

Programme

Thursday, November 3rd

08:30 – 09:30 Registration and Coffee

09:30 – 09:45 Opening Remarks

Session I: Molecular Toolbox

Chair: Marina Martinic Kavur

09:45 – 10:45 **Jan Ellenberg (Keynote Lecture)**

Systems biology of cell division using light microscopy

10:45 – 11:20 **Steve Lever**

Use of spider webs to determine the survival rate of filoviruses contained within aerosols

11:20 – 11:55 **Luke Alphey**

Genetic control of mosquitoes

11:55 – 13:15 *Lunch*

Session II: Manipulating the Code

Chair: Triin Laos

13:15 – 13:50 **Robert Grass**

Replacing T-Rex for data: Using fossilized DNA for the long-term storage of information

13:50 – 14:25 **Jonathan Gootenberg**

Beyond Cas9: Discovering single effector CRISPR tools

14:25 – 14:55 *Coffee Break*

14:55 – 15:55 **Jason Chin (Keynote Lecture)**

Reprogramming the genetic code

Panel Discussion

Chair: Beata Mierzwa

15:55 – 16:55 Anvajo (Germany)

Cellestia Biotech (Switzerland)

Identity Inside / TurboBeads / Haelixa (Switzerland)

INiTS (Austria)

ScarletRed (Austria)

16:55 – 18:00 Chat with Panelists

Programme

Friday, November 4th

Session III: Bioengineering Medicine

Chair: Madalena Pinto

- 09:00 – 10:00 **Eric Vivier (Keynote Lecture)**
Innate Lymphoid Cells: From discovery to clinical manipulations
- 10:00 – 10:35 **Jean-Philippe Saint-Pierre**
Designing bio-inspired materials for regenerative medicine
- 10:35 – 11:10 **Simon Ausländer**
Engineering of gene circuits for mammalian cell-based applications
- 11:10 – 11:30 *Coffee Break*
- 11:30 – 12:30 **Serafeim Perdikis (Added Dimension)** Chair: Tiffany Su
Brain-Computer Interaction: Principles and clinical applications
- 12:30 – 13:40 *Lunch*

Session IV: Shaping Ecosystems

Chair: Jillian Augustine

- 13:40 – 14:40 **Hervé Vanderschuren (Keynote Lecture)**
Stories from the lab, stories from the field: Advancing crop biotechnology
- 14:40 – 15:00 *Coffee Break*
- 15:00 – 15:35 **Howard Griffiths**
Can we, and should we, turbocharge photosynthesis to increase crop productivity?
- 15:35 – 16:10 **Louise Horsfall**
Microbes and metal nanoparticles
- 16:10 – 16:30 *Coffee Break*
- 16:30 – 17:30 **Filipa Lentzos (Added Dimension)** Chair: Jasmin Taubenschmid
The misuse of biology: Are you on your guard?
- 17:30 – 18:30 Mattias Lauwers Award, Graduation / VBC Awards Ceremony
- 18:30 – 18:45 Closing Remarks
- 18:45 *Dinner and Party*