

Poster session 1: Tuesday, 28 June from 6:30 till 11:00 PM

P-001	Adámik Matej	G4 recognition by p63 and transcriptional activity modulation by ligands
P-002	Aleksič Simon	Oxidized quartet with a large central cavity
P-003	Armas Pablo	CNBP unfolds DNA and RNA G-quadruplex structures and, through this activity, may control transcription and translation of cellular genes and SARS-CoV2 viral replication
P-004	Armas Pablo	CNBP Binds and Unfolds In Vitro G-Quadruplexes Formed in the SARS-CoV-2 Positive and Negative Genome Strands
P-005	Armas Pablo	G-Quadruplexes Regulate miRNA Biogenesis in live zebrafish embryos
P-006	Armas Pablo	Genetic polymorphisms in G-Quadruplex affect transcription of human disease-related genes
P-007	Armas Pablo	Genetic polymorphism on G-quadruplexes as a cause of oncogenes transcriptional and translational expression variations
P-008	Asamitsu Sefan	Toward elucidating roles for RNA G-quadruplexes in neurons
P-009	Bartas Martin	G-quadruplex forming sites in DNA/RNA vaccines
P-010	Basu Pritha	Do stable two tetrad intramolecular RNA quadruplexes exist?
P-011	Bednářová Klára	Diversity of parallel guanine quadruplexes induced by guanine substitutions
P-012	Bertini Luca	Role of fast dynamics in the complexation of G-quadruplexes with small molecules
P-013	Boissieras Joseph	Studying the effects of ligands on i-motifs by chemical denaturation
P-014	Boučková Michaela	Recognition of telomeric repeat variants by POT1
P-015	Brazda Vaclav	The complete gapless assembly of the human genome reveals a previously unnoticed underestimation of alternative nucleic acid structures (plus new G4-database)
P-016	Brazdova Marie	Structure and topology of NA in the biology of the p53 family and telomere
P-017	Buffet Charles-Henri	A new family of alkylating G-quadruplex (G4) ligands to capture G4 structures.
P-018	Burkhart Ines	Interaction studies of DNA G-quadruplex and Zuo1 protein complexes by NMR spectroscopy
P-019	Cerven Jiri	Quadruplexes in the Amyloid precursor protein gene
P-020	Ceschi Silvia	Vimentin binds to G-quadruplex repeats found at telomeres and gene promoters
P-021	Cozzaglio Marta	G-quadruplexes within the promoter of the TEAD4 oncogene
P-022	Cucchiaroni Anne	Too salty? Effect of cations on G-quadruplex stability
P-023	D'Aria Federica	A G-quadruplex-forming aptamer against mutant huntingtin protein: biophysical characterization, in vitro and in vivo studies
P-024	Dembska Anna	Investigating the interaction of 9-methoxyluminarine with i-motif DNA.

