

**Monday, August 17<sup>th</sup>**

14.00 -	<b>Registration desk open</b>
18.00 – 18.30	<b>Conference opening</b>
18.30 - 19.30	<b><i>Wilhelm Bernhard Medal 2015</i></b> <i>Marion and Thomas Cremer (Germany): Evidence for a dynamic nuclear landscape based on co-aligned active and inactive nuclear compartments</i>
19.30	<b>Welcome reception</b>

**Tuesday, August 18<sup>th</sup>**

	<b>Workshop I: Nuclear structure – chromatin I</b> (chair: Pavel Hozak)
08.30 - 09.15	<i>Tobias Aurelius Knoch (The Netherlands): The detailed 3D multi-loop aggregate/rosette chromatin architecture and functional dynamic organization of the human and mouse genomes - results and perspectives of a finally solved challenge</i>
09.15 - 09.45	<i>Takashi Ohyama (Japan): Distribution of curved DNA and cruciform structures in eukaryotic genomes and local chromatin structures around them</i>
09.45 - 10.15	<i>Lóránt Székvölgyi (Hungary): RNA-DNA hybrids (R-loops) in the context of 3D chromosome architecture</i>
10.15 – 10.30	<i>Antonia Maslova (Russia): Spatial arrangement of tandem repeats in interphase nuclei of chicken lymphoblastoid cells, somatic cells and embryonic fibroblasts</i>
10.30 – 11.00	Coffee break
	<b>Workshop II: Nuclear structure – chromatin II</b> (chair: Ron Hancock)
11.00 – 11.30	<i>Gabor Szabó (Hungary): DNA topology links nucleosome stability with nuclear architecture</i>
11.30 - 12.00	<i>Sergey Razin (Russia): Epigenetic landscapes underlying partitioning of eukaryotic chromosomes into topologically-associated domains</i>
12.00 - 12.30	<i>Masahiko Harata (Japan): Roles of actin family proteins in chromatin and nuclear organization</i>
12.30 – 12.45	<i>Jekaterina Erenpreisa (Latvia): Spatial re-distribution of heterochromatin in senescing etoposide-treated cells with reduced nuclear envelope confinement</i>
13.00- 14.00	Lunch

<b>Workshop III: Nuclear structure – nucleolus</b> (chair: Marco Biggiogera)	
14.00 - 14.30	<i>Evgeny Smirnov (Czech Republic):</i> FC/DFC units of nucleoli and rDNA replication
14.30 - 15.00	<i>Marion Schmidt-Zachmann (Germany):</i> Nucleolar dioxygenases NO52 and NO66
15.00 - 15.30	<i>Patrick DiMario (USA):</i> Complete loss of Nopp140 disrupts nuclear and ribosomal homeostasis in <i>Drosophila melanogaster</i>
15.30 – 16.00	Coffee break / poster viewing
16.00 - 17.00	<i>Meeting of the WBW International Committee</i>
18.30	Dinner

### Wednesday, August 19<sup>th</sup>

<b>Workshop IV: Nuclear structure – nuclear lamina</b> (chair: Michael Jantsch)	
08.30 - 09.00	<i>Sandra Vidak (Austria):</i> Proliferation of progeria cells is enhanced by lamina-associated polypeptide (LAP) 2 alpha through expression of extracellular matrix proteins
09.00 - 09.30	<i>Oxana Zhironkina (Russia):</i> Mechanisms of nuclear lamina growth in interphase
09.30 - 10.30	<b>Wilhelm Bernhard Junior Lecturer - EMBO Young Investigator Lecture</b> <i>Evi Soutoglou (France):</i> Spatial organization of DNA repair within the nucleus
10.30 - 11.00	Coffee break
<b>Workshop V: Nuclear function - replication / DNA-repair</b> (chair: Marion Schmidt-Zachmann)	
11.00 - 11.30	<i>Chikashi Obuse (Japan):</i> DNA repair pathway is controlled by differential phosphorylation of 53BP1
11.30 - 12.00	<i>Eva Bartova (Czech Republic):</i> HP1 protein and DNA repair processes
12.00 - 12.30	<i>Jurek Dobrucki (Poland):</i> Two stages of XRCC1 recruitment in response to sublethal local DNA damage induced by focused visible light
13.00 - 14.00	Lunch
<b>Workshop VI: Nuclear function - transcription / RNA-processing I</b> (chair: Thomas Cremer)	
14.00 - 14.30	<i>Pavel Hozak (Czech Republic):</i> PIP2 islets in the cell nucleus as novel structures involved in DNA transcription

