

Structural and Functional Diversity of the Eukaryotic Genome

WORKSHOP PROGRAMME (tentative, Status 05 August 2010)

Venue:

The Augustinian Abbey of St. Thomas, Mendel Square, Brno, Czech Republic

Thursday October 14 2010

Time	Name	Action	
10.00 – 12.00	Workshop Secretariat	Registration, refreshments	
12.00 – 12.30	Organisers	Workshop Opening, welcome address	
12.30 -	Session I - Genome / Chromatin Architecture		
12.30 – 13.00	Giorgio Bernardi	Isochores, chromatin structure and the regulation of gene expression in the human genome	
13.00 – 13.30	Jörg Langowski	From nucleosome dynamics to nuclear architecture: Single molecule fluorescence and multiscale computer modeling of chromatin structure	
13.30 – 14.00	Kazuhiro Maeshima	How is a long strand of DNA compacted into a chromosome	
<i>14.00 – 14.25</i>	<i>Coffee Break</i>		
14.25 – 14.55	Thomas Cremer	Nuclear architecture and the topography of nuclear functions	
14.55 – 15.15	Marion Cremer	Comparison of chromatin condensation induced in human diploid fibroblasts by chaetocin or by in vitro senescence	
15.15 - 15.45	Ronald Hancock	The crucial role of entropic forces in a crowded environment for genome structure and functions	
15.45 – 16.15	Ivan Raška	Replication timing of pseudo-NORs	
16.15 – 16.25	<i>Selected talk</i>		
<i>16.25 – 16.50</i>	<i>Coffee Break</i>		
16.50 – 17.20	Jörn Walter	Epigenomic reprogramming in the mouse zygote – hydroxylation enters the stage	
17.20 – 17.50	Jiří Fajkus	Plant telomere maintenance and chromatin structure	
17.50 – 18.20	Phillip Bucher	What CHIP-Seq data tell us about gene regulation	
18.20 – 20.00	<i>Welcome drinks, poster viewing</i>		

Friday October 15 2010

Time	Name	Action
9.00	Chromatin - continued	
9.00 – 9.30	Edward N. Trifonov	Latest on the nucleosome positioning sequence patterns
9.30 – 10.00	Thomas Bettecken	The CpG - Chromatin Connection
10.00 – 10.30	Jan Mrázek	DNA curvature-related sequence periodicity in prokaryotes, viruses and organelles
10.30-10.45	<i>Selected talk</i>	
10.45-11.00	<i>Selected talk</i>	
11.00 – 11.30	<i>Coffee break</i>	
	Genome dynamics, retroelements	
11.30 – 12.00	Jan Svoboda	Retroviruses and Genetics
12.00 – 12.30	Jerzy Jurka	Evolutionary role of transposable elements: facts, hypotheses and open questions.
12.30 – 13.00	Eduard Kejnovský	Genome dynamics and sex chromosomes
13.00 – 14.30	<i>Lunch break</i>	
	Plant Genome Structure and Evolution	
14.30 – 15.00	David Sankoff	The reconstruction of ancestral dicotyledon gene orders, taking into account whole genome duplication (WGD) events
15.00 – 15.30	Jaroslav Doležel	Dissecting genetic information in crops with complex genomes
15.30 – 16.00	Volker Brendel	Modeling the fate of protein-coding gene structure in plant genomes
16.00 – 16.30	<i>Coffee break</i>	
16.30 – 17.00	Martin A. Lysák	Genome duplication and reshuffling: an insight from crucifers
17.00 – 17.15	<i>Selected talk</i>	
17.15 - 17.30	<i>Selected talk</i>	
17.30 – 18.00	Vítězslav Orel	The resurrection of Mendel's discovery
18.00 – 21.00	Poster viewing, Workshop Banquet	

Saturday October 16 2010

	<i>Genome function</i>	
9.00 – 9.30	Takashi Gojobori	
9.30 – 10.00	Hanspeter Herzel	Circadian Gene Regulation
10.00 – 10.10	<i>Selected talk</i>	
10.10 – 10.20	<i>Selected talk</i>	
10.20-10.50	<i>Coffee break</i>	
10.50– 11.20	Minoru Kanehisa	Use of chemical logic to decipher the genome in KEGG
11.20 – 11.50	Graziano Pesole	De novo detection of RNA editing changes by RNA deep-sequencing
11.50 – 12.00	<i>Selected talk</i>	
12.00 – 12.10	<i>Selected talk</i>	
12.10 – 13.00	Edward N. Trifonov	discussion – future workshops? Concluding remarks,