Wednesday 03 October 2018

15:00 - 17:45 **Arrival and Registration**
ATC Registration Desk

17:45 - 19:00 **Welcome Dinner**
EMBL Canteen

19:00 - 20:45 **Session 1: Keynote Session**
ATC Auditorium

19:00 - 19:15 **Welcome Remarks**
ATC Auditorium

19:15 - 20:00 **Keynote Talk 1: Novel mechanistic insights into the inner workings of the human spliceosome by combined biochemical and Cryo-EM studies** 1

Reinhard Lührmann
Max Planck Institute for Biophysical Chemistry, Germany

20:00 - 20:45 **Keynote Talk 2: Regulation of RNA granule dynamics by intrinsically-disordered proteins** 2

Geraldine Seydoux
Johns Hopkins University School of Medicine, United States of America

20:45 - 23:00 **Drinks and Poster "Sneak Preview"**
ATC Auditorium Foyer and ATC Helices A & B

Thursday 04 October 2018

09:00 - 12:35 **Session 2: Splicing and RNPs**
Chair: Kathi Zarnack

ATC Auditorium

09:00 - 09:25 **Complex Interactions between Transcription, Splicing and Chromatin** 3

Jean Beggs
University of Edinburgh, United Kingdom

09:25 - 09:50 **Splicing-dependent regulation of transcription start sites** 4

Christopher B. Burge
Massachusetts Institute of Technology, United States of America

09:50 - 10:15 **CryoEM snapshots of the spliceosome provide insights into the molecular mechanism of pre-mRNA splicing** 5

Kiyoshi Nagai
MRC Laboratory of Molecular Biology, United Kingdom

10:15 - 10:45 **Coffee Break**
ATC Auditorium

10:45 - 11:10 **Quantitative activity profile and context dependence of all human 5' splice sites** 6

Andrian R. Krainer
Cold Spring Harbor Laboratory, United States of America

11:10 - 11:25 **Global two-step pre-mRNA splicing kinetics in human cells** 7

Leonhard Wachutka
Technical University of Munich, Germany

11:25 - 11:40 **Self-regulatory network of the core spliceosome** 8

Malgorzata Ewa Rogalska
Centre for Genomic Regulation, Universitat Pompeu Fabra, Spain

11:40 - 11:55	**Systematic identification and quantitative measurement of RNA-Protein Interactions by incPRINT** Alena Shkumatava *Institut Curie, France*	9
11:55 - 12:20	**Hidden treasures of the RNA world: RBPs from moonlighting to riboregulation** Matthias Hentze *EMBL Heidelberg, Germany*	10
12:20 - 12:35	**Flash Talks: talks selected from abstracts (1 slide/2 min each)** ATC Auditorium	
12:35 - 14:00	**Lunch** ATC Foyer	
14:00 - 16:00	**Poster Session I (odd numbers)** ATC Helices A & B	
16:00 - 19:00	**Session 3: RNA modifications and features determining transcript fate** **Chair: John Gross** ATC Auditorium	
16:00 - 16:25	**RNA methylation in gene expression regulation** Chuan He *The University of Chicago, United States of America*	11
16:25 - 16:50	**The regulatory potential of cytosine-5 RNA methylation in translation** Michaela Frye *University of Cambridge, United Kingdom*	12
16:50 - 17:15	**Pseudouridine synthases modify human pre-mRNA co-transcriptionally and affect splicing** Wendy Gilbert *Yale University, United States of America*	13

17:15 - 17:30 **Methylation of structured RNA by the m6A writer METTL16 is essential for mouse embryonic development** 14
Mateusz Mendel
University of Geneva, Switzerland

17:30 - 18:00 **Coffee Break**
ATC Auditorium Foyer

18:00 - 18:15 **Unraveling the link between translation termination and nonsense-mediated mRNA decay** 15
Oliver Mühlemann
University of Bern, Switzerland

18:15 - 18:30 **Codon and amino acid use is a major determinant of mRNA stability in humans** 16
Olivia Rissland
University of Colorado, United States of America

18:30 - 18:45 **Post-transcriptional regulation in T cell responses to infection and tumors is time- and context-dependent** 17
Monika Wolkers
Sanquin Research, Landsteiner Laboratory, The Netherlands

