

Wednesday 21st September 2016

SESSION VI: Gene Regulation and Fate Choices

Chair: Francois Guillemot, Nicoletta Kassaris

9:00-9:30	Drosha regulates neural stem cell fate by non-canonical regulation of RNA stability	Verdon Taylor
9:30 -10:00	Gene network controlling radial glia commitment	Stavros Taraviras
10:00-10:15	Decoding the hindbrain boundaries: From the cellular function to the genomic landscape	Cristina Pujades
10:15-10:30	Cell type-specific assessment and site-specific manipulation of DNA methylation during mouse corticogenesis	Florian Noack
10:30-10:45	Anterior/head formation depends on chromatin mediated repression downstream of graded Nodal-Smad2/3 signalling	Vasso Episkopou

11:00-11:30 Coffee Break

SESSION VII: Genome Duplication Control

Chair: John Diffley, Dominik Boos

11:30-12:00	Unreplicated DNA remaining from unperturbed S phases passes through mitosis for resolution in daughter cells	Julian Blow
12:00-12:30	From Genome Integrity to Genome Plasticity: rereplication and copy number variations	Zoi Lygerou
12:30-12:45	The timing control of the duplication of two alleles at individual loci is getting less tight as S-phase progresses: a single living cells analysis	Bénédicte Duriez
12:45-13:00	Inhibition of Histone deacetylases 1 and 2 perturbs DNA replication and DNA repair in cancer cells: Implications in mechanism-based therapeutic strategies	Srividya Bhaskara
13:00-13:15	Histone H3K9me-mediated repression is dispensable for development, but essential for the suppression of RNA:DNA hybrid-associated repeat instability	Jan Padeken

13:30-16:00 Lunch Break

SESSION VIII: Of Centrosomes and Cilia, Nuclear Pores and Fate Choices

Chair: Valerie Doye, Joao Matos

16:00-16:30	Centrosome number control in development and disease	Monica Bettencourt-Dias
16:30-17:00	Development of multiciliated ependymal cells	Nathalie Spassky
17:00-17:15	Nup133 deficiencies affect nuclear pore basket assembly and embryonic stem cell viability during differentiation	Benoit Souquet

17:30-18:00 Coffee Break

Closing Lecture

Chair: Yukiko Gotoh

	The Dynamics of Pluripotency	Austin Smith
	Concluding remarks – Poster Awards	

20:00 Conference Dinner at Ammothines Restaurant

Thursday 22nd September 2016

Departure

EMBO
Workshop

Nuclear function and cell fate choice

18-22 September 2016 | Kyllini, Greece

Programme

EMBO WORKSHOP: "Nuclear function and cell fate choice"

18 September 2016 – 22 September 2016

Olympia Riviera Resort, Kyllini, GR

Sunday 18th September 2016

14:00-18:00	Registration/Poster Placement	
18:30-20:00	Dinner	
20:00-21:00	Opening Lecture Chair: Julian Blow	
	High-throughput imaging of the genome	Tom Misteli
21:00-22:30	Welcome Reception and Poster Viewing	
22:30	Drinks by the pool (Taverna bar)	

Monday 19th September 2016

SESSION I: Replication Stress and DNA Damage Responses Chair: Monica Bettencourt-Dias, Claus Sørensen		
9:00-9:30	Mechanisms of oncogene-induced DNA replication stress	Thanos Halazonetis
9:30-10:00	SAMHD1 degrades newly-replicated DNA at stalled forks to promote replication recovery and prevent inflammation	Philippe Pasero
10:00-10:15	A mechanism for controlled pulverisation of under-replicated chromosomes during mitosis	Joao Matos
10:15-10:30	End-joining mechanisms in the formation of oncogenic translocations	Vassilis Roukos
10:30-10:45	EXD2 - a novel component of the replication fork protection pathway	Jadwiga Nieminuszczy
11:00-11:30	Coffee Break	
SESSION II: Cell Fate Choices Chair: Nathalie Spassky, Rebecca Matsas		
11:30-12:00	Signals and factors regulating stem cell activity in the adult brain	Francois Guillemot
12:00-12:30	Proliferation characteristics and migration properties of primate cerebral cortex neurons	Colette Dehay
12:30-12:45	Plasticity of dental epithelial stem cells in regeneration of dental and non-dental tissues	Thimios Mtsiadis
12:45-13:00	Regulation of cerebral cortical interneuron numbers and autism-like behaviour in mice	Nicoletta Kessar
13:00-13:15	Direct reprogramming of reactive astrocytes to differentiated neurons in vitro and in vivo following forced expression of neurogenic molecules and miRNAs	Dimitra Thomaidou
13:30-16:00	Lunch Break	

The Future of Publishing: Challenges and opportunities

Chair: Tom Misteli

16:00-17:00	Bernd Pulverer, Head, EMBO Scientific Publications, Chief Editor, EMBO J Niki Scaplehorn, Chief Editor Life Sciences, Nature Communications Hashi Wijayatilake, Senior Editor, PLOS Biology	
17:00-18:00	Meet the Editors & Poster Viewing	

SESSION III: Chromatin Modifications and Nuclear Function

Chair: Thanos Halazonetis, Srividya Bhaskara

18:00-18:30	Reading and writing DNA methylation	Dirk Schuebeler
18:30-19:00	Novel role for chromatin organization in genome maintenance	Claus Sørensen
19:00-19:15	Dynamic organization of transcription factors and nucleosomes at DNA regulatory elements	Guillermo Orsi
19:15-19:30	MST2 kinase regulates nucleolar chromatin in response to DNA damage	Dafni Eleftheria Pefani
19:30-19:45	Suppression of DNA replication stress, mitotic infidelity, and neurodevelopment defects by BCCIP	Zhiyuan Shen
20:00	Dinner	
21:30	Drinks by the pool (Taverna bar)	

Tuesday 20th September 2016

09:00-15:30	Excursion to Ancient Olympia	
SESSION IV: Stem Cells and Reprogramming Chair: Austin Smith, Colette Dehay		
16:00-16:30	Regulation of neural stem/progenitor cell fate by Polycomb group proteins during development	Yukiko Gotoh
16:30-17:00	Epigenetic Mechanisms for Inducing and Maintaining Naive Pluripotency	Jacob Hanna
17:00-17:15	Complete Nuclear Reprogramming Independently to Pluripotency	Yossi Buganim
17:15-17:30	Hetero to synkaryon: how does the transition happen?	Francesco Sottile
17:30-18:00	Coffee Break	
SESSION V: Origins and DNA Replication Chair: Marcel Mechali, Corrado Santocanale		
18:00-18:30	Reconstituting Chromosome Replication	John Diffley
18:30-19:00	How DNA replication controls S-phase length during development <i>EMBO Young Investigator Lecture</i>	Philip Zegerman
19:00-19:15	Metazoan DNA replication origins: Genetic and epigenetic features, and their functional elements	Paulina Prorok
19:30-20:30	Dinner	
20:30-22:30	Poster Viewing	
22:30	Drinks at the Lobby Bar	