*

Sara Torres Ortiz, University of Southern Denmark

PS2.3 *Visual pathways through the anterior optic tubercle in the papilio butterfly brain*

Michiyo Kinoshita, The Graduate University for Advanced Studies, SOKENDAI

PS2.4 *Micro/nanoscale thermal control of a single living cell enabled by all-optical diamond heater-thermometer*

Vadim Zeeb, NanThermix SA

PS2.5 *From nano to organismal scale: structural regulation of regenerating jellyfish*

Daniel Font, Oceanographic Observatory of Banyuls-sur-Mer

PS2.6 *Transient dorsal pharyngeal cavity in medaka larvae revealed by 3d reconstruction: implications for air-breathing evolution*

Takayuki Onai, University of Fukui

PS2.7 *Chromatophores uncovered from genes to cells*

Pierre Beaudier, University of Geneva

PS2.8 *Towards the reconstitution of geobacter split pilin assembly and nanowire secretion in heterologous hosts*

Olivera Francetic, Institut Pasteur

PS2.9 *Reach out and touch me: structural and functional diversity of bacterial and archaeal cytochrome OMCS- and omcz-type nanowires reveals a widespread mechanism for anaerobic respiration by interspecies electron exchange via direct physical contact*

Nikhil Malvankar, Yale University

PS2.10 *Understanding the evolutionary significance of pioneer transcription factors in insect metamorphosis*

Yu Shirai, Harvard University

PS2.11 *Matlab-based particle tracking algorithm for schistosoma egg migration analysis*

Kennedy Okeyo, Purdue University

PS2.12 *Monsters of the apocalypse: how fossil teratology helps identify hydrothermal brines as plausible triggers for ancient mass-extinction*

Thijs Vandenbroucke, Ghent University

PS2.13 *Beyond blue: spectral purity, polarization, and timing shape interactions of morpho butterflies with synthetic colors*

Marko Ilić, University of Ljubljana

PS2.17 *Mirror image flowers-breaking bilateral symmetry and conservation genetics boundaries*

Nicola Illing, University of Cape Town

- PS2.18** *Modeling and experimental approaches allow us to parse drivers of community responses to environmental change*
Kaitlin A. Schaal, University of Liverpool, Liverpool, UK
- PS2.19** *Harmony in dynamics – developing a digital multiplayer platform to study emergent cooperation in participatory art*
Luciano Perondi, Università luav di Venezia
- PS2.20** *Harmony in Dynamics: Translating a Participatory Artwork into a Socio-Cognitive Experimental Paradigm*
Hasan Ayaz, Drexel University
- PS2.21** *Harmony in dynamics – exploring emergent cooperation through participatory art*
Uri Hersberg, University of Haifa
- PS2.22** *Osmotic potential drives lumenogenesis during embryonic mouse pancreas and stomach development*
Augusto Ortega Granillo, Max Planck Institute of Molecular Cell Biology and Genetics
- PS2.23** *Enzyme entrapment and visualization in metal-organic frameworks*
Orysia Zaremba, Enamine Scientific Research Institute
- PS2.24** *Decoding enhancer-mediated gene regulation during male germline development*
Masahiro Nagano, Massachusetts Institute of Technology
- PS2.25** *The origin of synaptic neurotransmission in animals*
Jacob Musser, Yale University
- PS2.26** *Drivers for transport in the gastrovascular network of the jellyfish aurelia aurita*
Annemiek JM Cornelissen, Paris Cité University
- PS2.27** *Dissecting directional and lateral dynamics in intracellular cargo transport using minflux*
Farha Naaz, University of Warwick, UK
- PS2.28** *Deciphering circuit mechanisms of cognition with larval zebrafish*
Ryosuke Tanaka, RIKEN Center for Brain Science
- PS2.29** *Variation in skull morphology reflects functional specialisation in reptilian head-first burrowers*
Anastasiia Maliuk, University College London
- PS2.30** *Decoding the mechanisms of condensate-membrane interactions in changing cellular environments*
Dragomir Milovanovic, Charité – University Medicine Berlin

POSTER SESSION 3 | FORUM AREA | FRIDAY, 10 JULY 2026 | 14:50

PS3.1 *Design, fabrication, and testing of integrated gel stiffness characterization system for evaluating schistosome egg migration*

Kennedy Okeyo, Purdue University

PS3.2 *Emergent collective behavior in multi-agent reinforcement learning and analytically tractable models*

Samuel Liebana, University College London

PS3.3 *Emergent collective behavior in humans playing online games*

Rachael Skye, Wellesley College

PS3.4 *Decoding endometrial compartmentalization with mouse uterine explants*

Fatima Sanchis Calleja, Harvard University

PS3.5 *Morphological bases of blue iridescence diversity across morpho butterflies*

Mariana Jaramillo, University of Antioquia

PS3.6 *Cross-talk between non-canonical wnt and transforming growth factor beta pathways control the epithelial-mesenchymal transition and cell migration*

Taran Gujral, Fred Hutchinson Cancer Center

PS3.7 *Multi-enzyme mof nanoreactors transplant a drug biosynthesis pathway into cells*

Raik Grünberg, King Abdullah University for Science and Technology

PS3.8 *Kinetic profiling of transcriptional activation domains with transcriptional response barcode linked sequencing (TREBL-SEQ)*

Max Staller, University California Berkeley

PS3.9 *Definition and molecular regulation of aging in organisms with diverse lifespans and life cycles*

Motoshi Hayano, Tokyo University of Science

PS3.10 *Mapping structural and functional connectivity of the distributed sensory system in chiton armor*

Daniel Baum, Zuse Institute Berlin

PS3.11 *Universal biochemistry of RNA in the cold*

Felix Ritort, University of Barcelona

PS3.12 *Replicating RNA with RNA*

Philipp Holliger, MRC Laboratory of Molecular Biology

PS3.13 *Mechanism of spliceosome termination*

Vytaute Boreikaite, Research Institute of Molecular Pathology

PS3.14 *Biological clock(s) in deep-sea mussels*

Audrey Mat, University of Vienna

PS3.15 *Why don't we get more cancer? A tissue-level paradox in oncogenic cell fate*

Felipe Rodrigues, The Rockefeller University

PS3.16 *Unravelling the role of proboscis mechanosensory neurons in aedes aegypti blood feeding behavior*

Irene Arnoldi, Radboud University Medical Center

PS3.17 *Translation rewiring during embryonic diapause*

Ida Marie Astad, Jentoft Research Institute for Molecular Pathology (IMP)

PS3.18 *Recording the history of cell-cell interactions in vivo*

Costanza Borrelli, The Rockefeller University

PS3.19 *A quantitative in vitro approach to virus infection*

Paul Soudier, University of Minnesota

PS3.20 *Trapping targets of dynamic translation to identify novel cellular "band aids"*

Olena Zhulyn, The Hospital for Sick Children (SickKids)

PS3.21 *Resurrecting the origins of tyrosine kinase activity*

Pau Creixell, University of Cambridge

PS3.22 *Illuminating mesophyll microstructure in the context of leaf macrostructure: leaf gas diffusion dynamics across diverse forms*

Nancy Walker, Yale University

PS3.23 *Pili for nanowires: single-cell imaging of bacterial respiration via extracellular electron transfer correlated with genetic, biochemical, and biophysical studies identify a new hybrid type 4 pilus/type 2 secretion system for cytochrome nanowires*

Nikhil Malvankar, Yale University

NOTES

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