

Advanced Lectures on “Gene Regulation, Epigenetics and Genome Stability”

Exam: Monday, 19 September, 09:00-10:00

Introductory lectures: mandatory

Regular talks: 3 tracks of your choice mandatory

The event will take place online

Introductory Lectures				DNA Repair & Genome Stability		Bioinformatics & Computational Biology		RNA Biology	
Monday, 5 September	Tuesday, 6 September	Wednesday, 7 September		Thursday, 8 September	Friday, 9 September	Monday, 12 September	Tuesday, 13 September	Wednesday, 14 September	Thursday, 15 September
			09:00 – 09:45	Title TBA Hans-Peter Wollscheid (TBC)	Genome rearrangements in health and disease Vassilis Roukos	Title TBA Shuqing Xu	Multi-scale simulations of biomolecules Lukas Stelzl	TBA	RNA-mediated regulation in neurodevelopment Jennifer Winter
			9:50 – 10:35	Mechanisms counteracting transcription-associated genomic instability Petra Beli	TBA	Design and Analysis of NGS Experiments BCF	Postgenomics in non-traditional “model” systems Peter Baumann	RNA at telomeres: regulation and function Brian Luke	Small RNAs as a genomic immune system René Ketting
			10:35 – 10:55	<i>Coffee Break</i>					
11:00 – 12:00		Introduction to IMB’s Core Facilities Andreas Vonderheit	10:55 – 11:40	Circadian regulation Eva Wolf	Title TBA Alexander Löwer	Metagenomics approaches in food authentication Thomas Hankeln	Title TBA Michal Levin	Title TBA Sven Danckwardt	Title TBA Julian Koenig
12:00 – 13:00	<i>Lunch Break</i>		11:40 – 13:00	<i>Lunch Break</i>					

Please go to the next page for the afternoon slots.

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13:00 – 14:30	Introduction to Bioinformatics & Computational Biology Katja Luck (live also for Online ISS)	Introduction to Epigenetics & Nuclear Dynamics Claudia Keller-Valsecchi (live also for Online ISS)	Introduction to Gene Regulation & Evolution Romain Libbrecht	13:00 – 13:45	The good, the bad and the ugly: Evolutionary and pathological aspects of gene dosage alterations Claudia Keller-Valsecchi	Evolution of sex determination and sex-biased genes Ann Kathrin Huylmans	Specificity in selective protein degradation Anton Khmelinskii	Regulation of gene expression in the brain Simon Rumpel	Silent cells stay young – linking heterochromatin to aging Jan Padeken	The molecular basis of premature aging diseases Nard Kubben
13:50 – 14:35				Evolutionary genomics of behaviour and life history strategies in Temnothorax ants Susanne Foitzik	Epigenetic Mechanisms in Primate Evolution Hans Zieschler	Epigenetics and transcriptional dynamics in the control of complex behaviors of mice Beat Lutz	Redox regulation of epigenetic pathways - implications for cardiovascular disease and environmental risk Andreas Daiber	Can old cancer drugs be made smarter? Piyush More	Title TBA Ilgiz Mufazalov	
14:30 – 14:50	Coffee Break			14:35 – 14:55	Coffee Break					
14:50 – 16:20	Introduction to Ageing & Disease Peter Baumann (live also for Online ISS)	Introduction to RNA Biology René Ketting (live also for Online ISS)	Introduction to DNA Repair & Genome Stability Helle Ulrich	14:55 – 15:40	Nonsense-mediated mRNA decay - an evolutionary perspective of its origin and diversification Andreas Wachter	Genomic signatures of recent adaptation in wild bees Joseph Colgan	DNA methylation and demethylation Lars Schomacher	Title TBA Maria Felicia Basilicata	Title TBA Carsten Deppermann	Engineering in vivo neurogenesis through glia-to-neuron lineage reprogramming Benedikt Berninger

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