

## Monday February 2nd 2026

|                        |       |                                                       |                                                                                                                   |
|------------------------|-------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 09:30                  | 10:30 | Welcome breakfast (light since early lunch)           |                                                                                                                   |
| 10:30                  | 10:50 | UNIL technology platforms flash talks                 |                                                                                                                   |
| <b>Keynote session</b> |       | Chair: Sven Bergman                                   | ----- Combined lecture with <b>BIG Seminar</b> -----                                                              |
| 11:00                  | 12:00 | Emma Hodcroft                                         | Pathoplexus: Building a new kind of pathogen database                                                             |
| 12:00                  | 13:30 | Lunch - Walk through sponsors                         |                                                                                                                   |
| <b>Session 1</b>       |       | "AI in Biology & Medicine" - Chair: Sven Bergman      |                                                                                                                   |
| 13:30                  | 14:00 | Jan Baumbach                                          | Network Medicine GPT - A knowledge-graphs based foundation model for drug repurposing                             |
| 14:05                  | 14:35 | Olga Trofimova                                        | Sex-specific genetic and clinical signatures of an image-derived biomarker of aging                               |
| 14:40                  | 15:10 | Craig Glastonbury                                     | Histological phenotyping and building a spatial atlas of human crypt morphology                                   |
| 15:10                  | 15:40 | Coffee break - Walk through sponsors                  |                                                                                                                   |
| <b>Session 2</b>       |       | Genes, traits and sexual systems - Chair: Ian Sanders |                                                                                                                   |
| 15:40                  | 16:10 | Francisca Martinez Real                               | Elucidating the molecular basis of mammalian flight                                                               |
| 16:15                  | 16:45 | Gabriel Marais                                        | Plant sex chromosomes finally join the genomics revolution                                                        |
| 16:50                  | 17:20 | Mike Ritchie                                          | Identifying genes evolving under sexual selection in <i>Drosophila pseudoobscura</i> ; trying to conclude a saga? |
| 17:20                  |       | Apero - Walk through sponsors                         |                                                                                                                   |

## Tuesday February 3rd 2026

|                  |       |                                                                                   |                                                                                                                     |
|------------------|-------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 09:30            | 10:00 | Welcome breakfast                                                                 |                                                                                                                     |
| 10:00            | 10:10 | UNIL technology platforms short overview                                          |                                                                                                                     |
| <b>Session 3</b> |       | "Microbial ecology across scales" - Chair: Alan Pacheco                           |                                                                                                                     |
| 10:15            | 10:45 | Sanne Klompe                                                                      | Genetic conflicts as a driving force of molecular innovation                                                        |
| 10:50            | 11:20 | Martin Polz                                                                       | Genome wide sweeps create globally adaptive populations in the human microbiome                                     |
| 11:25            | 11:55 | Christian von Mering                                                              | The Microbe Atlas: A global survey of microbial diversity                                                           |
| 11:55            | 13:25 | Lunch - Walk through sponsors                                                     |                                                                                                                     |
| <b>Session 4</b> |       | "Genome organization" - Chair: Maria Cristina Gambetta                            |                                                                                                                     |
| 13:25            | 13:55 | Jumana AlHaj Abed                                                                 | How do Chromosomes Communicate?                                                                                     |
| 14:00            | 14:30 | Peter Meister                                                                     | Folding the genome: how micromachines compact DNA inside the nucleus                                                |
| 14:35            | 15:05 | Albert Tsai                                                                       | Transcription, nuclear organization, and developmental robustness: from sub-nuclear microenvironments to phenotypes |
| 15:05            | 15:35 | Coffee break - Walk through sponsors                                              |                                                                                                                     |
| <b>Session 5</b> |       | "Gene Regulatory Mechanisms in Evolution and Development" - Chair: Sebastian Soyk |                                                                                                                     |
| 15:40            | 16:10 | Idan Efroni                                                                       | From Deep Evolution to Precision Engineering of Plant cis-Regulatory Elements                                       |
| 16:15            | 16:45 | Hugues Roest Crollius                                                             | ATLASea, sequencing marine genomes in all their diversity                                                           |
| 16:50            | 17:20 | Tobias Jores                                                                      | Plant enhancers: how they work and where to find them                                                               |
| 17:20            |       | Closing Apero                                                                     |                                                                                                                     |