P-025	Di Fonzo Silvia	How does UV Resonance Raman spectroscopy detect the order of molecular events in DNA upon external variable changes?
P-026	Di Porzio Anna	Synthesis and characterization of bis-triazolyl-pyridine derivatives as noncanonical DNA-interacting compounds
P-027	Doria Filippo	G-quadruplexes DNA as a New Potential targets in pathogenic bacteria.
P-028	Dvořáková Zuzana	i-motifs with DNA, RNA and DNA/RNA hybrid cytosine base pairs
P-029	Esnault Cyril	G4access reveals G-quadruplexes association to open chromatin and to imprinting regions control
P-030	Eyer Ludek	Guanine quadruplexes in the RNA genome of the tick-borne encephalitis virus: a new antiviral target
P-031	Ferreira Rodrigues Carla Filipa	A General Assignment Strategy for RNA G-quadruplexes
P-032	Gabelica Valérie	Alternative views on G-quadruplex topologies
P-033	Gajarský Martin	Phylogenetically diverged structural motifs in telomeric DNA
P-034	Garavís Miguel	2'-F-arabincytidine substitutions in 5'-TCCCC-3' promote the formation of unique dimeric i-motifs stabilized by CH...F hydrogen bonds
P-035	Ghezzi Michele	Minimum folding sequence pattern for a 3 cytosine-cytosine+ base-paired I-motif.
P-036	Ghosh Anirban	2'-Fluoro-arabinonucleic Acid (FANA) as a Sensitive 19F NMR Probe of G-quadruplex folding and ligand binding
P-037	Głuszynska Agata	Interaction of copper 12-MC-4 metallacrown with DNA G-quadruplexes - spectroscopic studies
P-038	Golub Eyal	Repurposing Hemopeptides Into Versatile G-Quadruplex Ligands
P-039	Guittat Lionel	Detection of G-quadruplexes (G4) with super-resolution microscopy in <i>Haloferax volcanii</i> ; a model archaeon for studying G4 functions.
P-040	Hajikazemi Mona	Understanding telomere dynamics with G-quadruplex secondary structures in <i>S. cerevisiae</i>
P-041	Haley Michel	A Tale of Two Loops: Characterization of Two G-Quadruplexes in the HIV-1 Long Terminal Repeat Using Polarizable Molecular Dynamics Simulations
P-042	Hilbig Daniel	The role of the helicase DHX36 in posttranscriptional regulation and stress response
P-043	Hoehne Michaela	Towards decoding epigenetic subtypes, resistance mechanisms and vulnerabilities of small cell lung cancer
P-044	Holoubek Jiri	Conformation-dependent mutations of guanine quadruplexes in the RNA genome of tick-borne encephalitis virus
P-045	Domen Oblak	Stability of AGCGA quadruplexes and their recognition by nanobodies.
P-046	Hwang Jihee	The interplay between GQ, R-loop, and DNA superhelicity in transcription regulation
P-047	Iaccarino Nunzia	Conformational plasticity of DNA secondary structures: probing the conversion between i-motif and hairpin species by multivariate analysis of circular dichroism data
P-048	Ištvánková Eva	Towards profiling of the G-quadruplex targeting drugs in the living human cells using NMR spectroscopy
P-049	Jakubec Martin	Supernova: a deoxyribozyme that catalyzes a chemiluminescent reaction

P-050	Jedlicka Pavel	G-quadruplexes in telomeric retrotransposones of Drosophila species
P-051	Jurkowski Michał	Why do G-quadruplexes show strong preference for right-handed conformations?
P-051	Kastl Melanie	G-quadruplex Structures Affect the Immune Response to Bacterial Infection in Mouse Macrophages
P-052	Kašparová Helena	Systematic insights into conformation and stability of guanine quadruplexes
P-053	Kejnovska Iva	G-Quadruplex formation by DNA sequences deficient in guanines: Two tetrad parallel quadruplexes do not fold intramolecularly
P-054	Kharel Prakash	An unbiased highthrouput approach identifies novel RNA G-quadruplex binding proteins in human cells
P-055	König Alexander	Native Mass Spectrometry to elucidate how Foldamer Ligands selectively target G-Quadruplex Topologies
P-056	Lavergne Thomas	Interaction between non canonical DNA conformations and their targeting ligand by optical technics: SPR AND BLI
P-057	Lavigne Marc	Biochemical and functional characterization of SARS-CoV-2 Nsp3 – RNA G4 complexes. Therapeutic properties of G4-ligands inhibiting their formation.
P-058	Le Senechal	Role of RNA G-quadruplex in alternative splicing of the anti-apoptotic gene BCL-x and use as a therapeutic target for chemotherapy resistant cancers
P-059	Lenarčič Živković Martina	Pseudocircular G-hairpins: novel structural class of motifs, formed by G-rich DNA sequences
P-060	Libera Valeria	Binding of BRACO-19 to a Telomeric G-Quadruplex: Light excimer formation and conformational switching
P-061	Libera Valeria	Correlation between secondary and quaternary properties in G-quadruplex complexed with photosensitive ligands before and after irradiation
P-062	Limmer Michaela	Contribution of G-Quadruplex Formation for DNA Repair
P-063	Luo Yu	Iso-FRET: An isothermal competition assay to analyze quadruplex formation in vitro
P-064	Marsh Thomas	G-quadruplex Structure and Function in the Undergraduate Biochemistry Laboratory



