

Program Overview

Sunday, 15 September 2019

14:00 - 14:55 **Registration/Check-in** at Eurotel Victoria

15:00 - 15:05 **Welcome address**

Meeting chairs: Stephan Gruber (UNIL, CH)

Carlos Gómez Marín (CABIMER, ES)

Organizer: Elena Cardenal (LS2)

15:05 - 16:50 **Oral presentations I** (10' plus 2' questions)

Coelho, João (Instituto Gulbenkian de Ciência, PT)

"In vivo dynamics of topoisomerase II during mitosis in Drosophila embryos"

Dalvie, Esha D (Vanderbilt University, US)

"Effects of DNA supercoil handedness on catenation and decatenation by type II topoisomerases"

Rani, Phoolwanti (Indian Institute of Science, IN)

"Genome-wide mapping of Topoisomerase I activity sites reveal its role in chromosome segregation"

Terrón-Bautista, José (CABIMER-CSIC, ES)

"Dynamics of Topoisomerase II activity"

Kuzin, Vladislav (Karolinska Institutet, SE)

"Molecular characterization of Topoisomerase 2 alpha regulation during transcription"

Cameron, Donald (Karolinska Institutet, SE)

"The c-Myc oncogene stimulates Top2α activity through distinct interaction domains"

LS² Satellite Meeting: DNA Topoisomerases & DNA Topology
16-17 September 2017 | Eurotel Victoria | Les Diablerets

Ling, Elise (Newcastle University, UK)

"DNA Cleavage of Human DNA Topoisomerase II α and II β "

16:50 - 17:20 **Coffee break**

17:20 - 18:50 **Oral presentations II (10' plus 2' questions)**

Joseph, Chinnu R (IFOM the FIRC Institute of Molecular Oncology, IT)

"Investigating the roles of Ctf4 in camptothecin-mediated torsional stress"

Oviatt, Alexandria (Vanderbilt University, US)

"Actions of a naphthyridone/aminopiperidine-based antibacterial targeting bacterial type II topoisomerases"

Muralikrishnan, Balaji (Rajiv Gandhi Centre for Biotechnology, IN)

"Chrysomycin binds DNA to ablate the genome dynamics"

Jirkovská, Anna (Charles University, CZ)

"The protection of anthracycline cardiotoxicity by several structural analogues of bis-dioxopiperazines is tightly bound to their topoisomerase II inhibition"

Skalicka, Veronika (Charles University, CZ)

"XK-469 influences the survival and DNA damage induced by anthracyclines in neonatal cardiomyocytes"

Jirkovsky, Eduard (Charles University, CZ)

"Effective protection against anthracycline cardiotoxicity is tied to drug interaction with topoisomerase II beta not to iron chelation"

19:00 - **Dinner in the hotel**

Afterwards **Overnight stay at Eurotel Victoria**

Monday, 16 September 2019

Until 08:45 **Breakfast at Eurotel Victoria**

09:00 - 10:15 **Oral presentations III (10' plus 2' questions)**

Allen, Adam (John Innes Centre, UK)

"DNA topoisomerase VI: a novel target for herbicides... and antimalarial drugs?"

Baskerville, Victoria (John Innes Centre, UK)

"Role of the catalytic metal ion during the type II topoisomerase DNA cleavage and religation cycle"

Mazurek, Łukasz (Malopolska Centre of Biotechnology, Jagiellonian University, PL)

"Interaction of plasmid-mediated quinolone-resistance factor QnrB1 with Escherichia coli DNA gyrase."

Waraich, Nidda (John Innes Centre, UK)

"DNA gyrase of Arabidopsis thaliana"

Villain, Paul (Institute of Integrative Biology of the Cell [I2BC], FR)

"Introducing an opposite twist: Consequence of DNA Gyrase activity on fitness and DNA topology of the hyperthermophilic archaeon Thermococcus kodakarensis"

10:15 - 10:45 **Coffee break**

10:45 - 11:45 **Oral presentations IV (10' plus 2' questions)**

Takahashi, Tomio (Institute of Integrative Biology of the Cell [I2BC], FR)

"DNA topoisomerases VIII: an expanding subfamily of atypical type II DNA topoisomerases"

LS² Satellite Meeting: DNA Topoisomerases & DNA Topology
16-17 September 2017 | Eurotel Victoria | Les Diablerets

Provan, James (University of Glasgow, UK)
"Observation of DNA topology by Atomic Force Microscopy"

Main, Kavita (UCL Cancer Center, University College London, UK)
"Targeting twist: single molecule insights into the topological dependence of DNA-topoisomerase interactions"

Barbensi, Agnese (University of Oxford, UK)
"Grid diagrams as tools to investigate knot spaces and topoisomerase-mediated simplification of DNA topology"

- 11:45 - 12:45 **Lunch in the hotel**
- 12:45 - 13:40 **Lecture: Stephan Gruber & Carlos Gómez Marín**
Title tba
- 13:40 - 14:30 **Q&A session with Stephan Gruber & Carlos Gómez Marín and early-arriving plenary speakers**
- 14:30 - 15:00 **Poster mounting and transition to EMBO workshop**