

BIONIC 2018

List of Posters: Session I

Thursday, 27th September, Presentation Time: 05.20pm – 06.30pm

#	Authors	Title
P1	<u>Václav Brázda</u> , Jan Kolomazník, Jiří Lýsek, Martin Bartas, Miroslav Fojta, Jiří Šťastný, Jean-Louis Mergny	A new web-server for local DNA structures analyses
P3	<u>Jeong Hwan Hur</u> , Sungjin Lee, Nazia Parveen, Jihyeon Yu, Amen Shamim, Kang Chanyoung, Armbarnil Gosh, Sangsu Bae, Chin-Ju Park, Kyeong Kyu Kim	A novel DNA quadruplex containing protonated adenine: cytosine base pairs has a role in gene regulation
P5	<u>Joanna Kosman</u> , Bernard Juskowiak	Peroxidase-mimicking DNAzyme based on thrombin-binding aptamer (TBA) with inversion of polarity
P7	<u>Roberta Rocca</u> , Raffaella Catalano, Giosuè Costa, Nicola Amodio, Anna Artese, Sara N. Richter, Stefano Alcaro, Pierfrancesco Tassone	Application of different computational approaches to identify small molecules with specific interference to lncRNA activity
P9	<u>Liliya A. Yatsunyk</u> , Deondre Jordan, Barrett M. Powell, Jessica Chen, Jonathan B. Chaires, William L. Dean, Eric J. Brown	Structural studies of CAGAGG repeats from difficult-to-replicate regions of the mammalian genome
P11	<u>Zuzana Dvořáková</u> , Michaela Vorlíčková, Daniel Rencuik	What type of G-quadruplex is formed by five-repeat telomere DNA sequence upon particular G-block damage?
P13	<u>Barira Islam</u> , Petr Stadlbauer, Jiri Sponera	Assessing the (un)stability of two-quartet G-quadruplexes in MD simulations
P15	<u>Iva Kejnovská</u> , Klára Bednarova, Daniel Rencuik, Zuzana Dvorakova, Petra Skolakova, Lukás Trantírek, Radovan Fiala, Janos Sagi, Michaela Vorlickova	Abasic lesions profoundly change the structure and stability of human telomeric G-quadruplexes
P17	<u>Weronika Kotkowiak</u> , Jesper Wengel, Anna Pasternak	G-quadruplex:duplex junction containing modified nucleic acid monomers: thermodynamic, structural and biological effects
P19	<u>Lena Schnarr</u> , Klaus Weisz	Expanded G-Quadruplex Architectures as Targets for Indoloquinoline Ligands
P21	Tinkara Troha, Irena Drevenšek-Olenik, Mirjana Malnar, Boris Rogelj, <u>Lea Spindler</u>	AFM Study of G-Quadruplex Forming G4C2 Repeats in Long Linearized DNA Molecules
P23	<u>Karolina Zielińska</u> , Dorota Gudanis, Daniel Baranowski, Ryszard Kierzek, Zofia Gdaniec	The effect of chemical modifications and G4 ligands on the stability of RNA G-quadruplex-duplex hybrids
P25	<u>Petra Školáková</u> , Daniel Renčiuk, Jan Palacký, Daniel Krafčík, Zuzana Dvořáková, Iva Kejnovská, Klára Bednářová, Michaela Vorlíčková	Principles of pH dependent i-Motif formation
P27	<u>Summer S. Rosonovski</u> , Christopher J. Morris, Zoë A.E. Waller	Developing Probes to Target i-Motif DNA Structures
P29	<u>Raimundo Gargallo</u> , Sanae Benabou, Anna Aviñó, Sébastien Lyounnais, Carlos González, Ramon Eritja, Anna De Juan	i-motif structures in long cytosine-rich sequences found upstream of the promoter region of the SMARCA4 gene

