



The Non-Coding Genome

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Location & dates

EMBL Heidelberg, Germany 16 - 19 Oct 2019

Deadlines

Registration closed Abstract submission closed

EMBO | EMBL
Symposia



Programme

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Day 1 - Wednesday 16 October 2019

Time	Speaker
12:00 - 14:00	Arrival and Registration
14:00 - 14:15	Welcome remarks
14:15 - 17:15	Session 1 - Non-coding RNAs in prokaryotes Chair: Jörg Vogel
14:15 - 14:45	Astonishing redundancy in small RNA-mediated regulation Gisela Storz - <i>National Institutes of Health, USA</i>

Time	Speaker
14:45 - 15:15	Hierarchy in Hfq chaperon occupancy of small RNA targets plays a major role in their regulation Hanah Margalit - <i>The Hebrew University of Jerusalem, Israel</i>
15:15 - 15:30	Novel sRNA-target interaction networks involved in adaptation to nutrient availability Ira Iosub - <i>Centre for Synthetic and Systems Biology, University of Edinburgh, UK</i>
15:30 - 16:00	Coffee break and Meet the Speakers
16:00 - 16:30	Small RNA targetomes and the RNA chaperone Hfq Eric Massé - <i>Université de Sherbrooke, Canada</i>
16:30 - 16:45	RNA interactome of multi-drug resistant <i>Staphylococcus aureus</i> (MRSA) reveals RNAs that confer tolerance to last-line antibiotic treatment Jai Tree - <i>University of New South Wales, Australia</i>
16:45 - 17:15	A new gradient-based approach to discovering RNA-binding proteins in bacteria Jörg Vogel - <i>University of Würzburg, Germany</i>

Time	Speaker
17:15 - 17:45	<p>Flash Talks:</p> <p>#81 Eric de Bony - <i>Center for Medical Genetics, University of Ghent, Belgium</i></p> <p>#117 Rucha Hebalkar - <i>Hannover Medical School, Germany</i></p> <p>#129 Shweta Jadhav - <i>Cancer Science Institute of Singapore, National University of Singapore, Singapore</i></p> <p>#141 Claudia Keller Valsecchi - <i>MPI for Immunobiology and Epigenetics, Germany</i></p> <p>#153 Benson Lim - <i>Genome Institute of Singapore, Singapore</i></p> <p>#157 Lucia Lorenzi - <i>Ghent University, Belgium</i></p> <p>#161 Barbara Mariotti - <i>University of Verona, Italy</i></p> <p>#169 Sophie Mockly - <i>CNRS - University of Montpellier, France</i></p> <p>#173 Auke Otten - <i>Department of Dermatology, University of California, San Diego, USA</i></p> <p>#201 Muhammad Shuaib - <i>King Abdullah University of Science and Technology, Saudi Arabia</i></p> <p>#219 Pablo Tristan-Ramos - <i>GENYO, Centre for Genomics and Oncological Research, Granada; University of Granada, Spain</i></p>
17:45 - 19:45	Poster Session 1 (odd numbers)
19:45 - 21:30	Dinner, EMBL Canteen
21:30 - 23:00	Welcome Reception, ATC Foyer

Day 2 - Thursday 17 October 2019

Time	Speaker
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Time	Speaker
09:00 - 12:30	Session 2 - miRNAs function and mechanisms Chair: V. Narry Kim
09:00 - 09:30	Regulation mechanisms of microRNA biogenesis V. Narry Kim - <i>Institute for Basic Science, South Korea</i>
09:30 - 10:00	MicroRNA Degradation by a Conserved Target RNA Regulates Animal Behavior Alena Shkumatava - <i>Institut Curie, France</i>
10:00 - 10:15	Let-7a-regulated translational readthrough of mammalian AGO1 generates a microRNA pathway inhibitor Sandeep Eswarappa - <i>Indian Institute of Science, India</i>
10:15 - 10:45	Coffee break and Meet the Speakers
10:45 - 11:15	RNA binding proteins in microRNA and other non-coding RNA biogenesis pathways Gunter Meister - <i>Universität Regensburg, Germany</i>
11:15 - 11:45	MicroRNA Target Recognition David Bartel - <i>Massachusetts Institute of Technology, USA</i>
11:45 - 12:00	Stem Cell miRNAs control L1 expression and retrotransposition Constance Ciaudo - <i>ETH Zürich, Switzerland</i>
12:00 - 12:15	SAFB proteins alter the specificity of the Microprocessor and enable the processing of suboptimal hairpin substrates in clustered primary miRNA transcripts Sebastian Herzog - <i>Medical University Innsbruck, Austria</i>
12:15 - 12:30	miRNA degradation in human physiology and pathology Francesco Nicassio - <i>Istituto Italiano di Tecnologia, Italy</i>