Poster session 2: Thursday, 30 June from 6:30 till 11:00 PM

P-065	Martin Kailey	Biophysical characterization and crystallization of an i-motif from the HIF-1A promotor
P-066	Marušič Maja	SARS Cov-2 Nsp3c peptides bind high order G-rich structures
P-067	Marzano Simona	On the thermodynamics of folding of an i-motif DNA in solution under favorable conditions
P-068	Medved Natasa	Current Insights on how cytosine methylation impacts respective G-quadruplex structure in the promoter region of Bcl2
P-069	Mergny Jean-Louis	Quadruplexes are everywhere!
P-070	Miglietta Giulia	Micronuclei accumulation, global transcriptional profiles and chemokine activation by different G4 binders in cancer cells
P-071	Milani Francesca	Synthesis of new NDI multivalent ligands for multimeric G-quadruplexes
P-072	Mitteaux Jérémie	Identifying G-Quadruplex-DNA-Disrupting Small Molecules
P-073	Mittermaier Anthony	Folding complexity in G4-forming regions of DNA
P-074	Morales Juan Carlos	Glycosyl conjugation to G-quadruplex ligands as a strategy to improve their antitumor and antiparasitic efficacy
P-075	Napolitano Ettore	A fluorescent probe selectively lighting up upon binding with dimeric G-quadruplex forming aptamers
P-076	Nicoletto Giulia	DNA G-quadruplexes in X-linked Dystonia Parkinsonism disease
P-077	Novotný Aleš	Structural study of CGAG-rich sequences from the promoter of AUTS2 gene involved in neurodevelopment
P-078	Nowak-Karnowska Joanna	Interaction of fluorescent 9-methoxyluminarine with different G-quadruplex DNA
P-079	Obi Ikenna	Understanding the function a G-quadruplex structure located upstream of the alcohol dehydrogenase gene (adh1) in Schizosaccharomyces pombe
P-080	Palacký Jan	Structural properties of the human telomere DNA sequence monitored by Raman spectroscopy
P-081	Palmer Bradleigh	Defining the Role of 5'UTR G4s in Transcription and Translation
P-082	Paragi Gabor	Cation movements in modified quadruplexes
P-083	Pepe Alessia	The role of R-loops and G-quadruplexes in orchestrating genome instability mediated by pirydostatin (PDS) and camptothecin (CPT)
P-084	Pepe Simona	Structure-controlled viscosity and diffusivity in Guanosine hydrogels for drug delivery application
P-085	Perez-Soto Manuel	Structure-activity studies on naphthalene diimide DNA G-quadruplex ligands: antiproliferative and antiparasitic activity
P-086	Perrin Auriane	Photo-switchable control of G-quadruplex folding/unfolding by azobenzene derivatives
P-087	Petitjean Anne	A versatile coordination platform for G4 targeting
P-088	Petitjean Anne	Exploration of a family of highly stabilizing G4 binders based on a platinum coordination platform.

