

Biotech France 2019 Conference Program

June 26, 2019		
09:00 - 17:00	Registration	Registration Area

June 26, 2019		
Biotech / Nanotech Plenary session I		
Conference Room Molière		
Session's Chairs: Prof. Jacques Jupille, Institut des Nanosciences de Paris, France Prof. James M Hill, University of South Australia, Australia		
11:00 - 11:30	Geometry, construction and modelling for carbon nanotori P.Sarapat, J.M. Hill and D.Baowan	Prof. James M Hill, University of South Australia, Australia
11:30 - 12:00	Multidimensionality of plasmonic colors. Application to image multiplexing N.Destouches	Prof. Nathalie Destouches, University of Saint-Etienne, France
12:00-12:30	Building on Biomimetics: novel medical applications built from nanostructured biotechnologies D. Martin	Prof. Donald Martin, Grenoble University, France
12:00 - 14:00	Lunch Break	Foyer Debussy

June 26, 2019		
Biotech - Session II: Biotechnology and Bioprocess		
Conference Room 5		
Session's Chairs: Prof. Margit Winkler, Austrian Center of Industrial Biotechnology, Austria . Dr. Agnieszka Saeid, Wroclaw University of Science and Technology, Wrocław, Poland		
14:00 -14:30	Electroextraction from walled species: bacteria, yeast, microalgae J.Teissié	Prof. Justin Teissié, IPBS CNRS and Toulouse University, France
14:30- 15:00	Harnessing carboxylate reductases to valorize carboxylates B.Grill, H.Schwab, M.Glänzer, G.Steinkellner, G.A. Strohmeier, U.Pogorevčnik, K.Reicher, K.Gruber, K. Donsbach and M. Winkler	Prof. Margit Winkler, Austrian Center of Industrial Biotechnology, Austria.
15:00 -15:30	Seaweed based plant & soil biostimulant as tools for agroecology practices B. Daridon	Dr. Bruno Daridon, Olmix Group, France
15:30-15:45	Decontamination of water containing micropollutants by laccase immobilized in silica monoliths W. Sebai, S. Ahmad, A. Galarneau, N. Brun, M-P. Belleville and J. Sanchez-Marcano	Mr. Wassim Sebai, University of Montpellier, France.
15:45-16:00	Steering waste management and industrial sidestreams valorization with edible filamentous fungi J.A. Ferreira and M.J. Taherzadeh	Dr. Jorge Ferreira, University of Borås, Sweden
16:00 -16:30	Coffee Break / Posters Session I	Salle Menand
16:30 -17:00	Food fortification by application of agricultural biotechnology A. Saeid	Dr. Agnieszka Saeid, Wroclaw University of Science and Technology, Wrocław, Poland
17:00 -17:15	Mycotoxins bio-sensing platform based on optical planar waveguide and Specific Aptamers A. M. Al-Jawdah, A. Nabok, Radhyah Jarrah, A. Holloway, A. Tsargorodska, E. Takacs and A. Szekacs	Mr. Ali Al-Jawdah, Sheffield Hallam University, UK

June 27, 2019		
Nanotech / Biotech Joint Plenary session II		
Conference Room Molière		
Session's Chairs:		
Prof. Marylène Viana, University of Limoges, France		
Prof. Tomasz Panczyk, Jerzy Haber Institute of Catalysis and Surface Chemistry, Poland		
Dr. Laurent Cognet, CNRS/ LP2N - Institut d'Optique, University of Bordeaux, France		
09:00 - 09:30	Paradigms for the Interaction of Nanoscale Objects with Living Organisms K.Dawson	Prof. Kenneth A. Dawson , University College Dublin, Ireland
09:30 - 10:00	Safety testing of manufactured nanomaterials P.Kearns	Dr. Peter Kearns , OECD Environment, Health and Safety Division, France
10:00 - 10:30	Growth inhibition of Staphylococcus Aureus (Staph) and Escherichia coli (E. coli) by a combined treatment of ZnO nanoparticles and femtosecond laser light C. Alvarez, A. Hernandez, N. Cuando and G. Aguilar	Prof. Guillermo Aguilar , University of California Riverside, USA
10:30 - 11:00	Coffee Break / Posters Session II/ Exhibition	Salle Menand
11:00 - 11:30	Strategies of biological similarity to ensure safe use of conventional + novel nanomaterials W. Wohlleben	Dr. Wendel Wohlleben , BASF SE, Germany
11:30 - 12:00	Nanocrystals for Medicinal Applications L. Mondragón , E. Casals, L. Russo, A. García-Sanz, J. Piella, I. Abasolo, N. Bastús and V. Puntès	Dr. Laura Mondragón Martínez , Catalan Institute of Nanoscience and Nanotechnology, Spain
12:30 - 14:00	Lunch Break/ Posters Session II / Exhibition	Foyer Debussy