Time	Speaker
12:30 - 14:00	Lunch and Meet the Speakers
13:00 - 14:00	Meet the Editors/ Panel discussion - ATC Auditorium Chair: Irene Bozonni Kerstin Brachhold - <i>Wiley (Germany)</i> Sannie Culbertson - <i>Cell Press, Elsevier (United States of America)</i> Andrea Leibfried - <i>Life Science Alliance - Journal (Germany)</i> Esther Schnapp - <i>EMBO Press, Wiley (Germany)</i>
14:00 - 16:00	Session 3 - piRNAs, other types eukaryotic small RNAs (including tRF), transcriptional silencing Chair: Constance Ciaudo
14:00 - 14:30	New biology and therapeutics from RNA structure and modification Eric Miska - <i>University of Cambridge, UK</i>
14:30 - 15:00	Selective translation control by pseudouridine-modified tRNA fragments in stem and cancer cells Cristian Bellodi - <i>Lund University, Sweden</i>
15.00 - 15.30	RNA organization within phase transitioned germ granules Ruth Lehmann - <i>New York University School of Medicine, USA</i>
15:30 - 15:45	A heterochromatin-specific RNA export pathway facilitates piRNA production Peter Refsing Andersen - <i>MBG, Aarhus University, Denmark</i>
15:45 - 16:00	Dicer-dependent transfer RNA-derived small RNAs promote intronic gene silencing Sheng Kai Pong - <i>University of Oxford, UK</i>
16:00 - 16:15	Free afternoon; Buses to Walking Tour Old Town Heidelberg

Day 3 - Friday 18 October 2019

Time	Speaker
09:00 - 12:00	Session 4 - Structure-function, evolution, modifications, ncRNA RBPs Chair: Markus Hafner
09:00 - 09:30	Functional structures within lincRNAp21, an RNA important for mammalian stress response <i>Anna Marie Pyle - Yale University, USA</i>
09:30 - 10:00	RNP Granules in Health and Disease <i>Roy Parker - University of Colorado Boulder, USA</i>
10:00 - 10:15	Binding specificities of human RNA binding proteins towards structured and linear RNA sequences <i>Jilin Zhang - Karolinska Institutet, Sweden</i>
10:15 - 10:45	Coffee break and Meet the Speakers
10:45 - 11:15	Molecular mechanisms underlying RNP granule formation, function and disease <i>Simon Alberti - Max Planck Institute of Molecular Cell Biology and Genetics, Germany</i>
11:15 - 11:45	Genetic compensation and transcriptional adaptation <i>Didier Stainier - Max Planck Institute for Heart and Lung Research, Germany</i>
11:45 - 12:00	Cross evolutionary profiling of RNA acetylation from nucleobase to near atomic resolution <i>Aldema Sas-Chen - Weizmann Institute of Science, Israel</i>
12:00 - 13:30	Lunch and Meet the Speakers
13:30 - 17:00	Session 5 - circRNAs Chair: Irene Bozzoni

Time	Speaker
13:30 - 14:00	Biogenesis of circRNAs in neuromuscular differentiation and disease Irene Bozzoni - <i>Sapienza University of Rome, Italy</i>
14:00 - 14:30	SINEUPs: a new antisense, long non-coding RNA-based platform to increase endogenous protein levels for therapy Stefano Gustincich - <i>Istituto Italiano di Tecnologia, Italy</i>
14:30 - 14:45	Loss of RBM20-dependent TTN-derived circRNAs contribute to the RBM20-phenotype Lucia Cocera Ortega - <i>Amsterdam UMC, The Netherlands</i>
14:45 - 15:00	The RNA-binding proteins MATR3 and SUGP2 act as novel regulators of AUG circRNA production Eoghan T. O'Leary - <i>Aarhus University, Denmark</i>
15:00 - 15:30	Coffee break and Meet the Speakers
15:30 - 16:00	Elucidating the function of circRNAs in development and disease Jørgen Kjems - <i>Aarhus University, Denmark</i>
16:00 - 16:30	Lnc-ing RNA Processing and Function Ling-Ling Chen - <i>Shanghai Institute of Biochemistry and Cell Biology, China</i>
16:30 - 16:45	Alterations in linear and back-splicing as new players in Huntington's Disease pathogenesis Marta Biagioli - <i>University of Trento, Italy</i>
16:45 - 17:00	RNA polymerase II promoter escape regulates circular RNA formation Ana Miguel Fernandes - <i>Max Delbrück Center for Molecular Medicine, Germany</i>

