Monday February 10, 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 Gattfield - 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 lncRNA 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. Detlev Arendt - EMBL Heidelberg
Evolution of neurons and of the nervous system
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

Tuesday February 11, 2020

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 Prof. 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
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