June 27, 2019, 13:45 - 13:55 – at the registration desk
Conference Group Photo
All conference participants are invited to be present for the Conference Group Photo

June 27, 2019		
Nanotech / Biotech - Session II.A: Nanotechnology for life science		
Conference Room Molière		
Session's Chairs:		
Prof. Chunlei Wang, Florida International University, USA		
Prof. Soam Prakash, Deemed University- Agra, India		
Dr. Wendel Wohlleben, BASF SE, Germany		
14:00 - 14:30	Single-molecule Protein Analysis Using Nanopores X.Huang , W.Zhang and S.Liang	Prof. Xiaohua Huang , University of California, USA
14:30 - 15:00	Future of nanoparticles research in mosquito control with lasers and consciousness S. Prakash	Prof. Soam Prakash , Deemed University- Agra, India
15:00 - 15:15	New surfactants in wet ball milling and an innovative embedding of Nanocrystals into a granulate matrix M. Rischer	Dr. Matthias Rischer , Losan Pharma GmbH, Germany
15:15 - 15:30	Feasibility of Ultraaccurate Nanopore DNA Sequencing W. Zhang and X. Huang	Mr. Wenxu Zhang , University of California, USA
15:30 - 15:45	The mechanical properties of electrospun fibrinogen,blended fi-brinogen:PCL and fibrinogen:collagen nanofibers M. Guthold , C. C. Helms, S. R. Baker, J. Sigley, E. Voyles, S. Banerjee, J. Sharpe, Z. Zhang, J. Diaz-Silveira and K. Bonin	Prof. Martin Guthold , Wake Forest University, USA
15:45 - 16:00	Charged polysaccharide multilayers as protein-repellent coatings for medical implant materials M. Bračić , T.Mohan ¹ ,R.Kargl and K. Stana-Kleinschek	Dr. Matej Bracic , University of Maribor, Slovenia.
16:00 - 16:30	Coffee Break / Posters Session II/ Exhibition	Salle Menand

16:30 - 16:45	Graphene-Based Coatings for Inhibiting Bacterial Growth in Hospital Environment I. Bellagamba , H.C. Bidsorkhi, E. Bruni, D. Cavallini, M. Saccucci and A. Polimeni, D. Uccelletti and M.S. Sarto	Ms. Irene Bellagamba , University of Rome La Sapienza, Italy
16:45 - 17:00	Interaction of Telomeric DNA i-motif with Carbon Nanotubes. A Molecular Dynamics Analysis of the Structure and Stability T. Panczyk , P. Wolski and P. Wojton	Prof. Tomasz Panczyk , Jerzy Haber Institute of Catalysis and Surface Chemistry, Poland

