
Central European Genome Stability and Dynamics Meeting
October 15th – 16th, 2016
Zagreb, Croatia

Scientific Program

under the auspices of



financially and logistically supported by



conceptually recognized by

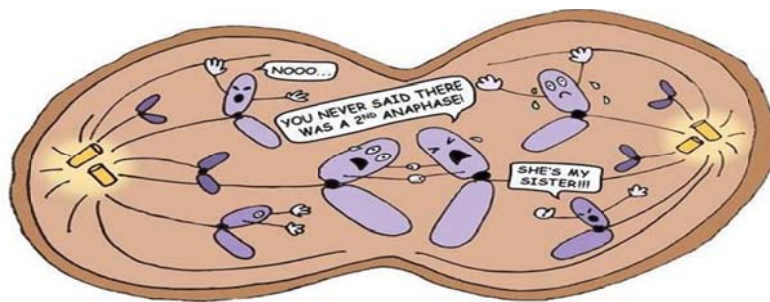


Fulgosi Group

sponsored by



powered by *Brčić-Kostić Group*



Science Is About Thinking

Central European Genome Stability and Dynamics Meeting

Saturday, October 15th

10:00 – 10:30 Registration & Coffee/Refreshment

10:30 – 10:40 Opening address

First Session¹, Chair: Lajos Haracska

- 10:40 – 11:00 **Lóránt Székvölgyi**^A (University of Debrecen)
Unraveling the Set1 histone methylase complex (Set1C) in meiotic DNA break and crossover pattern formation
- 11:00 – 11:20 **Theresa Schwarz**^B (Johannes Kepler University)
Characterization of the PRDM9 zinc-finger array binding and multimer formation
- 11:20 – 11:40 **Jan Paleček**^C (Masaryk University)
Evolution and functions of SMC complexes: new SMC5/6 insights
- 11:40 – 12:00 **Jaroslav Fulneček**^D (CEITEC Masaryk University)
Translocation of Ku along DNA is critical for DNA repair but not for telomere protection

12:00 – 13:00 Light lunch

Second Session, Chair: Peter Schlögelhofer

- 13:00 – 13:20 **Duška Vujaklija**^E (Ruđer Bošković Institute)
What is the difference between SsbA and SsbB?
- 13:20 – 13:40 **Ana Šimatović**^F (Ruđer Bošković Institute)
The RecA730-mediated ATP binding and hydrolysis with respect to SOS response and DNA recombination
- 13:40 – 14:00 **Lucia Molnárová**^G (Comenius University in Bratislava)
Dbl2 regulates Rad51 nucleofilament during homologous recombination to ensure proper meiotic chromosome segregation
- 14:00 – 14:20 **Ondrej Belán**^H (Masaryk University)
RAD51 modulators: shaping the filament

14:20 – 15:00 Short pause

Third Session, Chair: Miroslav Chovanec

- 15:00 – 15:20 **Gábor Harami**^I (Eötvös Loránd University)
Physical mechanism of DNA unwinding by RecQ (and other) helicases
- 15:20 – 15:40 **Máté Martina**^I (Eötvös Loránd University)
In vivo investigation of RecQ helicase functions in recombinational repair and meiosis
- 15:40 – 16:00 **Anna Papageorgiou**^J (CEITEC Masaryk University)
Structural basis for DNA recognition by human RECQ4 DNA helicase
- 16:00 – 16:20 **Angelika Heißl**^B (Johannes Kepler University)
The influence of short tandem repeat polymorphism on meiotic recombination in humans
- 16:20 – 16:40 **Petar Tomev Mitrikeski**^F (IRES & Ruđer Bošković Institute)
Resolving, resolving ... resolved!

16:40 – 17:00 Short pause

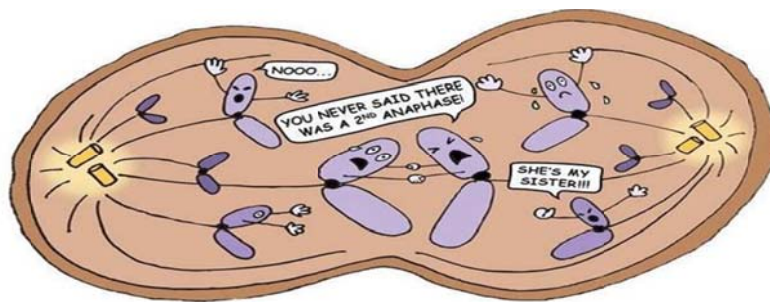
Fourth Session, Chair: Irene Tiemann-Boege

- 17:00 – 17:20 **Peter Schlögelhofer**^K (Max F. Perutz Laboratories, University of Vienna)
ATM regulates meiotic DSB formation and recombination in *Arabidopsis thaliana*
- 17:20 – 17:40 **Jason Sims**^L (Max F. Perutz Laboratories, University of Vienna)
Control of meiotic recombination at the rDNA locus

20:30 Gathering together

^A Principal investigator (PI); ^B Tiemann-Boege group; ^C PI; ^D Říha group; ^E PI; ^F Brčić-Kostić group; ^G Gregáň group; ^H Krejčí group; ^I Kovács group; ^J Tripsianes group; ^K PI; ^L Schlögelhofer group.

