

Biotech France 2017 Conference Preliminary Program

June 27th, 2017

14:00-18:00

Registration / Welcoming Cocktail Reception

Registration Area

June 28th, 2017

Biotech Session I: Biochemistry/ Biomolecular Engineering

Conference Room 911

09:00-12:00

Conference Registration

Session's Chairs:

Prof. Jeroen Hugenholtz, Wageningen Food & Biobased Research, The Netherlands and Prof. Gurumayum Jitendra Sharma, Manipur University, India

11:00-11:45

Designing Membrane-Active Nanoparticles: What are the Control Parameters?

Dr. Vladimir Baulin,
Universitat Rovira i Virgili,
Spain

11:45-12:00

Establishing Thraustochytrids as a Biotechnology Platform
D. Woodhall, A. Merckx-Jacques, J. Benjamin, D. Muise, H. Rasmussen, K. Tanner, H. Kottwitz, M. Scaife and R. Armenta

Dr. David Woodhall, Mara
Renewables Corporation,
Canada

12:00-12:15

Thiosemicarbazones as Novel Tyrosinase Inhibitors
K. Haldys, W. Goldeman and R. Latajka

Mrs. Katarzyna Haldys,
Wroclaw University of
Science and Technology,
Poland

12:15-12:30

Antibodies against difficult to express membrane proteins
Y. Bisharyan

Dr. Yelena Bisharyan,
TetraGenetics, USA

12:30-12:45

MonoPEGylated Human Arginase I for the Treatment of Cancers
S. F. Chung, C. F. Kim, Y. C. Leung and **W. H. Lo**

Dr. Wai-hung Lo, The Hong
Kong Polytechnic University,
Hong Kong

12:30-14:00

Lunch Break/ Exhibition/ Posters session I

Biotech Session II: Bioprocess / Biomedical/ Food Engineering

Session's Chairs:

Dr. Vladimir Baulin, Universitat Rovira i Virgili, Spain
Dr. David Woodhall, Mara Renewables Corporation, Canada
Dr. Wai-hung Lo, The Hong Kong Polytechnic University, Hong Kong

14:00-14:30

Microbial production of high-value chemicals such as medium- to long-chain fatty acid and alcohols from biobased waste streams
J. Hugenholtz, J. van Haveren, R. Blaauw and A. Lopez Contreras

Prof. Jeroen Hugenholtz,
Wageningen Food &
Biobased Research, The
Netherlands

14:30-15:00

Functional derivatized and bio-encapsulated proteins: new strategies for biomaterial preparation and structural characterization
T. Martelli, L. Cerofolini, T. Kozyreva, S. Giuntini, A. Louka, E. Ravera, M. Fragai and C. Luchinat

Dr. Tommaso Martelli,
Giotto Biotech srl, Italy

15:00-15:15

Antioxidant and cytotoxic properties of non-conventional food plant, *Parkia timoriana* (DC.) Merr.
G. J. Sharma

Prof. Gurumayum Jitendra Sharma, Manipur University,
India

15:15-15:30

Changes in lipid and fatty acids composition in wine yeasts by different temperatures
I. Kolouchová, O. Mařátková and T. Řezanka

Dr. Irena Kolouchová,
University of Chemistry and
Technology Prague, Czech
Republic

15:30-15:45

Leidenfrost like effect exhibited by microbubbles for biological systems such as Anaerobic Fermenters
P. Desai, S. Jaffe and W. Zimmerman