June 27, 2019		
Nanotech / Biotech - Session II.B: Nanotechnology for drug and gene delivery		
Conference Room 10		
Session's Chairs:		
Dr. Laura M. Martínez, Catalan Institute of Nanoscience and Nanotechnology, Spain		
Prof. Piersandro Pallavicini, University of Pavia, Italy		
14:00 - 14:30	Incorporation in Titanate nanotubes as a way to improve compression properties of active pharmaceutical ingredients B. Sipos, K. Pintye-Hódi, G. Regdon Jr., Z. Kónya, M. Viana and T. Sovány	Prof. Marylène Viana , University of Limoges, France
14:30 - 15:00	Nanoinks for photothermally responsive inkjet-printed patterns: from hyperthermia and drug release to encrypted writing P. Pallavicini , L. De Vita, M. Borzenkov, G. Chirico, P. Ihalainen and J. Sarfraz	Prof. Piersandro Pallavicini , University of Pavia, Italy
15:00 - 15:30	Graphene quantum dots as drug delivery systems for cancer therapy R. Romeo, D. Iannazzo, A. Pistone, C. Celesti, S. V. Giofré, G. Visalli and A. Di Pietro	Prof. Roberto Romeo , University of Messina, Italy
15:30 - 15:45	Protein-nanoparticle interactions: effect of surface functionalization and pH of the medium B. Meesaragandla , I. Garcia, L.M. Liz-Marzán and M. Delcea	Dr. Brahmaiah Meesaragandla , University of Greifswald, Germany
15:45 - 16:00	Protein-nanoparticles interactions by microfluidic: A novel tool for biomedical applications N. Orellana, S. Torres, S. Palma, M. L. Cordero, M. Kogan and N. Hassan	Dr. Natalia Hassan , Metropolitan Technology University, Chile
16:00-16:30	Coffee Break / Posters Session II / Exhibition	Salle Menand
16:30 - 16:45	Targeting of Nano-Carriers in Atherosclerotic Arterial Bifurcation Sites M. Khoury , M. Epshtein, H. Zukerman and N. Korin	Mrs. Maria Khoury , Technion - IIT, Israel
16:45 - 17:00	Buccal permeating lipid-core micelles loaded on mucoadhesive films as a novel drug delivery system for biologic drugs W-H. Chou , A. Galaz, M.O. Jara and J.O. Morales	Mr. Wai-Houng Chou , University of Chile, Chile
17:00 - 17:15	Hybrid nanostructure lipid capsules: A promising nanovehicles to improve anticancer activity of curcumin S.K. Yadava , V. Remya and J. Giri	Mr. Sunil Kumar Yadava , Indian Institute of Technology-Hyderabad, India
17:15 - 17:30	A Novel Model based on Sphere-shaped Coulomb Explosion for the Study of Nanoparticles of Gold in the Treatment of Brain Tumor Z. Hasan , S. Abbas, M.A. Khan, K. Iqbal, Z. Ahmad and M.M. Bukhari	Mr. Zahid Hasan , National College of Business Administration and Economics, Pakistan

June 27, 2019

Nanotech / Biotech - Session II.C: Nanomedicine- Bioimaging/ Diagnostics

Conference Room 12

Session's Chairs:

Prof. Ricardas Rotomskis, Vilnius university, Lithuania

Prof. Makarand Paranjape, Georgetown University, Washington, USA

Dr. Imran Avci, VU University of Amsterdam, The Netherlands

14:00 - 14:30	Nanoscale exploration of live brain tissue by single nanoparticle tracking and super-resolution imaging L. Cognet	Dr. Laurent Cognet , CNRS/ LP2N - Institut d'Optique, University of Bordeaux, France
14:30 - 15:00	Nanoparticles for multimodal imaging and phototherapy of cancer: towards theranostics R. Rotomskis	Prof. Ricardas Rotomskis , Vilnius university, Lithuania
15:00 - 15:30	Integrated optics devices in spectroscopy, biosensing and medical applications I. Avci	Dr. Imran Avci , VU University of Amsterdam, The Netherlands
15:30 - 15:45	Tracking stem cells and macrophages with gold and iron oxide nanoparticles—the choice of the best suited particle X. Sun , N. Feliu, W.J. Parak	Mr. Xing Sun , University of Hamburg, Hamburg
15:45 - 16:00	Mesoporous Nickel Vanadate-Graphene Nanocomposite Integrated Microfluidic Biochip for Biosensing Application N.Singh , P. Rai, A. Sharma, B. D. Malhotra and R. John	Mr. Nawab Singh , Indian Institute of Technology-Hyderabad, India.
16:00 - 16:30	Coffee Break / Posters Session II / Exhibition	Salle Menand
16:30 - 16:45	Enhanced Coupling Effect of Gold Nanoislands and Gold Nano-particles for Optical Biochemical Sensing Y.K. Chan and C.M.L. Wu	Prof. Chi-Man Wu , City University of Hong Kong, Hong Kong
16:45 - 17:00	Construction of Functional Conical Nanopores in view of sensing applications N. Arroyo and F. Picaud	Mr. Nicolas Arroyo , Bourgogne-Franche-Comté University, France
17:00 - 17:15	Novel biosensing assay based on the integration of low refractive index resonant waveguide grating and upconversion nanoparticles Y.-L. Gao, J.-H. Lyu, D.-T. Vu, M. W.-Y. Chan, L.-K. Chau, H.-C. Kan, J.-Y. Lin and C.-C. Hsu	Prof. Chia Chen Hsu , National Chung Cheng University, Taiwan
17:15 - 17:30	High-sensitivity wide-field fluorescent microscopy based on up-conversion nanoparticles and resonant waveguide grating T.-Y. Liu, J.-H. Lyu, M. W.-Y. Chan, C.-C. Hsu, H.-C. Kan and J.-Y. Lin	Prof. Jiunn-Yuan Lin , National Chung Cheng University, Taiwan
17:30 - 17:45	High-sensitivity detection of mesothelin by surface plasmon resonance E.F.Macedo and D. B. Tada	Mr. Erenildo F.Macedo , Federal University of São Paulo, Brazil
17:45 - 18:00	Fast Detection of Bacterial Contamination in Fresh Produce Using Surface Modified Magnetic Nanoparticles and PCR H.M.E. Azzazy , F. Farouk, S. Essam, A. Abdel Moteleb, R. El Shimy and W. Fritzsche	Prof. Hassan Azzazy , American University in Cairo, Egypt

Posters Session I: June 26, 2019
Biotech Posters Session I

Exhibition and Posters Hall - Salle Menand

N.	Title	Author/Affiliation/Country
25	Towards a new panel of nitrile hydratases B. Grill, H. Schwab, M. Glänzer, G. Steinkellner, G. A. Strohmeier, U. Pogorevčnik, K. Reicher, K. Gruber, K. Donsbach and M. Winkler	Prof. Margit Winkler , Austrian Center of Industrial Biotechnology, Austria.
26	Directed Evolution of Wild Yeast for the New Zealand Craft Beer Industry. M. Penot , J. Clemens, S. Hermann-Le Denmat and A. Ganley	Mr. Mathias Penot , École normale supérieure, France
27	Anthelmintics contaminates grazing lands – are they toxic for fodder plants? L. Langhansová , L. Stuchlíková Raisová, A. Novaková, R. Podlipná and L. Skálová	Dr. Lenka Langhansova , Institute of Experimental Botany, Czech Republic
28	Pesticides And Trees of Riparian Corridors: Biotransformation of Tebuconazole, Metazachlor And Chlorpyrifos R. Podlipná , T. Zunová and P. Maršík	Dr. Radka Podlipná , Institute of Experimental Botany, Czech Republic
29	Electrochemical biosensors toward non-invasive diagnostics and prognostics J. Razumiene , V. Gureviciene, I. Sakinyte, A. Laurynenas, A. Gulla and K. Strupas	Dr. Julija Razumiene , Vilnius University, Lithuania