18:45 - 19:00 **Identification of a cyclin-dependent kinase coupling global protein synthesis rates with cell proliferation and growth** 18
Katharina Haneke
CBTM, DKFZ-ZMBH Alliance, Germany

19:00 - 21:00 **Pre-Dinner Drinks and Dinner**
ATC Auditorium Foyer and EMBL Canteen

21:00 - 23:00 **After Dinner Drinks**
ATC Rooftop Lounge

Friday 05 October 2018

09:00 - 13:00	**Session 4: RNA localization and translation** **Chair: Nicola Gray** ATC Auditorium	
09:00 - 09:45	**Keynote Talk 3: Watching single mRNAs form memories** Robert H. Singer *Albert Einstein College of Medicine, United States of America*	19
09:45 - 10:10	EMBO Young Investigator Lecture: **Imaging the life and death of mRNAs in single cells** Jeffrey Chao *Friedrich Miescher Institute for Biomedical Research, Switzerland*	20
10:10 - 10:35	**Uncovering rules and dynamics of nonsense-mediated mRNA decay using single molecule imaging** Marvin Tanenbaum *Hubrecht Institute, The Netherlands*	21
10:35 - 10:50	**Revealing features of mRNP organization using super-resolution microscopy** Srivathsan Adivarahan *Université de Montréal, Canada*	22
10:50 - 11:20	**Coffee Break** ATC Auditorium Foyer	
11:20 - 11:45	**A subcellular compartment defined by TIS granules and the ER enables 3'UTR-mediated protein-protein interactions** Christine Mayr *Memorial Sloan Kettering Cancer Center, United States of America*	23
11:45 - 12:00	**Identification and functional dissection of differentially localized mRNA isoforms in mESC-derived neurons** Marina Chekulaeva *BIMSB MDC, Germany*	24

12:00 - 12:15	**RNA-directed activation of cytoplasmic dynein-1 in reconstituted transport RNPs** Mark A. McClintock *MRC Laboratory of Molecular Biology, United Kingdom*	25
12:15 - 12:40	***oskar*** **mRNA transport in the** ***Drosophila*** **germline** Anne Ephrussi *EMBL Heidelberg, Germany*	26
12:40 - 12:55	**Flash talks: talks selected from abstracts (1 slide / 2 min each)** ATC Auditorium	
13:00 - 14:00	**Lunch** ATC Auditorium Foyer	
14:00 - 16:00	**Poster Session II (even numbers)** ATC Helices A & B	
16:00 - 19:00	**Session 5: Noncoding RNAs and decay** **Chair: Torben Heick Jensen** ATC Auditorium	
16:00 - 16:25	**Circular RNAs in innate immunity** Ling-Ling Chen *Shanghai Institute of Biochemistry and Cell Biology, CAS, China*	27
16:25 - 16:50	**lncRNAs and circRNAs in cell differentiation and disease** Irene Bozzoni *Sapienza University of Rome, Italy*	28
16:50 - 17:15	**Molecular and physiological functions of circRNAs** Sebastian Kadener *Brandeis University, United States of America*	29
17:15 - 17:45	**Coffee Break** ATC Auditorium Foyer	

17:45 - 18:10	**The structural basis for mRNA synthesis by influenza RNA-dependent RNA polymerase** Stephen Cusack *EMBL Grenoble, France*	30
18:10 - 18:25	**Molecular mimicry in the complex life of the non-coding RNA** Odil Porrua *CNRS, France*	31
18:25 - 18:40	**Nuclear RNA decay is functionally linked to Polycomb-mediated transcriptional control in embryonic stem cells** William Garland *Aarhus University, Denmark*	32
18:40 - 18:55	**Structures of ykkC riboswitches bound to ppGpp and PRPP reveal a novel principle of ligand recognition** Alla Peselis *New York University School of Medicine, United States of America*	33
19:00 - 20:45	**Pre-Dinner Drinks and Dinner** ATC Auditorium Foyer and EMBL Canteen	
20:45 - 23:00	**Poster Viewing and After Dinner Drinks** ATC Helices A & B and ATC Rooftop Lounge	