P31	<u>Thomas Lavergne</u> , Alexandre Devaux, Laureen Bonnat, Laure Bar, Angelique Pipier, Dennis Gomez, Marie-Line Andreola, Jérôme Dejeu, Eric Defrancq	Applications of G-quadruplex foldamers
P33	<u>Sara Lago</u> , Ilaria Frasson, Matteo Nadai, Emanuela Ruggiero, Sara N. Richter	Identification, characterization and biological significance of a highly stable G-quadruplex in Mdm2 proto-oncogene inducible promoter
P35	<u>Pratima Gurung</u> , Elodie Gazanion, Vincent Guitard, Satya Pandey, Katrin Paeschke, Patrizia Alberti, Serge Urbach, Laurent Lacroix, Jose-Juan Lopez-Rubio	Deciphering the role of G-quadruplex (G4) and G4-interacting proteins in Plasmodium falciparum
P37	<u>Ikenna Obi</u> , Matilda Rentoft, Jan Jamroskovic, Nasim Sabouri	Stabilized G-quadruplex structures in <i>S. pombe</i> cause replication pausing
P39	<u>Wenhuan Tang</u> , Kangkang Niu, Qisheng Song, Qili Feng	Visualization of DNA secondary structure i-motif in <i>Bombyx mori</i> spermary cells
P41	Viktor Tokan, Janka Puterova, Matej Lexa, Boris Vyskot, <u>Eduard Kejnovsky</u>	<i>In vivo</i> study of G-quadruplexes and satellites within transposable elements
P43	<u>Kangkang Niu</u> , Qisheng Song, Qili Feng	<i>In vivo</i> detection of G4 structures by the novel and conserved G4-binding protein LARK in invertebrate and vertebrate cells
P45	<u>Artemy Beniaminov</u> , Dmitry Kaluzhny	Footprinting of ligand interactions with canonical and non-canonical DNA structures by porphyrins
P47	<u>Agata Głuszyńska</u> , Bernard Juskowiak	Interaction of carbazole ligands with G-quadruplexes found in human genome and in promoter regions of certain oncogenes
P49	Jérémy Lamarche, <u>Pauline Lejault</u> , David Monchaud	G4-UNFOLD: an <i>in vitro</i> assay to identify DNA/RNA G-quadruplex (G4)--destabilizing small molecules
P51	<u>Juan Carlos Morales</u> , Efres Belmonte-Reche, Marta Martínez-García, Aurore Guédin, Michela Zuffo, Matilde Arévalo-Ruiz, Filippo Doria, Jenny Campos-Salinas, Marjorie Maynadier, José Juan López-Rubio, Mauro Freccero, Jean-Louis Mergny, José María Pérez-Victoria	G-quadruplex identification in the genome of protozoan parasites: carbohydrate naphthalene diimide ligands as new antiparasitic agents
P53	<u>Chiara Platella</u> , Domenica Musumeci, Jussara Amato, Bruno Pagano, Antonio Randazzo, Annamaria Biroccio, Daniela Montesarchio	Evidence for selectivity improvement in G-quadruplex-targeting chemotype analogs by G4-CPG binding assay, biological and biophysical evaluation
P55	<u>Shogo Sasaki</u> , Yue Ma, Kazuo Nagasawa	Development of linear hexaoxazoles as anti-parallel type topology-selective G-quadruplex stabilizing ligands
P57	<u>Philip Spence</u> , John Fielden, Zoë. A. E. Waller	[Ru(bqp) ₂] ²⁺ and its interactions with double-stranded, G-quadruplex and i-motif DNA
P59	<u>Paola Soldà</u> , Sara Callegaro, Matteo Scalabrin, Laurence H. Hurley, Sara N. Richter	Quindoline derivative G4 ligands targeting the HSV-1 G-quadruplexes
P61	Michela Zuffo, Martina Tassinari, <u>Valentina Pirota</u> , Adriana C. Sevilla Montalvo, Matteo Nadai, Filippo Doria, Matteo Scalabrin, Sara N. Richter, Mauro Freccero	Targeting of HIV-1 LTR promoter G-quadruplex structures by NDI-PNA conjugates
P63	<u>Matteo Nadai</u> , Filippo Doria, Matteo Scalabrin, Valentina Pirota, Vincenzo Grande, Greta Bergamaschi, Valeria Amendola, Fernaldo	A catalytic and selective scissoring molecular tool for Quadruplex nucleic acids

	Richtia Winnerdy, Anh Tuân Phan, Sara N. Richter, Mauro Freccero	
P65	<u>Dmitry Kaluzhny</u> , Galina Chashchina, Anna Shchiolkina, Artemy Beniaminov	Mapping of G4 structures in long double stranded model of hTERT promoter
P67	<u>Sagar Satpathi</u> , Reman K. Singh, Arnab Mukherjee, Partha Hazra	Controlling an Anticancer Drug Mediated G-quadruplex Formation and Stabilization by a Molecular Container
P69	<u>Marco Caterino</u> , Silvia Di Fonzo, Jussara Amato, Luigi Petraccone, John W. Brady, Attilio Cesaro, Concetta Giancola	UV Resonance Raman Spectroscopy applied to the structural dynamics of DNA G-quadruplexes
P71	Julia Masternak, <u>Anna Dembska</u> , Błażej Rubiś, Bernard Juskowiak	I-motif based probes for monitoring changes in cancer cells metabolism induced by doxorubicin
P73	<u>Laurence H. Hurley</u> , Richard Austin, Vijay Gokhale	Reglagene: A Quadruplex Master Switch Technology Company