



Monday, 15 April

- 8:30am **Registration**
Welcome Desk
- 8:50am **Opening Session**
Auditorium
Chaired by: Prof. Philippe Barthelemy
- 9am **Plenary Session 1**
Auditorium
Chaired by: Dr. Eugen Stulz
- 9am **Exploring the structure and recognition of G-quadruplex in the B-MYB proto-oncogene promoter**
» [Dr. Carla Cruz](#)
- 9:40am **Molecular architectures and druggable space of nucleic acid targets**
» [Prof. Srivatsan Seergazhi Gopalan](#)
- 10:15am **Break**
Poster Area
- 10:45am **Plenary Session 2**
Auditorium
Chaired by: Dr. Eugen Stulz
- 10:45am **Singlet oxygen as a tool for suprabiomolecular ligations**
» [Prof. Annemieke Madder](#)
- 11:25am **Damage, repair and degradation of mitochondrial nucleic acids**
» [Dr. Carlo Vascotto](#)

12pm **Lunch Break**
Crous

1:30pm **Poster Session**
Poster Area

Hyaluronic acid coated pH responsive micelles supplement activity of a novel dual-active synthetic peptide (pepA) against tumor cells and HIV

» [Ms. Mandisa Gumedu](#), Dr. Andile Faya

Stimuli-Responsive G-Quadruplex Formation on a DNA-Origami Surface

» [Mrs. Kathrin Ludwigs](#), Prof. Guido Clever

Protein cages directed heterogeneous binary crystals

» [Dr. Yu Zhou](#), Dr. Ahmed Shaukat, Prof. Mauri Kostianen

Exploring Therapeutic Oligonucleotide Interactions with Calcium Phosphate: Insights for Bioactive Medical Devices

» Dr. Clementine Aubry, [Mr. Timothy Cheung](#), Prof. Christophe Drouet, Prof. Christel Combes, Prof. Tina Kauss, Prof. Philippe Barthelemy

Programmable RNA loading of extracellular vesicles using DNA mediated fusion

» [Ms. Nazmie Kalisi](#), Prof. Stefan Vogel, Dr. Mette Galsgaard Malle, Prof. Jørgen Kjems, Dr. Philipp Löffler, Dr. Ping Song, Dr. Yan Yan, Dr. Julián Valero

Development of innovative DNA aptamers selection against TSP-1 for Glioblastoma theranostic application

» [Ms. Anielle VILLERONCE](#), Ms. Emma Allard, Mr. Jean-Baptiste Charpenel, Dr. Thomas DAUBON, Dr. Jeanne Leblond Chain, [Dr. Laurent AZEMA](#)

DNA nanostructure based on a aptaswitch/aptakiss interaction

» [Mr. Cléo Chidaine](#), Dr. Jeanne Leblond Chain, Dr. Laurent Azéma



Continued from **Monday, 15 April**

Dual targeting of gastric cancer stem cells using bivalent aptamers

» [Mr. Gorann Lepied](#), Dr. Mengyuan Cao, Ms. Anissa Zaafour, Dr. Jeanne Leblond Chain, Prof. Christine Varon, Prof. Pierre Dubus

Aspects Biochimiques et Biophysiques de l'ADN G-quadruplex dans la Régulation du Promoteur de l'Oncogène KRAS.

» [Mrs. Zahraa Othman](#)

Nucleolipid Assisted Synthesis of Prebiotic Genetic Polymer

» [Mr. Sahil Mulewar](#), Dr. Bruno Alies, Prof. Philippe Barthélémy

VITAMIN B12- A DRUG DELIVERY VEHICLE INTO THE CELLS

» [Ms. Monica Fresta](#), Prof. Dorota Gryko

Targeting mucus hyperproduction in COPD using siRNA-loaded switchable lipid nanoparticles to silence SPDEF

» Ms. Aurore GUEDIN-BEAUREPAIRE, Dr. Thais Pivetta, [Mr. Kim-Nghi Hoang](#), [Ms. Eloïse LATOUILLE](#), Dr. Isabelle Dupin, Mrs. Élise Maurat, Dr. Jeanne Leblond Chain

