

Program for EMN Meeting on DNA and RNA 2015

Monday November 9

Room A

Opening Ceremony

Session: DNA-based Hybrid Materials Chair: Jussi Toppari

14:00-14:25 PM	A01: From guanosine supramolecular complexes to guanosine-based functional materials	Stefano Masiero Universit à di Bologna, Italy
14:25 -14:50 PM	A02: Bioanalytical applications of DNA based biosensors	Anton Ciucu University of Bucharest, Romania
14:50 -15:15 PM	A03: DNA conjugates with metallo-supramolecular polymer	Masayoshi Higuchi National Institute for Materials Science, Japan
15:15-15:40 PM	A04: Synthetic DNA Bases with Novel Hydrogen Bonding Arrays for the Fabrication of Bioactive Nanomaterials	Hicham Fenniri, Gino Karlo L. Delos Reyes Northeastern University, USA
15:40-16:00 PM	Session Break	
Session: DNA based Plasmonics Chair: Ilko Bald		
16:00-16:25 PM	A05: Electronic excitations in DNA	Dimitra Markovitsi CNRS, France
16:25-16:50 PM	A06: Plasmonic nanostructures based on DNA origami silhouettes	Jussi Toppari University of Jyv äskyl ä, Finland
16:50-17:15 PM	A07: Manipulating molecular fluorescence with DNA origami based optical antennas	Guillermo Acuna Technical University Braunschweig, Germany
18:00PM	Welcome Banquet	

Tuesday November 10**Room A****Session: Nanomedicine Chair: Young-Wan Kwon**

9:00-9:25 AM	A08: Nanoparticles that trap viral antigen or exosomes that can be used for delivery into cells	Fatah Kashanchi George Mason University, USA
9:25-9:50 AM	A09: Oligonucleotides and Nanostructures for Biomedical Applications	Alvaro Somoza IMDEA Nanociencia, Spain
9:50-10:15 AM	A10: Bio-element nanoparticles: towards RNA-based anti-cancer therapy	Robert Delong Kansas State University, USA
10:15-10:40 AM	A11: Hybrid Nucleoside-Lipids as novel materials for biomedical applications	Philippe Barthélémy Université de Bordeaux, France
10:40-11:00 AM	Session Break	
Session: General I Chair: Robert Delong		
11:00-11:25 AM	A12: Magnetic properties of the helical structure based compounds	Young-Wan Kwon Korea University, Korea
11:25-11:50 AM	A13: Photochemical properties on facially-stacked perylene diimides within DNA duplex	Tadao Takada University of Hyogo, Japan
11:50-12:15 AM	A14: Controllable restriction enzyme behaviors over two-dimensional DNA origami	Matteo Castronovo University of Udine, Italy
12:20 PM	Lunch Break	

Tuesday November 10**Room A****Session: General II Chair: Tadao Takada**

14:00-14:25 PM	A15: Detection of DNA Sequence Variation in a Hydrated Ionic Liquid	Naoki Sugimoto Konan University, Japan
14:25 -14:50 PM	A16: DNA and RNA in the Atomic Force Microscope and the Origins of Life between Mica Sheets	Helen Hansma University of California, USA
14:50 -15:15 PM	A17: Ultrafast interfacial dynamics of the hydrated DNA backbone	Torsten Siebert Max Born Institute, Germany
15:15-15:40 PM	A18: Radiation damage of DNA unraveled by molecular cluster studies	Jusuf Khreis Universit ä Innsbruck, Austria
15:40-16:00 PM	Session Break & Poster	
15:40-16:10 PM	Poster01: Utilizing Rosette Nanotubes for the Delivery of siRNA for Cancer Therapeutics	Gino Karlo L. Delos Reyes Northeastern University, USA
16:10-16:35 PM	A19: Artificial nucleosides and oligonucleotides. Biophysical and biological applications	Rachid Benhida University of Nice Sophia Antipolis, France
Session: Funtional DNA Nanostructures I Chair: Naoki Sugimoto		
16:35-17:00 PM	A20: Investigation of biomolecular processes using DNA origami nanostructures	Ilko Bald Universit ä Potsdam, Germany
17:00-17:25 PM	A21: Photonic DNA Computing Towards Functional Biomolecular Sensing	Yusuke Ogura Osaka University, Japan
17:25-17:50 PM	A22: DNA hydrogels for cell capturing	Meltem Avcı-Adalı University Hospital Tuebingen, Germany
18:00 PM	Dinner Social	

Wednesday November 11

Room A

Session: DNA Devices I Chair: Janez Plavec

9:00-9:25 AM	A24: DNA and PNA probes in electrochemical systems and organic transistors, for detection of DNA or other molecules	Benoit Piro University Paris Diderot, France
9:25-9:50 AM	A25: Structural dynamics of DNA-based devices	Victoria Birkedal Aarhus University, Danmark
9:50-10:15 AM	A26: Modelling mechanical properties of nucleic acid structural motifs	Filip Lankas University of Chemistry and Technology Prague, Czech Republic
10:15-10:40 AM	A27: Engineering nanopore and nanopore-DNA machines	Giovanni Maglia K.U.Leuven, Belgium
10:40-11:00 AM	Session Break	
Session: DNA Imaging Technique Chair: Benoit Piro		
11:00-11:25 AM	A28: Piezoelectricity in Deoxyribonucleic Acid Nucleobase Microcrystals via Piezoresponse Force Microscopy	Igor Bdikin University of Aveiro, Portugal
11:25-11:50 AM	A29: Molecular simulation of ssDNA interaction with carbon nanotubes	Simcha Srebnik Technion - Israel Institute of Technology, Israel
12:20 PM	Lunch Break	

Wednesday November 11

Room A

Session: DNA Devices II Chair: Victoria Birkedal

14:00-14:25 PM	A30: Structural studies of tetrahelical DNA by NMR and their dynamic transformations	Janez Plavec National Institute of Chemistry, Slovenia
14:25 -14:50 PM	A31: Nanofluidic strategies for studying biopolymers	Elena Angeli University of Genoa, Italy
14:50 -15:15 PM	A32: Optical/Microfluidic Approaches for the Interrogation of Long Genomic DNA Sequences	Tracy Melvin University of Southampton, UK
15:15 -15:40 PM	A33:Efficient Single Molecule DNA Trapping and Sensing at Femtomolar Concentrations	Kevin J. Freedman Imperial College London, UK
15:40-16:00 PM	Session Break	
Session: Funtional DNA Nanostructures II Chair: Yusuke Ogura		
16:00-16: 25PM	A34: DNA-controlled assembly and fusion of liposomes	Stefan Vogel University of Southern Denmark, Denmark
16:25-16:50 PM	A35: DNA origami nanopores for single molecule detection and beyond	Silvia M. Hernandez-Ainsa University of Cambridge, UK
16:50-17:15 PM	A36: DNA origami scaffolds for enzyme assembly lines with precise orientation	Eugen Stulz University of Southampton, UK
17:15-17:40 PM	A37: Rare-earth induced Conformation changes in branched DNA	Umakanta Subudhi Institute of Minerals & Materials Technology, India
18: 00PM	Dinner Social	