

## 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**

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

**Friday October 15 2010**

Time	Name	Action
9.00	<b>Chromatin - continued</b>	
9.00 – 9.30	Edward N. Trifonov	<b>Latest on the nucleosome positioning sequence patterns</b>
9.30 – 10.00	Thomas Bettecken	<b>The CpG - Chromatin Connection</b>
10.00 – 10.30	Jan Mrázek	<b>DNA curvature-related sequence periodicity in prokaryotes, viruses and organelles</b>
10.30-10.45	<i>Selected talk</i>	
10.45-11.00	<i>Selected talk</i>	
11.00 – 11.30	<i>Coffee break</i>	
	<b>Genome dynamics, retroelements</b>	
11.30 – 12.00	Jan Svoboda	<b>Retroviruses and Genetics</b>
12.00 – 12.30	Jerzy Jurka	<b>Evolutionary role of transposable elements: facts, hypotheses and open questions.</b>
12.30 – 13.00	Eduard Kejnovský	<b>Genome dynamics and sex chromosomes</b>
13.00 – 14.30	<i>Lunch break</i>	
	<b>Plant Genome Structure and Evolution</b>	
14.30 – 15.00	David Sankoff	<b>The reconstruction of ancestral dicotyledon gene orders, taking into account whole genome duplication (WGD) events</b>
15.00 – 15.30	Jaroslav Doležel	<b>Dissecting genetic information in crops with complex genomes</b>
15.30 – 16.00	Volker Brendel	<b>Modeling the fate of protein-coding gene structure in plant genomes</b>
16.00 – 16.30	<i>Coffee break</i>	
16.30 – 17.00	Martin A. Lysák	<b>Genome duplication and reshuffling: an insight from crucifers</b>
17.00 – 17.15	<i>Selected talk</i>	
17.15 - 17.30	<i>Selected talk</i>	
17.30 – 18.00	Vítězslav Orel	<b>The resurrection of Mendel's discovery</b>
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	<b>Circadian Gene Regulation</b>
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	<b>Use of chemical logic to decipher the genome in KEGG</b>
11.20 – 11.50	Graziano Pesole	<b>De novo detection of RNA editing changes by RNA deep-sequencing</b>
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,