14.30 - 15.00	<i>Livia Ulicna (Czech Republic)</i> : Nuclear PIP2 binding to PHF8 histone demethylase influences polymerase I transcription
15.00 - 15.30	<i>Steven Kosak (USA)</i> : Regulatory polypeptide synthesis in the human nucleus
15.30 – 16.00	Coffee break
	<b>Workshop VII: Nuclear function - transcription / RNA-processing II</b> (chair: Frances Fuller-Pace)
16.00 – 16.30	<i>Ildikó Kristó (Hungary)</i> : Nuclear function for the actin binding cytoskeletal protein, Moesin
16.30 – 17.00	<i>Michael Jantsch (Austria)</i> : A single RNA-editing event in the mRNA encoding the actin crosslinking protein FilaminA regulates smooth muscle contraction and blood pressure control
17.00 – 17.15	<i>Andrzej Szczepankiewicz (Poland)</i> : 3D visualization of the interchromatin granule clusters` morphological changes upon neuronal stimulation by serial block-face scanning electron microscopy
17.15 – 17.30	<i>Pawel Trzaskoma (Poland)</i> : Higher-order chromatin structure changes upon kainate-induced seizures
18.30	Dinner

#### Thursday, August 20<sup>th</sup>

	<b>Workshop VIII: 57<sup>th</sup> Symposium of the Society for Histochemistry</b> Where would we like to go? - tools for assessing cell function (chairs: Margit Pavelka, Jürgen Roth)
08.30 - 09.30	<b>Robert Feulgen Lecture</b> <i>Wendy Bickmore (UK)</i> : Transcription, chromatin structure and nuclear organisation: cause and consequence
09.30 - 10.30	<b>Robert Feulgen Prize</b> <i>Hiroshi Kimura (Japan)</i> : Tracking posttranslational and epigenetic modifications of endogenous proteins in vivo
10.30 – 11.00	coffee break
11.00 - 12.00	<b>Honorary Lecture sponsored by Histochemistry and Cell Biology:</b> <i>Markus Sauer (Germany)</i> : dSTORM coming of age: From concepts to biological impact
12,00 – 12.30	<i>Joanna Rzeszowska-Wolny</i> : Reactive oxygen species in cytoplasm and nucleus
12.30 – 12.45	<i>Olga Zimina (Ukraine)</i> : Using the DNA markers for somatic chromosome segregation study in plants
13.00 – 14.00	Lunch

14.00 – 15.00	Board Meeting of the Society for Histochemistry
16.00 – 17.00	Business Meeting of the Society for Histochemistry
19.00	Dinner at a typical Viennese Heurigen

### Friday, August 21<sup>st</sup>

	<b>Workshop IX: Nuclear function - transcription / RNA-processing III</b> (chair: Gabor Szabo)
08.30 - 09.00	<i>Reet Kurg (Estonia):</i> The stability of ribosome biogenesis factor WBSR22 is regulated by interaction with the TRMT112 protein
09.00 – 09.15	<i>Patryk Janus (Poland):</i> Identification of different subsets of NFkappaB-dependent genes regulated by TNF-alpha and heat shock
09.15 – 09.30	<i>Katarzyna Szoltysek (Poland):</i> UV-C irradiation-induced cellular stress response inhibits TNF-activated NF-kappaB signalling pathway; influence of the p53 status and the process of ROS regulation
09.30 - 10.30	<b>Wilhelm Bernhard Medal 2013</b> <i>Tom Misteli (USA): Nuclear Architecture and Disease</i>
10.30 – 11.00	coffee break / poster viewing
	<b>Workshop X: Emerging techniques - tools for assessing nuclear structure and dynamics</b> (chair: Christian Schöfer)
11.00 – 11.30	<i>Konstatin Benken (Russia):</i> CLSM and AFM analysis of subcompartments in Paramecium macronucleus
11.30 – 11.45	<i>Zane Simsons (Latvia):</i> Induction of microcell formation in HeLa cells using methanol in vitro
11.45 - 12.00	<i>Minna Rajamäki (Finland):</i> Nuclear proteome of virus-infected and healthy potato plants
12.00 – 12.15	<i>Nune Hakobyan (Armenia):</i> Effect of Cisplatin on Rat Liver Nuclear Membrane Phospholipids as Integral Participants in Signal Transduction
12.15- 12.45	<i>Luc Snyers (Austria):</i> Suppression of membrane protein expression in human cell lines using CRISPR/Cas genome editing
13.00 – 14.00	Lunch
	<b>Workshop XI: Nuclear pathology</b> (chair: Marion Cremer)
14.00 – 14.30	<i>Yegor Vassetzky (France):</i> Nuclear organization, oncoviruses and cancer
14.30 – 14.45	<i>Anda Huna (Latvia):</i> DNA damage induced p53-dependant OCT4 prevents terminal senescence in PA1 teratocarcinoma cells after etoposide treatment

14.45 – 15.15	coffee break
15.15 – 15.45	<i>Frances Fuller-Pace (UK):</i> The RNA helicase DDX5 (p68) regulates expression of the cell cycle arrest gene p21WAF1 at multiple levels and plays an important role in governing the choice between cell cycle arrest and apoptosis in response to DNA damage
15.45 - 16.15	<i>Shigenobu Tone (Japan):</i> Analysis of apoptotic nuclear machinery using a cell-free system
16.15	<b>Closing of the conference</b>
19.00	<b>Symposium banquet</b>