

## Monday February 10, 2020

## Tuesday February 11, 2020

9:30-10:00 **Welcome and coffee in the Génopode hall**

### 10:00-11:45 TRANSLATIONAL REGULATION

Chair [Prof. Sven Bergmann](#) - UNIL (Department of Computational Biology)

10:00 Keynote presentation

[Prof. Tamir Tuller](#) - Tel Aviv University, Israel

Computational deciphering and modelling of novel gene expression rules encoded in the mRNA

10:45 [Dr. Anneke Brümmer \(Prof. Sven Bergmann\)](#) - UNIL (Department of Computational Biology)

LincRNA sequences are biased to counteract their translation

11:05 [Dr. Cedric Gobet \(Prof. Felix Naef\)](#) - EPFL

Modeling ribosome dwell times and relationships with aminoacyl-tRNAs in mouse liver

11:25 [Prof. David Gatfield](#) - UNIL (Center for Integrative Genomics)

Transcriptome-wide sites of collided ribosomes reveal sequence determinants of translational pausing

11:45-13:00 **Lunch in the Génopode hall**

### 13:00-14:45 RNA PROCESSING

Chair [Dr. Julien Marquis](#) - UNIL (Genomic Technologies Facility)

13:00 Keynote presentation

[Prof. Stefan Ameres](#) - Institute of Molecular Biotechnology, Austria

SLAMseq – Dissecting gene regulatory mechanisms by time-resolved RNA sequencing

13:45 [Dr. Flora Brozzi \(Prof. Romano Regazzi\)](#) - UNIL (Department of Fundamental Neurosciences)

RNA-tagging to unveil beta-cell/immune cell crosstalk in diabetes pathogenesis

14:05 [Dr. Rodrigo Siqueira Reis \(Prof. Yves Poirier\)](#) - UNIL (Department of Plant Molecular Biology)

Complex mRNA-antisense lincRNA interaction revealed by SHAPE-MaP

14:25 [Lina Worpenberg \(Prof. Jean Yves Roignant\)](#) - UNIL (Center for Integrative Genomics)

Shaping the nervous system by m6A mRNA modification

14:45-15:15 **Coffee break in the Génopode hall**

### 15:15-16:55 GENE EDITING

Chair [Prof. Julia Santiago Cuellar](#) - UNIL (Department of Plant Molecular Biology)

15:15 Keynote presentation

[Prof. Martin Jinek](#) - University of Zurich, Switzerland

Molecular mechanisms of genome editors

16:00 [Dr. Robertas Ursache \(Prof. Niko Geldner\)](#) - UNIL (Department of Plant Molecular Biology)

CRISPR and the new age of genetic analysis in Arabidopsis

16:25 [Dr. Lotte Spel \(Prof. Fabio Martinon\)](#) - UNIL (Department of Biochemistry)

A functional genetics approach to dissect inflammasome activation

16:50 **Apero in the Génopode hall**

9:30-10:00 **Welcome and coffee in the Génopode hall**

### 10:00-11:45 MICROBIOMES

Chair [Prof. Philipp Engel](#) - UNIL (Department of Fundamental microbiology)

10:00 Keynote presentation

[Prof. Colin Hill](#) - University College Cork, Ireland

A voyage through the gut virome

10:45 [Dr. Kirsten Ellegaard \(Prof. Philipp Engel\)](#) - UNIL (Department of Fundamental Microbiology)

Getting quantitative on the Microbiome: vast differences in strain-level diversity among host-associated bacterial communities

11:05 [Paddy Gibson \(Prof. Jan-Willem Veening\)](#) - UNIL (Department of Fundamental Microbiology)  
Deciphering the origins of amoxicillin resistance in *Streptococcus pneumoniae* through experimental evolution and NGS

11:25 [Dr. Guillem Salazar Guiral](#) - ETH (Microbiology)

Disentangling the effects of gene expression changes and community turnover in the global ocean

11:45-13:30 **Lunch in the Génopode hall**

### 13:30-15:15 EVOLUTION

Chair [Prof. Tanja Schwander](#) - UNIL (Department of Ecology and Evolution)

13:30 [Prof. Anne Roulin](#) - UZH (Department of Plant and Microbial Biology)

Transposable element evolution in small genomes What can we learn from population genomics in *B. distachyon*?

13:50 [Jelisaveta Djordjevic \(Prof. Tanja Schwander\)](#) - UNIL (Department of Ecology and Evolution)

Sexual conflict and the ontogeny of sex-biased gene expression in stick insects

14:10 [Tomas Kay \(Prof. Laurent Keller\)](#) - UNIL (Department of Ecology and Evolution)

Position in the social network is a central driver of behavior and gene expression in ants

14:30 Keynote presentation

[Prof. Detlev Arendt](#) - EMBL Heidelberg

Evolution of neurons and of the nervous system

Link to registration



Sponsorship