¹ All session talks are 15 min + 5 min discussion.



Science Is About Thinking

Sunday, October 16th

09:00 – 09:45 Coffee/Refreshment

09:45 – 10:00 Group photo

Fifth Session, Chair: Ksenija Zahradka

10:00 – 10:20 **Miroslav Chovanec**^M (Biomedical Research Centre, Slovak Academy of Sciences)

ICL repair in yeast

10:20 – 10:40 **Karina Movsesian**^N (Masaryk University)

Fanconi anaemia-associated mutation alters biochemical properties of *RAD51* nucleoprotein filament

10:40 – 11:00 **Ágnes Tóth**^O (Biological Research Centre, Hungarian Academy of Sciences)

The DNA-binding box of human SPARTAN contributes to the targeting of Polη to DNA damage sites

11:00 – 12:00 Light lunch

Sixth Session, Chair: Krunoslav Brčić-Kostić

12:00 – 12:20 **Tibor Pankotai**^P (University of Szeged)

Transcriptional outcomes in response to DNA damage

12:20 – 12:40 **Ádám Póti**^Q (Research Centre for Natural Sciences, Hungarian Academy of Sciences)

Collateral mutations caused by translesion DNA synthesis

12:40 – 13:00 **Orsolya Frittmann**^R (Biological Research Centre, Hungarian Academy of Sciences)

Dissecting the main regulator of DNA damage tolerance

13:00 – 13:20 Short pause

Seventh Session, Chair: Ildikó Unk

13:20 – 13:40 **Bruno Polak**^S (Ruđer Bošković Institute)

One-to-one association between PRC1-labeled microtubule bundles and kinetochore pairs in metaphase

13:40 – 14:00 **Juraj Simunić**^S (Ruđer Bošković Institute)

Dynamics of PRC1 labelled microtubule super-bundles in prometaphase spindle during chromosome congression

14:00 – 14:20 **Kruno Vukušić**^S (Ruđer Bošković Institute)

Forces in bridging fibers segregate chromosomes independently of the attachment to the spindle pole

14:20 – 14:40 Short pause

Eighth Session, Chair: Dávid Szüts

14:40 – 15:00 **Jelena Repar**^T (Ruđer Bošković Institute & Imperial College London)

Elevated rate of genome rearrangements in radiation resistant bacteria

15:00 – 15:20 **Beáta G. Vértessy**^U (Budapest University of Technology & Hungarian Academy of Sciences)

Jumping the species barrier: A moonlighting repressor leads to DNA uracilation and perturbs genome integrity in human tumor cells and in Mycobacteria

15:20 – 15:40 Short pause

Closing lecture², Chair: Lóránt Székvölgyi

15:40 – 16:20 **Franz Klein**^V (Max F. Perutz Laboratories, University of Vienna)

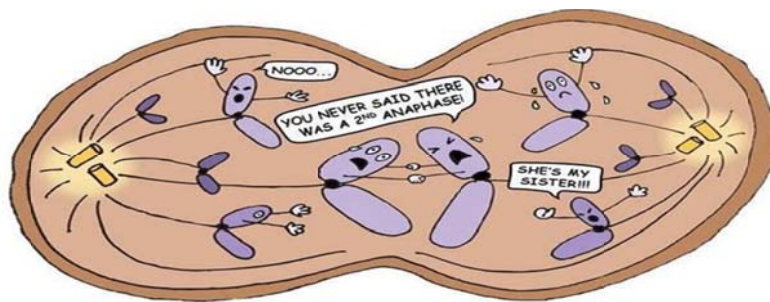
Chromosomal fragments become excised in wild type and mutant meiosis

16:30 – 16:35 Closing address

16:35 – 16:45 Contemplating on CEGSDM 2017

^M PI; ^N Krejčí group; ^O Haracska group; ^P PI; ^Q Szüts group; ^R Unk group; ^S Tolić group; ^T Zahradka group; ^U PI; ^V PI.

² Closing lecture is 30 min + 10 min discussion.



Science Is About Thinking

Supporting Info

Venue

Department of Chemistry, Faculty of Science, University of Zagreb
 Horvatovac 102A
 HR-10000 Zagreb, Croatia

<http://www.pmf.unizg.hr/chem/en>

Note: Plenty of free parking space at site.

