WORKSHOP PROGRAMME

October 14, Augustinian Abbey, Brno

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**
14.00 – 14.25		*Coffee Break*
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 – 16.30	*Selected talk:* Joseph T.Y. Wong	**Assembly of liquid crystalline chromosomes**
16.30 – 16.50		*Coffee Break*
16.50 – 17.20	Jörn Walter	**Epigenomic reprogramming in the mouse zygote – hydroxylation enters the stage**
17.20 – 17.50	Phillip Bucher	**What ChIP-Seq data tell us about gene regulation**
17.50 – 18.15	Jiří Fajkus	**Plant telomere maintenance and chromatin structure**
18.15 – 18.30	*Selected talk:* Tomáš Eichler	**Novel yeast protein components involved in telomere maintenance and their interconnection with cell division**
18.30 – 20.00		*Welcome drinks, poster viewing*

October 15

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	*Selected talk:* Christopher A. Murgatroyd	**Epigenetic programming of the neuroendocrine stress system**
10.45-11.10		*Coffee break*
	Genome dynamics, retroelements	
11.10 – 11.40	Jan Svoboda	**Retroviruses and Genetics**
11.40 – 12.10	Jerzy Jurka	**Evolutionary role of transposable elements: facts, hypotheses and open questions.**
12.10 – 12.40	Eduard Kejnovský	**Genome dynamics and sex chromosomes**
12.40 - 12.55	*Selected talk:* Alexander Belyayev	**Speciation precursor: impact of transposable element dynamics in a marginal plant population**
12.55 – 13.15	*Selected talk:* David G. King	**Metaptation: Metaphors for genome evolution**
13.15 – 14.30	Lunch break	*Optional:* Mendel museum guided tour
	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 – 17.00	*Coffee break*	*Optional:* Augustinian Abbey guided tour
17.00 – 17.30	Martin A. Lysák	**Genome duplication and reshuffling: an insight from crucifers**
17.30-17.45	*Selected talk:* Hanna Schneeweiss	**Genome plasticity in Prospero (Hyacinthaceae)**
17.45-18.00	*Selected talk:* Maria Albani	**Significance of a partial tandem duplication of PEP1 studied by natural genetic variation in *Arabis alpina***
18.00 – 18.30	Vítězslav Orel/ E. Roubalová	**The resurrection of Mendel´s discovery**
18.30 – 21.00	Genome Workshop Banquet (by Jan Paukert)	***poster viewing***

October 16

	Genome function	
9.00 – 9.30	Takashi Gojobori	**A distribution of transcription start sites (TSS) over the human genome and the genome network regulation**
9.30 – 10.00	Hanspeter Herzel	**Circadian Gene Regulation**
10.00 – 10.15	*Selected talk:* Kornel Burg	**Sequence composition and gene content of the short arm of rye (*Secale cereale*) chromosome 1**
10.15 – 10.30	*Selected talk:* Roman Jaksik	**Regulation of gene expression by nucleic acid binding factors evolved by gain or loss of binding sites**
10.30-10.50		*Coffee break*
10.50– 11.20	Minoru Kanehisha	**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 – 12.05	*Selected talk:* Yechezkel Kashi	**Directed mutations in evolution: Targeted genomic and environmental modifiers**
12.05 – 12.20	*Selected talk:* Eva Bártová	**Functional re-arrangement and kinetic properties of JMJD2B histone demethylase**
12.20 – 13.00	Edward N. Trifonov	**discussion – future workshops? Concluding remarks,**