Mr. Pratik Desai, University
of Sheffield, UK

15:45-16:00	Enzymatic synthesis of glycans with Immobilised Leloir-Glycosyltransferases in a microreactor system R. Heinzler , J. Hübner, L. Elling and M. Franzreb	Mr. Raphael Heinzler , Karlsruhe Institute of Technology, Germany
16:00-16:30 Coffee Break / Exhibition / Posters Session I		
16:30-16:45	Fermentation integrated with in situ separation of bio-products using microbubble technology	Mr. Ali Mulakhudair , The university of Sheffield, UK
16:45-17:00	Fabrication and application of 'all-printed' enzymatic microreactors B. Schmieg , F. Kazenwadel, J. Wohlgemuth and M. Franzreb	Ms. Barbara Schmieg , Karlsruhe Institute of Technology, Germany
17:00-17:15	Effect of wavelength tuning material and CO2 supply on Dunaliella Salina growth in photobioreactor H. Burak , A. Dunbar, D. James Gilmour	Mrs. Hatice Burak , University of Sheffield, UK
17:15-17:30	Structural elucidation of xylan and xylooligosaccharides from selected underutilised African crops N. Arumugam , P. Biely, V. Puchart, A.Gerrano, S.Singh and S.Kumar	Mr. Nanthakumar Arumugam , Durban University of Technology, South Africa.
17:30-17:45	Rheology of Activated Sludge as a means to Indicate Floc Structure Changes and Settling Properties V. Bakos , L. Vachoud, M. Delalonde, B.S. Gyarmati, E. Ruiz, A. Szilágyi, G.M. Tardy, A. Jobbágy and C. Wisniewski	Dr. Vince Bakos , Budapest University of Technology and Economics, Hungary
17:45-18:00	Yield and characteristics of keratin hydrolysates obtained from chicken feathers irradiated with accelerated electrons G. Mendieta, P. Castillo and M. Sinche	Mr. Marco Sinche , National polytechnic school, Ecuador

June 29th, 2017
Nanotech/Biotech Joint Plenary session II

Amphitheatre H

Session's Chairs:
Prof. Jacques Jupille, Institut des Nanosciences de Paris, France
Prof. Cédric Chauvierre, INSERM Paris, France

09:00-09:45	Medical Nanochemistry, the use of reactive inorganic nanoparticles in medicine. V. Puentes	Prof. Victor Puentes , Institut Català de Nanotecnologia-Barelona, Spain
09:45-10:30	Engineering porous silicon nanoparticles for smart drug delivery N. Voelcker	Prof. Nicolas Voelcker , Monash University, Australia
10:30-11:00 Coffee Break / exhibition		

June 29th, 2017
Nanotech/Biotech joint Session III: NanoBioMedecine/Nanosafety

Conference Room 508

Session's Chairs:
Prof. Cédric Chauvierre, INSERM Paris, France
Prof. Maryam Tabrizian, McGill University, Canada

11:00-11:30	Gold nanoparticles can transport charge across phospholipid bilayer membranes M. Brust	Prof. Mathias Brust , University of Liverpool, UK
11:30-12:00	Nanomedicine for Molecular Imaging and Targeted Therapy of Cardiovascular Diseases C. Chauvierre	Prof. Cédric Chauvierre , INSERM Paris, France
12:00-12:30	Multilayer Nano-Films for Controlled Release of Therapeutics J. Hong , U. Han and D. Choi	Prof. Jinkee Hong , Chung Ang University, Rep. of Korea
12:30-14:00 Lunch Break / Exhibition / Posters session II		

Session's Chairs:
Prof. Nicolas Voelcker, Monash University, Australia
Prof. Cédric Chauvierre, INSERM Paris, France
Prof. Maryam Tabrizian, McGill University, Canada
Prof Chia-Ching Chang, National Chiao Tung University, Taiwan

14:00-14:15	A targeted vaccine delivery system using functionalized gold nanocages and an intestinal Trojan horse C. Yu, T. Tong , Q. Wang and C. Miller	Mr. Tianjian Tong , Iowa State University, USA
14:15-14:30	Asymmetric flow field-flow fractionation: A new approach for analysis of the protein corona C. Weber , K. Landfester and S. Winzen	Ms. Claudia Weber , Max Planck Institute for Polymer Research Mainz, Germany
14:30-14:45	Simultaneous Live Cell Monitoring and Gene Therapy with Multifunctional Carbon Nanoparticles M. Aramesh	Dr. Morteza Aramesh , ETH Zürich, Switzerland
14:45-15:00	Elaboration of nanohybrid based on titanate nanotubes for biomedical applications: new nanovectors of resveratrol derivatives F. Sallem , J. Boudon, R. Haji, D. Fasseur-Vervandier, A. Megrache, M. El Maaoui and N. Millot	Mrs. Fadoua Sallem , Bourgogne Franche-Comté University, France
15:00-15:15	Enhancing transdermal delivery of hydrophilic compound via synergistic action of d-limonene loaded PEGylated lipid nanocarriers W. Rangsimawong , Y. Obata, P. Opanasopit, T. Rojanarataa, K. Takayama and T. Ngawhirunpata	Ms. Rangsimawong , Silpakorn University, Thailand