Rally point

Kaptol (Cathedral square) https://en.wikipedia.org/wiki/Kaptol,_Zagreb

To see the bus-stop please click here: https://en.wikipedia.org/wiki/Kaptol,_Zagreb#/media/File:Flores_en_la_call_e_Kaptol,_Zagreb,_Croacia,_2014-04-13,_DD_01.JPG

Getting to the Venue from the rally point

Bus N^o: 106, 201, 226

Need to know (!)

- Congress crew will meet you at the rally point and accompany you to the Venue on Saturday; after 09:50 the Congress crew will no longer wait at the rally point;
- In case you are late, please take any of the above buses and get off at the third stop where you will be met and directed further; the bus will not halt unless the stop-bottom is pressed.

Bus schedule

Saturday	N ^o 106	09:10 h – 09:30 h – 09:50 h
	N ^o 201	09:00 h – 09:35 h
	N ^o 226	09:35 h
Sunday	N ^o 106	08:10 h – 08:30 h – 08:50 h
	N ^o 201	08:25 h
	N ^o 226	08:45 h

Ticket

How much does it cost?	10 HRK (see below please).
Where shall I buy it?	Bus-driver will sell it; newsstands also.
How shall I validate it?	Upon entering cancel the ticket (slot in the yellow machine).

Ticket validity

90 min in one direction.

Arriving at the Venue by car

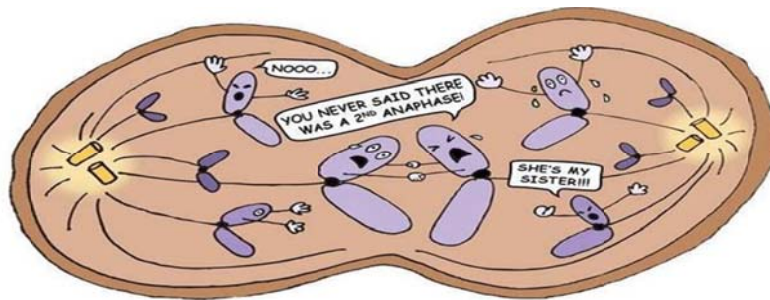
You are own your own! Perhaps, it's better to let your GPS do the job (see the venue address above).

Currency in Croatia

You can only pay in Croatian Kuna (HRK); euro (€) is not accepted as official way of payment.

Currency ranking <http://www.xe.com/currency/hrk-croatian-kuna>

See further please.



Science Is About Thinking

Miscellaneous

Registration

We prefer to register the participating research groups (RG); therefore, all PIs are kindly invited to register at the Info-desk upon arrival on Saturday; other participants are not obliged to register; the logical exceptions are (i) participants from RGs whose PIs are not participating in CEGSDM 2016, (ii) please see section *Poster presentations*.

Poster presentations

Limited number of poster boards (dimensions: 1.2 m × 1.2 m) is available at premises although no separate poster section is contemplated (poster viewing is *ad libitum*); participants planning to present posters are kindly asked to announce their intention prior to October 12th, 2016; posters can be mounted upon arrival on Saturday.

Internet access

No free Wi-Fi service is available at premises. However, *eduroam* is available. Please, visit http://www.eduroam.hr/?locale=en_EN

Short pause

Coffee & cakes; limited supply of bottled water
Participants are encouraged to bring their own source of water.

Lunch

Sandwich bar
In general, the special diet requests will be met.
(However, persons with special diet needs are encouraged to bring their own food if necessary).

Gathering together

Pizza & beer
Bringing additional beer will not be refused.

Weather in Zagreb

Please check the weather forecast at http://meteo.hr/index_en.php

City of Zagreb

In case you wanna discover the city <http://www.infozagreb.hr/&lang=en>
<http://www.zagreb.hr/default.aspx?id=1979>
<https://en.wikipedia.org/wiki/Zagreb>

Acknowledgments

CEGSDM 2016 expresses gratitude to **Ruđer Bošković Institute** (chief patron), **The Foundation of the Croatian Academy of Sciences and Arts** (main financial supporter), **Faculty of Science, University of Zagreb** (main logistic supporter), and **Croatian Biological Society & Croatian Association of Genetic Engineers** for believing in us; without their trust, understanding and help numerous goals would have been impossible to achieve.

Brčić-Kostić group would like to thank Professor Miroslav Plohl (President of the Scientific Council of Ruđer Bošković Institute) for his sincere support; we also thank Professor Vladislav Tomišić (Head of Department of Chemistry, Faculty of Science, University of Zagreb) for his open-mindedness; we thank Professor Hrvoje Fulgosi (Ruđer Bošković Institute) for his friendly gesture; finally, we thank Professor Peter Schlögelhofer (University of Vienna) for useful suggestions that simplified the organization of *CEGSDM 2016*.