2:30pm **Nanomedicine**

Auditorium

Chaired by: Prof. Anil Kumar Mishra

2:30pm **Modified Self-amplifying RNA is the Next RNA Therapeutic**

» [Prof. Mark Grinstaff](#)

2:47pm **Supramolecular Mechanochemistry for the Activation of Drugs, Proteins and Genes**

» [Prof. Andreas Herrmann](#)

3:04pm **Permeation studies on new nanovesicles for drug delivery with multiphoton microscopy**

» [Mrs. Ilaria Ferraboschi](#), Mrs. Marta Alcaina-Hernando, Dr. Nora Ventosa, Dr. Alba Cordoba, Prof. Silvia Pescina, Prof. Cristina Sissa

3:21pm **Targeting the IRES structure of mRNA for modulating gene translation**

» [Mr. Albert Ferriol Monjo](#), Dr. Eugen Stulz, Dr. Tilman Sanchez-Elsner, Ms. Tina-Thien Ho, Dr. Gabriela Barbeta, Dr. Elena Vladimirovna

2:30pm **Bioorganic chemistry**

Salle Nord

Chaired by: Mr. Krishna Ganesh

2:30pm **Porphyrin Stabilised G-Quadruplexes**

» [Dr. Chloe Howells](#), Dr. Daniel Singleton, Dr. Teresa Lauria, Dr. Eugen Stulz

2:47pm **Using liposomes as nanoreactors with DNA-mediated fusion**

» [Dr. Nikolaj Risgaard](#), Prof. Stefan Vogel, Dr. Xinwei Tian, Dr. Philipp Löffler

3:04pm **From a synthetic methodology towards a bioconjugation tool: 5HP2Os as next-generation maleimide alternatives**

» [Mr. Jan H. Meffert](#), Prof. Annemieke Madder

3:21pm **Amphiphilic Dynamic Covalent Polymer Vectors for siRNA Delivery**

» [Mr. José García Coll](#), Dr. Nadir Bettache, Dr. Sébastien Ulrich

3:55pm **Break**

Poster Area

4:30pm **Biomaterials, Soft matter - I**

Auditorium

Chaired by: Prof. Srivatsan Seergazhi Gopalan

4:30pm **Hybrid Peptide-Agarose Hydrogels for 3D Bioassays**

» [Dr. Greta Bergamaschi](#), Dr. Alessandro Gori, Mr. Roberto Frigerio, Dr. Andrea Pizzi, Mr. Angelo Musicò, Dr. Marina Cretich



Continued from **Monday, 15 April**

- 4:47pm **Biomimetic (multi)compartmental structures and functions through self-assembly, clustering and reorganisation processes**
» [Dr. Dietmar Appelhans](#)
- 5:04pm **Dynamic Chiral Silver Nanoclusters Stabilized by DNA**
» [Dr. Manuel Nuñez-Martinez](#), [Dr. Krishnadas Kumaranchira Ramankutty](#), [Dr. Ivan Rivilla](#), [Dr. Amaia Larumbe](#), [Dr. Javier Calvo](#), [Prof. Luis Liz-Marzán](#), [Prof. Aitziber L. Cortajarena](#)
- 4:30pm **Supramolecular chemistry - I**
Salle Nord
Chaired by: [Prof. Efie Kokkoli](#)
- 4:30pm **Lipid assemblies control of G4-topology**
» [Ms. Brune Vialet](#), [Dr. Nitin Dattatraya Bansode](#), [Dr. Arnaud Gissot](#), [Prof. Philippe Barthélémy](#)
- 4:47pm **Shaping and Patterning Supramolecular Multi-Gelator Objects by Diffusion-Adhesion Assembly**
» [Ms. Chayanan Tangsombun](#), [Prof. David K. Smith](#)
- 5:04pm **Protein-inspired ligand functionalities incorporated into DNA G-Quadruplexes**
» [Dr. Jennifer Bremer](#), [Prof. Guido Clever](#)

Tuesday, 16 April

- 8:30am **Registration**
Welcome Desk
- 9am **Plenary Session 3**
Auditorium
Chaired by: [Prof. Stefan Vogel](#)