Saturday 06 October 2018

09:00 - 13:10	**Session 6: RNA processing machinery** **Chair: Eva Kowalinski** ATC Auditorium	
09:00 - 09:25	EMBO Young Investigator Lecture: **mRNA Deadenylation Is Coupled to Translation Rates by the Differential Activities of Ccr4-Not Nucleases** Lori Passmore *MRC Laboratory of Molecular Biology, United Kingdom*	34
09:25 - 09:50	EMBO Young Investigator Lecture: **Structural basis of AAUAAA polyadenylation signal recognition by the human CPSF complex** Martin Jinek *University of Zurich, Switzerland*	35
09:50 - 10:05	**Cryo-EM structure of a poly(A)-Pab1 ribonucleoprotein bound to the Pan2-Pan3 deadenylase** Ingmar Schäfer *Max Planck Institute for Biochemistry, Germany*	36
10:05 - 10:20	**MKRN1 is a Minder of Poly(A) in Ribosome-associated Quality Control** Andrea Hildebrandt *Institute of Molecular Biology, Germany*	37
10:20 - 10:35	**Structural basis of MLE-UNR-roX2 complex assembly during early steps of Drosophila dosage compensation** Janosch Hennig *EMBL Heidelberg, Germany*	38
10:35 - 11:05	**Coffee Break** ATC Auditorium Foyer	
11:05 - 11:30	**tRNAs and neuronal function** Susan Ackerman *University of California, San Diego/ HHMI, United States of America*	39

11:30 - 11:55	**Assembly of yeast ribosome** Keqiong Ye *Institute of Biophysics, Chinese Academy of Sciences, China*	40
11:55 - 12:10	**Unveiling (Class III) Gene Transcription** Alessandro Vannini *The Institute of Cancer Research, United Kingdom*	41
12:10 - 12:25	**The diverse roles of RNA helicases in driving structural transitions and compositional changes in RNA-protein complexes** Markus Bohnsack *University Medical Center Göttingen, Germany*	42
12:25 - 12:40	**Structure of a nucleolar precursor of the ribosome - the small subunit processome** Jonas Barandun *The Rockefeller University, United States of America*	43
12:40 - 12:55	**Structural insight of precursor tRNA processing by RNase P** Pengfei Lan *Shanghai Jiao Tong University School of Medicine, China*	44
12:55 - 13:10	**Flash Talks: talks selected from abstracts (1 slide / 2 min each)** ATC Auditorium	
13:10 - 14:00	**Lunch** ATC Auditorium Foyer	
14:00 - 16:30	**Poster Session III (all numbers)** ATC Helices A & B	
16:30 - 19:15	**Session 7: Small RNAs and RNA tails** **Chair: Ramesh Pillai** ATC Auditorium	
16:30 - 16:55	**Understanding the roles and regulation of Dicer in antiviral defense** Brenda Bass *University of Utah, United States of America*	45

16:55 - 17:10 **A zygotic small RNA feedback loop triggered by maternal small RNAs in Paramecium has implications for trans-generational epigenetic inheritance** 46

Sarah Allen
IZB Universität Bern, Switzerland

17:10 - 17:35 **Regulators of mRNA tails** 47
V. Narry Kim
Seoul National University, Republic of Korea

17:35 - 18:05 **Coffee Break**
ATC Auditorium Foyer

18:05 - 18:20 **RNA polymerase I regulation by RNA interference in cellular quiescence relies on a novel class of long non-coding RNAs** 48

Benjamin Roche
Cold Spring Harbor Laboratory, United States of America

18:20 - 18:35 **CRISPR knockout studies show that uridylation by TUTase 7 and the 3' to 5' exonuclease 3'hExo are required both for maintaining normal histone mRNA structure and for histone mRNA degradation** 49

Christopher Holmquist
University of North Carolina at Chapel Hill, United States of America

18:35 - 18:50 **High-throughput biochemical analyses reveal miRNA-specific binding preferences that markedly improve miRNA target predictions.** 50

Sean McGeary
HHMI, MIT, and Whitehead Institute, United States of America

18:50 - 19:15 **Principles of RNA regulation by single sequencing in space and time** 51

Nikolaus Rajewsky
Max Delbrück Center for Molecular Medicine, Germany

19:15 - 19:45 **Closing remarks and poster prize**
ATC Auditorium

19:45 - 21:45 **Conference Dinner**
EMBL Canteen

21:45 - 00:00 **Conference Party**
ATC Auditorium Foyer