GBM RNA biochemistry

04.10.2018-07.10.2018

Location:
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Schedule

Thursday, 4.10.2018		
15:00	Registration opens	
18:00	Dinner	
19:00	Welcome	
	Session I Regulation	
19:15	**Isabella Moll**	Alternative splicing in Bacteria?
19:35	**Sven Diederichs**	Proteome-wide and quantitative identification of RNA-dependent proteins
19:55	**Cynthia Sharma**	Campylobacter jejuni Cas9 can bind and cleave endogenous RNAs
20:15	**Elena Evguenieva-Hackenberg**	Gene regulation in trans by a bacterial attenuator RNA and leader peptide
20:30	Get-together	

Friday, 5.10.2018		
	Session II RNA structure and folding	
9:00	**Eric Westhof**	Three flavours of GoU pairs control translational fidelity
9:20	**Zasha Weinberg**	Discovery of novel classes of non-coding RNAs in bacteria with bioinformatics
9:40	**Henning Urlaub**	It takes two – UV and chemical cross-linking of proteins to RNA
10:00	**Stephanie Kath-Schorr**	RNA functionalization via an expanded genetic alphabet
10:30	Coffee break	
	Session III RNA processing	
11:00	**Roland Hartmann**	Studies on bacteria that encode two types of RNase P, the classical RNA-based and a novel RNA-free RNase P
11:20	**Markus Bohnsack**	The diverse roles of RNA helicases in driving structural transitions and compositional changes in RNA-protein complexes
11:40	**Claus Kuhn**	Planarians rebrand piRNAs to control mRNA turnover during regeneration
12:00	**Michaela Müller-McNicoll**	SRSF7 autoregulation - protein halves, intron retention and phase-separated nuclear bodies
12:30	Lunch	
	Workshop „Synthetic RNA Biology“	
13:30	**Beatrix Süß**	RNA aptamers as genetic control devices – the potential of riboswitches as synthetic elements for regulating gene expression
14:00	**Philipp Holliger**	Replicating RNA with RNA
14:30	**Oliver Rossbach**	Artificial circular RNA sponges as a novel tool in molecular biology and medicine
15:00	Coffee break	
15:30	**Mario Mörl**	A synthetic riboswitch controlling tRNA processing
16:00	**Claudia Höbartner**	N6-Methyladenosine-sensitive RNA-cleaving deoxyribozymes
16:30	**Günter Mayer**	Optoribogenetics for the light-dependent control of RNA function in cells
17:00	**Julia Weigand**	Identification of new cis-regulatory elements based on structural conservation
17:20	Poster Intro	
18:00	Dinner	
19:00	Poster A & Drinks	

Saturday, 6.10.2018		
	Session IV Ribonucleoproteins	
9:00	**Finn Werner**	Transcription and histone-based chromatin in archaea
9:20	**Dina Grohmann**	SLAM-FRET provides insights into the conformational landscape of human Argonaute 2
9:40	**Martin Hengesbach**	Single molecule FRET analysis of archaeal and eukaryotic H/ACA complexes
10:00	**Jan Diesend**	Mapping of the rRNA methylation pattern and identification of 28 novel box C/D snoRNAs in Dictyostelium discoideum
10:30	Coffee break	
11:00	**Jernej Ule**	Transcriptome-wide profiling of mammalian spliceosome and branchpoints with iCLIP
11:20	**Dorothee Staiger**	Catch me if you can: Ribonomics to identify RNA-binding protein targets in Arabidopsis
11:40	**Jan-Philip Wurm**	Conformational landscape and active conformation of the Dcp1:Dcp2 mRNA decapping complex
12:00	**Thorsten Stafforst**	SNAP-tagged tools to manipulate the transcriptome
12:30	Lunch	
13:30	**Session V Regulation 2**	
13:30	**Cindy Meyer**	The role of RNA-binding protein families and post-translation modifications in the regulation of post-transcriptional gene expression and cellular response to stress
13:50	**Jan Medenbach**	Flipping the switch on sexual development: Competition between two RNA-binding proteins controls alternative splicing and sex determination in Drosophila
14:10	**Sutapa Chakrabarti**	Isoform-specific catalytic activity of the NMD RNA helicase UPF1: how alternative splicing introduces structural changes to differentially regulate an enzyme
14:30	**Dagmar Klostermeier**	The mRNA 5'-untranslated region determines the helicase activity of the eukaryotic translation initiation factor eIF4A by modulating its conformational cycle
15:00	Coffee break	
15:30	**Maude Guillier**	Translation activation by mRNA secondary structures revealed by small RNA regulation
15:50	**Udo Bläsi**	Concerted action of Hfq and Crc in Hfq-dependent translational regulation in Pseudomonas aeruginosa
16:10	**Agamemnon J. Carpousis**	Cell biology of RNA processing and degradation in *Escherichia coli*: functional significance of RNA degradosome attachment to the inner cytoplasmic membrane
16:30	**Benedikt Beckmann**	Cell-wide purification of RNA-bound proteins in human and bacteria
17:00	Organizational meeting GBM study group "RNA Biochemistry“	
18:00	Dinner	
19:00	Poster B & Drinks	

Sunday, 7.10.2018		
	Session VI CRISPR	
9:00	**Chase Beisel**	Accelerating CRISPR discovery and application
9:20	**Thandi Schwarz**	The tRNA Splicing endonuclease of Haloferax volcanii - transcription repression and potential substrates
9:40	**Hanna Müller-Esparza**	Assembly of Class I CRISPR surveillance complexes
10:00	**Marius Rutkauskas**	Decision making in crRNA guided DNA recognition by CRISPR complexes
10:30	Coffee break	
11:00	**Session VII Chemical Biology**	
11:00	**Mark Helm**	A pipeline for total tRNA composition analysis broken down to isoacceptors and differential modification content
11:20	**Stefanie Kellner**	A novel RNA modification in bacteria – damage product or functional entity?
11:40	**Johannes Leufken**	pyRNAms enables automated omics scale nucleoside mass spectrometry data analysis for the common user
12:00	**Andrea Rentmeister**	A chemical biology approach for mapping methyltransferase target sites in RNA
12:20	Announcement of poster prizes (2 x 100€ sponsored by NAR)	
12:30	Lunch	
Have a safe trip home!		