P-089	Piccirillo Priscilla	Elucidation of mechanisms underlying epigenetic and genome instability alterations in progeria-diseased mesenchymal stromal cells
P-090	Pipier Angélique	Click chemistry-based biomimetic ligands efficiently capture G-quadruplexes in vitro and help localize them at DNA damage sites in human cells
P-091	Platella Chiara	Targeting dimeric G-quadruplex models with natural compounds
P-092	Podbevšek Peter	Perturbations in G-quadruplex structure caused by oxidative lesions
P-093	Profant Vaclav	Strong Enhancement of Raman Optical Activity Signal During the Process of Guanosine-5'-monophosphate Self-assembly
P-094	Raguseo Federica	DNA secondary structure formation can trigger phase separation in repeat expansion associated with diseases
P-095	Raney Kevin	G-Quadruplex DNA, Stress Granules and Signaling
P-096	Renčiuk Daniel	Biophysical characterization of guanine quadruplexes in the RNA genome of tick borne encephalitis virus and elucidating their role in viral life cycle
P-097	Roxo Carolina	G4 Matters—the Influence of G-Quadruplex Structural Elements on the Antiproliferative Properties of G-Rich Oligonucleotides
P-098	Ryneš Jan	In-cell NMR spectroscopy of nucleic acids: Applications & Limitations
P-099	Salgado Gilmar	HnRNPA1 and G-quadruplexes regulatory role in KRAS expression
P-100	Sengupta Pallabi	I-Motif Structure as a Critical Determinant of G1/S Transition in Cell Cycle
P-101	Sgallová Ráchel	Structural basis of G-quadruplex biochemical specificity
P-102	Shukla Chinmayee	In vitro characterization of a G-quadruplex structure in lncRNA PVT1
P-103	Singh Surabhi	Interconnecting G-quadruplex structures using a vacant site
P-104	Sket Primoz	Towards G-wire design by understanding DNA self-assembly at molecular level
P-105	Spindler Lea	Structural Polymorphism of (G4C2) _n Repeats Associated with ALS and FTD
P-106	Stadlbauer Petr	Effect of Topology and Flanking Nucleotides on G-Quadruplex-Hemin DNAzyme Catalytic Activity Studied by Molecular Dynamics Simulations
P-107	Stipaničev Nikolina	Novel fluorescent porphyrin probes to target G-quadruplexes
P-108	Szeltner Zoltán	Biological approaches in the characterisation of telomer-like G4 structures with full or partial 5-hydroxy-2'-deoxyuridine substitution
P-109	Školáková Petra	Mechanism of cytosine iM formation at neutral pH
P-110	Šubert Denis	G4 as a target of architectural protein SAF-A
P-111	Tokan Viktor	G4 in noncanonical telomeres
P-112	Toplishek Maria	NMR study of secondary structures adopted by G-rich region from 5'-UTR of tyrosine kinase 2
P-113	Tosoni Beatrice	A new G-quadruplex binding NDI derivative highly active against Liposarcoma

P-114	Triveri Alice	Naphthalene Diimide ligands selectively recognize and stabilize the Interface Binding Pocket of Humane Telomeric G-quadruplexes
P-115	Vandeuren Adrianna	The identification of G-quadruplex inducing chromatin modifications
P-116	Vargiu Giulia	Involvement of the translesion synthesis DNA polymerase in the replication of G-quadruplexes in vivo
P-117	Vesenka James	Quadruplex DNA Auto-Orientation and Persistence length using AFM
P-118	Vesenka James	Localized Surface Plasmon Resonance (LSPR) Studies of G4 assembly
P-119	Víšková Pavlína	Cell cycle resolved in-cell NMR spectroscopy of nucleic acids
P-120	Volek Martin	Overlapping but distinct: a new model for G-quadruplex biochemical specificity
P-121	Woś Amadeusz	A systematic study of the interplay between loops length and topological preferences of G4
P-122	Yelisetty Venkata Suseela	Mitochondria-Specific Recognition of G-Quadruplexes by a Flavylium-Based Turn-On Near-Infrared Rotor Probe
P-123	Zhang Zhengyue	Guanine-Quadruplex Folding Pathways Explored by Steered Molecular Dynamics Simulations
P-124	Zlínková Vladimíra	"Clickable" ¹⁹ F probes for characterization of nucleic acid dynamic equilibria using NMR spectroscopy
P-125	Zok Tomasz	ONQUADRO: a database of experimentally determined 3D quadruplex structures
P-126	Lavigne Marc	Human DNA Topoisomerase 1 represses HIV-1 basal transcription through its interaction with a guanine quadruplex present in the viral promoter