15:15-15:30	Plasma Engineered Nanorough Substrates For Stem Cells In Vitro Culture M. MacGregor Ramiasa , I. Hopp, P. Murray and K. Vasilev	Dr. Melanie MacGregor-Ramiasa , University of South Australia, Australia
15:30-15:45	Providing an alternative to covalent stealth modification of nanomaterials by using tunable surfactants S. Winzen , J. Müller, K.N. Bauer, J. C. Schwabacher, D. Prozeller, J. Simon, V. Mailänder and K. Landfester	Dr. Svenja Winzen , Max Planck Institute for Polymer Research, Germany
15:45-16:00	Investigating the Mechanical Properties of Soft Biomaterials Using the Atomic Force Microscopy (AFM) I. Albaijan , V. Sboros and V. Koutsos	Mr. Ibrahim Albaijan , The University of Edinburgh, UK
16:00-16:30 Coffee Break / Exhibition / Posters Session II		
16:30-17:00	Human Pancreatic Islet Secretory Fingerprint Analysis using a Microfluidic Impedance Spectroscopy Platform R.F.Castiello, K. Heileman and M.Tabrizian	Prof. Maryam Tabrizian , McGill University, Canada
17:00-17:30	Ni ions containing DNA nanowire devices C-C. Chang , C-J. Yuan, W-B. Jian, Y-C. Chen and M. Di Ventura	Prof Chia-Ching Chang , National Chiao Tung University, Taiwan
17:30-17:45	Managing industrial accident risks in the Nanomaterials value Chain B. Debray , A. Vignes, G. Binotto, Y. Ollier, J.M. Lacomme, H.D. Le and B. Truchot	Dr. Bruno Debray , INERIS, France
17:45-18:00	Probing the size- and charge dependent cytotoxicity of silica nanoparticles and their application in biosensors M.Mathelié-Guinlet , L. Beven, I. Gammoudi, F. Moroté, C.Grauby-Heywang, M-H.Delville and T. Cohen-Bouhacina	Ms. Marion Mathelié-Guinlet , Bordeaux University, France
18:00-18:15	Nanogap Capacitive Biosensor For Lable-Free Aptamer-Based Protein Detection Z. Ghobaei Namhil and N.T. Kemp	Mrs. Zahra Ghobaei Namhil , University of Hull, UK

June 29th, 2017

Focused session on Nanomedicine for cancer diagnosis and therapy

Conference Room 561

Session's Chairs:

Dr. Holger Stephan, Helmholtz-Zentrum Dresden-Rossendorf, Germany
Dr. Kristof Zarschler, Helmholtz-Zentrum Dresden-Rossendorf, Germany