Time	Speaker
17:00 - 17:30	<p>Flash Talks:</p> <p>#56 Tamer Ali - <i>Institute of Cardiovascular Regeneration, Germany</i></p> <p>#58 Marcella Amorim - <i>University of Tübingen, Germany</i></p> <p>#100 Marc Friedländer - <i>SciLifeLab, Department of Molecular Biosciences, The Wenner-Gren Institute, Stockholm University, Sweden</i></p> <p>#116 Daniel A. Lim - <i>University of California, San Francisco, USA</i></p> <p>#142 Hyeong Jin Kim - <i>University of Alberta, Canada</i></p> <p>#174 Sanna Vuoristo - <i>University of Helsinki, Finland</i></p> <p>#216 Roopa Thapar - <i>University of Texas M.D. Anderson Cancer Center, USA</i></p> <p>#222 Rachael Turner - <i>Monash University, Australia</i></p> <p>#75 Grazia Daniela Raffa - <i>Sapienza University of Rome, Italy</i></p>
17:30 - 19:30	Poster Session 2 (even numbers + #75)
19:30 - 21:30	Conference Dinner, EMBL Canteen
21:30 - 00:00	Conference party with live music, ATC Foyer

Day 4 - Saturday 19 October 2019

Time	Speaker
09:00 - 12:15	<p>Session 6 - ncRNA therapeutics and Long noncoding RNA 1</p> <p>Chair: Daniel A. Lim</p>
09:00 - 09:30	<p>The potential for personalized microRNA therapeutics in cancer</p> <p>Frank Slack - <i>Harvard Medical School, USA</i></p>

Time	Speaker
09:30 - 10:00	SINEUPs: a new antisense, long non-coding RNA-based platform to increase endogenous protein levels for therapy Stefano Gustincich - <i>Istituto Italiano di Tecnologia, Italy</i>
10:00 - 10:15	Systematic evaluation of microRNA-132 as a therapeutic target in Alzheimer's disease Hannah Walgrave - <i>VIB-KULeuven, Belgium</i>
10:15 - 10:30	CRISPRi-based radiation modifier screen identifies long non-coding RNA therapeutic targets in glioma Daniel A. Lim - <i>University of California, San Francisco, USA</i>
10:30 - 11:00	Coffee break and Meet the Speakers
11:00 - 11:15	R-loop mediated trans-action of the APOLO long noncoding RNA Federico Ariel - <i>IAL CONICET Santa Fe, Argentina</i>
11:15 - 11:30	Control of cell division by long noncoding RNAs Lovorka Stojic - <i>CRUK Cambridge Institute, UK</i>
11:30 - 11:45	Identifying functional pseudogenes in the human transcriptome by long-read cDNA sequencing Seth Cheetham - <i>University of Queensland, Australia</i>
11:45 - 12:00	Pervasive functional micropeptides in humans encoded by non-canonical open reading frames Jin Chen - <i>University of California, San Francisco, USA</i>
12:00 - 12:15	Characterization of a Y chromosome family of lncRNAs and their importance in the response of male non-small cell lung cancer cells to ionizing radiation Ivan Martinez - <i>West Virginia University, USA</i>
12:15 - 13:30	Lunch and Meet the Speakers (EMBL Canteen)

Time	Speaker
13:30 - 17:00	Session 7 - Long noncoding RNA 2 Chair: John Rinn
13:30 - 14:00	Chromatin related functions of long noncoding RNAs in the regulation of cancer pathways Maite Huarte - <i>University of Navarra, Spain</i>
14:00 - 14:30	Transposable elements: a source of regulatory innovation for the evolution of X chromosome inactivation strategies in mammals? Claire Rougeulle - <i>Université de Paris, France</i>
14:30 - 14:45	RNA matchmaking remodels LncRNA structure and promotes PRC2 activity Aaron Johnson - <i>University of Colorado School of Medicine, USA</i>
14:45 - 15:00	The NORAD lncRNA ‘riboregulates’ the assembly of two large RNP complexes that function in the nucleus Mathias Munschauer - <i>Helmholtz Institute for RNA-based Infection Research, Germany</i>
15:00 - 15:30	Coffee break and Meet the Speakers
15:30 - 15:45	The expansion and reconfiguration of the GENCODE lncRNA catalogs based on long-read transcriptomics data Jonathan Mudge - <i>EMBL-EBI, UK</i>
15:45 - 16:00	The missing ‘linc’ between repetitive DNA and premature aging Lauren Ostrowski - <i>University of Toronto, Canada</i>
16:00 - 16:30	Differential Contribution of Steady-State RNA and Active Transcription in Chromatin Organization John Rinn - <i>University of Colorado Boulder, USA</i>

Time	Speaker
16:30 - 17:00	Identifying conserved element combinations in long noncoding RNAs Igor Ulitsky - <i>Weizmann Institute of Science, Israel</i>
17:00 - 17:15	Closing remarks
17.15 - 17.30	Departure (Buses to downtown and Frankfurt Airport)