- 9am **Directed Molecular Evolution at Ultrahigh Throughput and via Machine Learning**
» [Mr. Florian Hollfelder](#)
- 9:40am **Vitamin B12 as a drug delivery vehicle**
» [Prof. Dorota Gryko](#)
- 10:15am **Break**
Poster Area
- 10:45am **Plenary Session 4**
Auditorium
Chaired by: [Dr. Valérie Desvergnès](#)
- 10:45am **To Synthesize Theragnostic Probes and its Target Delivery with Enhanced Affinity**
» [Prof. Anil Kumar Mishra](#)
- 11:25am **Self-assembly of nucleic acid nanotubes for selective targeting of different cancers**
» [Prof. Efie Kokkoli](#)
- 12pm **Lunch Break**
Crous
- 1:30pm **Poster Session**
Poster Area
- Hyaluronic acid coated pH responsive micelles supplement activity of a novel dual-active synthetic peptide (pepA) against tumor cells and HIV**
» [Ms. Mandisa Gumedé](#), [Dr. Andile Faya](#)
- Stimuli-Responsive G-Quadruplex Formation on a DNA-Origami Surface**
» [Mrs. Kathrin Ludwigs](#), [Prof. Guido Clever](#)



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2:30pm

Bioconjugates self-assembly

Auditorium

Chaired by: Prof. Annemieke Madder

2:30pm

Lipid Stabilized G-Quadruplex Decoys for Anticancer Therapeutic Application

» [Ms. Faith Kivunga](#), Mr. Jules Garcia, Ms. Julie Lagouarde, Ms. Patricia Korczack, Ms. Aurore GUEDIN-BEAUREPAIRE, Dr. Virginie Baylot, Ms. Brune Vialet, Prof. Tina Kauss, Prof. Philippe Barthélémy

2:47pm

Supramolecular assembly of chemically modified Lipid Oligonucleotide for antibiotic resistance application

» [Mr. Henri Barry](#), Mr. philippe-andre cleret, Ms. Lisa Scillia, Prof. Philippe Barthélémy, Prof. Corinne Arpin, Prof. Tina Kauss

3:04pm

Thermoresponsive lipo-polypeptide towards controlled aggregation on liposome surface

» [Ms. Rosanna Le Scouarnec](#), Mr. Emmanuel Ibarboure Ibarboure, Prof. Sebastien Lecommandoux, Dr. Colin Bonduelle, Dr. Jeanne Leblond Chain

3:21pm

Selective tumour cell killing with novel modular antibody-conjugate using self-assembling DNA nanostructures

» [Ms. Tina-Thien Ho](#), Mrs. Anna H Turaj, Dr. Teresa Lauria, Mr. Albert Ferriol Monjo, Prof. Sean H Lim, Dr. Eugen Stulz

3:38pm

Synthesis and Evaluation of Non-benzenoid aromatic scaffold comprising Nucleic Acid and Peptides

» [Dr. Nagendra K Sharma](#)

2:30pm

Biomaterials, Soft matter) - II

Salle Nord

Chaired by: Prof. Roger Stromberg



Continued from **Tuesday, 16 April**

- 2:30pm **Chaperon-inspired peptide nanofibers interrupt Cu (I) homeostasis in cancer cells**
» [Dr. Jeena Thekkeyil](#)
- 2:47pm **Designing carbohydrate supramolecular hydrogels for 3D cell culture. From sacrificial to long lasting. From disordered to ordered.**
» [Dr. Juliette Fitremann](#), Ms. Nadia Kasmi, Mr. Mickael Chabbert, Ms. Faniry Andriamizeza, Ms. Eve Pitot, Ms. Laetitia Pieruccioni, Ms. Isabelle Fourqueaux, Dr. Laure Gibot
- 3:04pm **Utilizing Deep Learning Algorithms for Automated Identification and Measurement of Target Molecules From Electrochemical Biosensors †**
» [Mrs. Fatemeh Esmaeili](#), Dr. Erica Cassie, Dr. Hong Phan T. Nguyen, Prof. Natalie O. V. Plank, Prof. Charles P. Unsworth, Prof. Alan Wang
- 3:21pm **Optical spectroscopy as a tool for supramolecular chemistry**
» [Prof. Cristina Sissa](#), Dr. Andrea Delledonne, Mrs. Iliaria Ferraboschi
- 3:38pm **Investigating the Effectiveness of CDK 4/6 Inhibitor loaded 4-Carboxy Phenyl Boronic acid Conjugated pH Sensitive Chitosan Lecithin Na-noparticles in the management of Breast Cancer**
» [Mr. naveen rajana](#)
- 3:55pm **Nucleolipids as a matrix for 3D cell culture**
» [Dr. Bruno Alies](#), Dr. Tarek Sayde, Dr. Omar El Hamoui, Dr. Gaëlle Bégaud, Dr. Sabrina Lacomme, Prof. Karen Gaudin, Prof. Gaëtane Lepes, Prof. Philippe Barthélémy, Prof. Serge Battu
- 3:55pm **Break**
Poster Area
- 4:10pm **Group Picture**
Auditorium

