



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

IMB, Seminar Room 2nd floor, Ackermannweg 4, Mainz

Exam: Friday, 16 August, 13:30-14:30

	Monday, 12 August	Tuesday, 13 August	Wednesday, 14 August	Thursday, 15 August	Friday, 16 August
09:00 - 09:45	Introductory Lecture: Epigenetic mechanisms in development René Ketting	Introductory Lecture: DNA replication and repair Helle Ulrich	Introductory Lecture: Epigenetic mechanisms in evolution Susanne Foitzik	Introductory Lecture: Epigenetic mechanisms in disease Jens Marquardt	Introductory Lecture: Epigenetic control of gene expression Peter Baumann
9:50 - 10:20	Small RNA mediated control of gene expression René Ketting	How to replicate damaged DNA Helle Ulrich	The role of differential gene expression for the evolution and plasticity of social insects Susanne Foitzik	Epigenetics of cancer stem cells in solid tumors Jens Marquardt	The role of telomerase in aging and cancer Peter Baumann
10:20 - 10:40	<i>Coffee Break</i>				
10:40 - 11:10	Genetic conflict and the origins of eukaryotic gene regulation Joan Barau	Mechanisms of protein quality control Anton Khmelinskii	Molecular regulation of division of labor in insect societies Romain Libbrecht	Fresh blood for the vertebrate globin family Tom Hankeln	DNA methylation and demethylation Lars Schomacher
11:15 - 11:45	Engineering of neurogenesis via lineage reprogramming Benedikt Berninger	Telomeres Falk Butter	Long-term memories in <i>Drosophila melanogaster</i> Roland Strauss	Can old cancer drugs be made smarter? Leszek Wojnowski	What does the Primary Cilium have to do with gene regulation? Helen May-Simera
11:50 - 12:20	The role of IL-17 in autoimmunity Ari Waisman	Outcomes of DNA damage in transcribed genes Andriy Khobta	Regulatory T cells: From epigenetics to metabolism and back Tim Sparwasser	Epigenetic dependencies in hematologic malignancies Michael Kühn	Symbioses as driving forces of evolutionary innovation Martin Kaltenpoth

13:20-14:20: Introductory
lectures into IMB Core
Facilities

13:30-14:30: Exam