Posters Session II: June 27, 2019
NanoBioMedecine / Nanosafety

Exhibition and Posters Hall - Salle Menand

1	Interaction of iron oxide nanoparticles with transferrin: effect on stability and iron uptake U. Martens , A. Abou-Hassan and M. Delcea	Dr. Ulrike Martens , University of Greifswald, Germany
2	Live Animal Imaging of a Labeled Chlamydia Recombinant Protein Encapsulated in PLGA Nanoparticles V.A. Dennis , R. Sahu and S. R. Singh	Dr. Vida Dennis , Alabama State University, USA
3	Study on phase transformation pathways of iron sulfide minerals Y-H. Chen and D-T. Jhan	Prof. Yen-Hua Chen , National Cheng Kung University, Taiwan
4	Membrane affinity of fluorescently labelled and drug-conjugated peptides E. Pári , É. Kiss, G. Gyulai, K. Horváti and Sz. Bősze	Ms. Edit Pári , Eötvös Loránd University, Hungary
5	Optical Sensing by Plasmon Resonance Effects of Gold Nanoparticles G. Joon Lee , M.Kang, E. H. Choi and Y. Kim	Prof. Geon Joon Lee , Kwangwoon University, Rep. of Korea
6	Improvement of photoactivity of modified-chlorin photosensitizer by its conjugation to metallic and bimetallic nanoparticles J. A. Magalhães , B. C. Nunes, A. U. Fernandes, D.C. Arruda, E. R. Camargo and D. B. Tada	Ms. Jéssica Magalhães , Federal University of São Paulo, Brazil
7	Target Catalyzed Toehold-mediated DNA Strand Displacement Events for Universal MicroRNA Detection Y. Park , C. Y. Lee, S. Kang, H. Kim, K.S. Park and H. G. Park	Ms. Yeonkyung Park , KAIST-Daejeon, Rep. of Korea
8	Target-responsive DNA polymerase activity based fluorescence aptasensor for protein detection Y. Jung , C. Y. Lee, K. S. Park and H. G. Park	Ms. Yujin Jung , KAIST-Daejeon, Rep. of Korea
9	Effect of Nano-Scale and Micro-Scale Zero-Valent Iron on Inferring Metabolic Pathways in Freshwater Bacteria N. H.A. Nguyen , R. Špánek and A. Ševců	Dr. Nhung Nguyen , Technical University of Liberec, Czech Republic

10	Food Matrices-ZnO Nanoparticle Interactions and their Effects on Biological Systems H-R. Jin , Y.Jin and S-J. Choi	Ms. Hye-Rin Jin , Seoul Women's University, Rep. of Korea
11	Detection of Zinc Oxide Nanoparticles in Food Matrices Using Cloud Point Extraction Approach Y-R. Jeon and S-J. Choi	Ms. Ye-Rin Jeon , Seoul Women's University, Rep. of Korea
12	Safety Evaluation of Food Additives Titanium Dioxide and its Quantitative Analysis in Food Matrices J-S. Hwang and S-J. Choi	Ms. Ji-Soo Hwang , Seoul Women's University, Rep. of Korea
13	Size Distribution, Cytotoxicity of Food Additive Silicon Dioxide and Establishment of their Quantitative Analytical Methods in Commercial Food Products Y-H. Kim and S-J. Choi	Ms. Ye-Hyun Kim , Seoul Women's University, Rep. of Korea
14	The effect of novel silver alloys nanoparticles on soil bacteria K. Hrnčířová , N. A.H. Nguyen and A. Ševců	Mrs. Kateřina Hrnčířová , Technical University of Liberec, Czech Republic
15	Analysis of oxidative stress biomarkers for estimation of nZVI ecotoxicity toward various organisms J. Semerád, M.Moeder, J. Filip, M. Pivokonsky and T. Cajthaml	Prof. Tomas Cajthaml , Institute of Microbiology CAS, Czech Republic
16	Effect of gold nanoparticles on virus infection in a respiratory cell model M. Marchetti , B. De Berardis and F. Superti	Dr. Magda Marchetti , National Centre for Innovative Technologies in Public Health, Italy
17	Characterization of nano scale zero valent iron (nZVI) in different aqueous media C.S.Y.Yeap , N.H.A. Nguyen and A. Sevcu	Ms. Cheryl S.Y. Yeap , Technical University of Liberec, Czech Republic
18	Biodegradable and Biocompatible Polymeric Nanoparticles from fruit & vegetables wastes and their biomedical applications S.S. Metwally and W. Mamdouh	Ms. Sherine S. Metwally , The American University in Cairo, Egypt
19	Highly Sensitive Lactate Sensors Based on Carbon MEMS (CMEMS) S. Forouzanfar, F. Alam, N. Pala and C. Wang	Prof. Chunlei Wang , Florida International University, USA
20	Enhanced light absorption in porous silicon with nanocrystalline TiO ₂ deposited by metal-organic chemical vapor deposition (MOCVD) D. Hocine , S. Oussidhoum, M. Bensidhoum, D. Chaumont, E. Bourennane, A. Moussi, E. Lesniewska and N. Geoffroy	Mrs. Dalila Hocine , Mouloud Mammeri University, Algeria