14:00-14:45	Breakable materials for hepatocarcinoma therapy L. De Cola	Prof. Luisa De Cola , University of Strasbourg, France
14:45-15:15	Magnetic Nanoparticles for magnetic hyperthermia and cytotoxic action: from the synthesis to their in vitro and in vivo characterization T. Pellegrino	Dr. Teresa Pellegrino , Istituto Italiano di Tecnologia, Italy
15:15-15:45	Raspberry-Like Magneto-Fluorescent Nanoassemblies as Versatile Platforms for In Vitro and In Vivo Diagnostics J. Boucard, J. Poly, T. Blondy, C. Linot, C. Blanquart, P. Arosio, A. Lascialfari, L. Lartigue and E. Ishow	Prof. Eléna Ishow , Nantes University, France .
15:45-16:15	Nano-modified natural therapeutic agents to target copper homeostasis in Neuroblastoma O. Vittorio , M. B. Brandl, G. Cirillo, K. Kimpton, E. M. H. Yee, N. Kumar and M. Kavallaris	Dr. Orazio Vittorio , University of New South Wales, Australia
16:00-16:30 Coffee Break / Exhibition / Posters Session II		
16:30-17:00	Polymer radionuclide conjugates - the selected stories from the Institute of Macromolecular Chemistry AS CR M. Hrubý , J. Kučka, J. Pánek and P. Štěpánek	Dr. Martin Hrubý , Academy of Sciences of the Czech Republic, Czech Republic
17:00-17:15	Synthesis and In Vitro Evaluation of a Cancer-Specific Dual-Targeting ¹⁷⁷ Lu-Nanoradiopharmaceutical A. González , E.P. Azorin, C.L. Santos, B.E. Ocampo, N. Jiménez, F.M. Ramírez, K. Isaac, E. Morales and G. Ferro	Mr. Abraham Gonzalez , University of the State of Mexico, Mexico

17:15-17:30	Upconverting nanophosphors for bioimaging: Preparation Strategies for Hydrophilic Colloidal Stable Particles A. Nsubuga , T. Joshi, M. Sgarzi and H. Stephan	Ms. Anne Nsubuga , Helmholtz Zentrum Dresden Rossendorf, Germany
17:30-17:45	Active targeting and in vivo multimodal imaging of renally excretable polymer nanoparticles K. Pant , K. Zarschler, C. Neuber, J. Pufe, J. Pietzsch, J. Steinbach, R. Haag and H. Stephan	Ms. Kritee Pant , Helmholtz Zentrum Dresden Rossendorf, Germany
17:45-18:00	Mannan conjugates for multimodal imaging M. Rabyk , M. Jiratova, A. Galisova, D. Jirak and M. Hruby	Mrs. Mariia Rabyk , Academy of Sciences of the Czech Republic, Czech Republic
18:00-18:15	Biophysical modelisation of gold nanoparticles radiosensitizing effects F. Poignant , B. Gervais, A. Ipatov, C. Monini, M. Cunha, P.J Lartaud, T. Bacle, E. Testa and M. Beuve	Ms. Floriane Poignant , Institut de Physique Nucléaire de Lyon, France
18:15-18:30	Thermal and biological study of benignly synthesized silver/reduced graphene oxide nanocomposites S.S. Mehetre and M. Singh	Mr. Shantilal S. Mehetre Central University of Gujarat, India

June 30th, 2017

Nanotech/Biotech joint Session IV: NanoBioMedecine /Nanosafety

Conference Room 508

Session's Chairs:

Prof Chia-Ching Chang, National Chiao Tung University, Taiwan

Prof. Mathias Brust, University of Liverpool, UK

09:00-09:30	Nanopores: Transistors for Ions in Solution J. Feng	Dr. Jiandong Feng , Ecole Polytechnique Fédérale Lausanne, Switzerland
09:30-10:00	Innovative materials for active food packaging: antimicrobial release from inorganic carrier embedded into biodegradable composites M. Stanzione, F. Tescione, P. Cerruti, M. Lavorgna, G.G. Buonocore	Dr. Giovanna G. Buonocore Institute of Polymers, Composites and Biomaterials (IPCB)- Naples, Italy
10:00-10:30 Coffee Break / Exhibition		
10:30-10:45	Colloidal characterization of surface modified CuO nanosuspensions in media relevant for nano (eco) toxicology S. Ortelli , M. Blosi, I. Zaroni, C. Baldisserri and A. L. Costa	Dr. Simona Ortelli , Institute of Science and Technology for Ceramics-CNR, Italy
10:45-11:00	Gold nanoparticles induce mitochondrial dysfunction in monocytic THP.1 cells: a combined transcriptomics and proteomics approach A. Gallud , S. Katayama, A.J. Ytterberg, T. Skoog, N.K. Tarasova, V. Gogvadze, S. Moya, J. Ruiz, D. Astruc, R.A. Zubarev, J. Kere and B. Fadeel	Dr. Audrey Gallud , Karolinska Institutet, Sweden
11:00-11:15	Fabrication of hieratically porous calcium carbonate scaffolds for bone tissue engineering S.K. Sharma , A.D. Woldetsadik, M. Magzoub and R. Jagannathan	Dr. Sudhir Kumar Sharma , New York University Abu Dhabi, UAE .
11:15-11:30	Biocompatible scaffolds for tissue regeneration G. Panella , A.C. Dhez, F. Giansanti, G. Fioravanti, L. Ottaviano, F. Angelucci, L. Di Leandro, L. Cristiano, A. Cimini and R. Ippoliti	Ms. Gloria Panella , University of L'Aquila, Italy
11:30-11:45	Creating a discovery solution for nanotechnology – Challenges & Prospects A. Gheisi , W. Chiuman, P. Roy and J. Xiao	Dr. Amir Gheisi , Springer Nature, Germany

June 30th, 2017

Biotech Session V: Environmental Biotechnology- Green Economy

Conference Room 911

Session's Chairs: Dr. Yvonne van der Meer, Maastricht University, The Netherlands and Dr. Vince Bakos, Budapest University of Technology and Economics, Hungary

09:15-10:00	Sustainability of biobased materials: opportunities and challenges Y.V.Der Meer	Dr. Yvonne van der Meer , Maastricht University, The Netherlands
10:00-10:30 Coffee Break / Exhibition		
10:30-11:15	Developing biomass producing rhizoremediation technology by symbiosis of duckweed and beneficial bacteria M. Morikawa , A. Kawahata, K. Miwa	Prof. Masaaki Morikawa , Hokkaido University, Japan
11:15-11:30	Gene stacking of multiple traits for high yield of fermentable sugars in plant biomass A. Aznar , C. Chalvin, V.M. Gondolf, B. Ebert, D. Birdseye, D. Loqué and H.V. Scheller	Dr. Aude Aznar , Lawrence Berkeley National Laboratory, USA
11:30-11:45	Conceptual design of a self-sufficient hybrid biorefinery for syn-gas production and fermentation to ethanol E.M. de Medeiros , J.A. Posada, H. Noorman, P. Osseweijer and R.M. Filho	Ms. Elisa de Medeiros , University of Campinas, Brazil / Delft University of Technology, The Netherlands
11:45-12:00	A comparative study on efficacy of bioinoculants and chemical fertilizers on crop and resident microflora R. Sharma , R. Gupta, V.S. Bisaria and S. Sharma	Ms. Richa Sharma , Indian Institute of Technology Delhi, India