- 4:20pm **Break**
Poster Area
- 4:40pm **Supramolecular chemistry - II**
Auditorium
Chaired by: Dr. Ling Peng

- 4:40pm **Potato virus A particles, a novel biomaterial for self-assembled nanopatterns for templating silver nanoparticles on substrate surfaces**
» [Dr. Swarnalok De](#), Mr. Hoang Nguyen, Dr. Fangxin Zou, Dr. Fevzihan Basarir, Ms. Maryam Mousavi, Dr. Ville Liljeström, Prof. Kristiina Mäkinen, Prof. Mauri Kostianen, Prof. Jaana Vapaavuori

- 4:57pm **Light-triggered stapling of biologically relevant DNA tetraplexes results in increased topological, thermodynamic and metabolic stability.**
» [Mr. Jack Barr](#), Dr. Enrico Cadoni, Ms. Sofie Schellinck, Prof. Emiliano Laudadio, Prof. Jose Martins, Prof. Annemieke Madder

- 5:14pm **Supramolecular dendrimer-mediated delivery of RNA therapeutics**
» [Ms. Jing Wu](#), Ms. Wenjun Lan, Dr. Juan Iovanna, Dr. Ling Peng

- 8pm **Gala Dinner**
Sicambre restaurant boat

Wednesday, 17 April

- 8:30am **Registration**
Welcome Desk
- 9am **Plenary Session 5**
Auditorium
Chaired by: Prof. Mark Grinstaff



Continued from **Wednesday, 17 April**

- 9am **Artificial PNAbased RNases**
» [Prof. Roger Stromberg](#)
- 9:40am **Modular and adaptive self-assembling supramolecular dendrimers for biomedical applications**
» [Dr. Ling Peng](#)
- 10:15am **Break**
Poster Area
- 10:45am **Plenary Session 6**
Auditorium
Chaired by: Prof. Philippe Barthelemy
- 10:45am **Peptide Nucleic Acids (PNA 2.00): 'JANUS' PNAs with non-identical faces for programmable biomimetic supramolecular assemblies**
» [Mr. Krishna Ganesh](#)
- 11:25am **Solving RNA delivery by leveraging the body's evolved RNA transport pathways**
» [Dr. Alice Ghidini](#)
- 12pm **Lunch Break**
Crous
- 1:30pm **Drug Delivery**
Auditorium
Chaired by: Prof. Edvard Smith
- 1:30pm **Exploring the stability of RNA-based delivery scaffolds in diverse biological matrices: methodology and implications for platform development**
» [Ms. Laura Reyes Fraile](#), Dr. Alice Ghidini, Dr. Piotr Klimkowski, Dr. Aurélie Lacroix, Dr. James Rushworth, Dr. Elena Sanna, Dr. Eugen Stulz, Dr. George Foot, Dr. Anna Perdrix

- 1:47pm **Study of Nanovectors for lysosome-based therapeutic strategies against neurodegenerative diseases**
» [Mr. Rémi Kinet](#), Ms. Sarah Nieto, Dr. Angela Mutschler, Ms. Lea Mulot, Dr. Alexandra Gaubert, Prof. Philippe Barthélémy, Prof. Sebastien Lecommandoux, Dr. Benjamin Dehay
- 2:05pm **Plenary Session 7**
Auditorium
Chaired by: Dr. Eugen Stulz
- 2:05pm **Targeting Genomic DNA with Oligonucleotides**
» [Prof. Edvard Smith](#)
- 2:40pm **Closing**
Auditorium
Chaired by: Prof. Philippe Barthelemy