Posters Session: June 28th, 2017
Biotech France 2017

Exhibition and Poster Hall

N.	Title	Author/Affiliation/Country
1	Squalene synthase is a peroxisomal enzyme in the slime mould Dictyostelium discoideum M.Y. Al-Hejjaj , D.J. Watts and E.H. Hetteema	Mr. Murtakab Y. Al-Hejjaj , University of Sheffield, UK
2	Metabolite profiling of root-knot nematode (Meloidogyne incognita) at different growth stages B-S. Hahn , P. Subramanian, C-M. Lee and J-S. Sim	Dr. Bum-Soo Hahn , National Institute of Agricultural Sciences, Rep. of Korea
3	Investigation of neutral lipid production by a new strain of the green alga Desmodesmus armatus A. Al-Mousawi and D. James Gilmour	Mr. Adnan Al-Mousawi , University of Sheffield, UK
4	Non-targeted metabolomics-based screening of functional biomarkers with antioxidant activity from diverse hot peppers J-S. Sim , S-J. Choi, J-S. Kim, Y. Choi, O. Hur, J-K. Kwon, B-C. Kang, C-M. Lee and B-S. Hahn	Dr. Joon-Soo Sim , National Institute of Agricultural Sciences, Rep. of Korea
5	A two-step process for improving of refractory sulfide concentration biooxidation M. Muravyov and N. Fomchenko	Dr. Maxim Muravyov , Research Center of Biotechnology, Russian Academy of Sciences, Russia
6	Structural studies of proteins of Red pathway system in Lambda phage N.A. Alkaabawi , G. Sharples, Svetlana and Dr. J. B. Raffety	Mr. Naer A. Alkaabawi , University of Sheffield, UK
7	The Constituents of Betula platyphylla that have Cytotoxic Effects on A549 Adenocarcinomic Human Alveolar Basal Epithelial Cell Line Y.K. Son , J-H. An, C-H. Bae, W.Y. Bang, S. Lee, W-J. Chi, H. Yoon and K-S. Song	Dr. Youn Kyong Son , National Institute of Biological Resources-Incheon, Rep. of Korea
8	The Improved Protective Effects of Phase I Metabolites of Isoliquiritigenin on Glutamate-Induced Cell Death of Mouse Hippocampal Neurons C-H. Bae , Y.K. Son, E-J. Yang, M. Kim, J.E. Woo, W.Y. Bang, S. Lee, W-J. Chi, H. Yoon, J.W. Jung and K-S. Song	Dr. Chang-Hwan Bae , National Institute of Biological Resources-Incheon, Rep. of Korea
9	Development of a Cell-based High-Throughput Assay for Evaluating PTBP1 Alternative Splicing Inhibition in Live Cells M. Bredel , R. Rajbhandari, W. Placzek and S. Nozell	Prof. Markus Bredel , University of Alabama at Birmingham, USA
10	Therapeutic effects of recombinant Salmonella typhimurium harboring CCL17 miRNA on atopic dermatitis-like skin in mice. W.Yoon , S. Seok Lee, K. Lee, Y.K. Park, J.T. Choung and Y. Yoo	Prof. Wonsuck Yoon , Korea University-Seoul, Rep. of Korea.
11	Investigating The Mechanical Properties of The Hydrogels Using The Atomic Force Microscopy (AFM) I. Albaijan , V. Sboros and V. Koutsos	Mr. Ibrahim Albaijan , The University of Edinburgh, UK.
12	3D-printed magnetically induced fluidized-bed reactor for electrochemical applications A.Tschöpe and M. Franzreb	Mr. André Tschöpe , Karlsruhe Institute of Technology, Germany
13	Biosorption of Chromium and Cadmium from tannery effluent by free and immobilized cyanobacterial and bacterial consortium: Equilibrium and structural studies N. Patil and G.A.Ravishankar	Dr. Nilambari Patil , Dayananda Sagar Institution, India
14	Screening of plant endophytes to control pine wood nematode J. Choi , S.Kang and K-H. Baek	Dr. Jinhee Choi , Yeungnam University, Rep. of Korea
15	Reaction Characteristics of Catalytic Triglyceride Hydroconversion over Noble Metal-Supported Zeolite Catalyst for Production of Bio-Jet Fuel from Palm Oil B. H. Jeong , J. S. Han, M. K. Choi, G. B. Han and J. H. Jang	Dr. Byung Hun Jeong , Agency for Defense Development, Rep. of Korea
16	Catalytic Hydrodeoxygenation over the Metal-Supported Catalysts for Transformation of Oxygenated Hydrocarbon Compounds into Iso-Alkanes J. S. Han , B. H. Jeong, Y. W. Suh, G. B. Han and J. H. Jang	Dr. Jeong Sik Han , Agency for Defense Development, Rep. of Korea

17	Surface Plasmon Resonance Based strategies for extraction of tyrosinase inhibitors from natural sources S. Patil and V. Bapat	Dr. Sushama Patil, Shivaji University, India
18	Synthesis, characterization, DFT calculations of copper(II) complex with paracetamol drug. Biological and antioxidant activities. O. Hamrani, Z. Hank and S. Boutamine	Dr. Zakia Hank, University of Science and Technology Houari Boumediene, Algeria