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Scientific Program

International Conference and Exhibition on

Nanomedicine & Drug Delivery

May 29-31, 2017
Osaka, Japan

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ESB European Society for Biomaterials 40 years 1976-2016
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Day 1 | May 29, 2017 | Monday

08:00-09:00 Registrations

Hall Name

09:00-09:25 Opening Ceremony

Keynote Forum

09:25-09:30 **Introduction**

09:30-10:00 **Title: Combination siRNA/drug nanopreparations for multidrug resistant cancer**
Vladimir Torchilin, Northeastern University, USA

10:00-10:30 **Title: Modes of topical and localized drug delivery of nanoparticle and microparticle based formulations**
Irach B Taraporewala, Sitara Pharmaceutical Group, USA

Group Photo

Networking and Refreshments 10:30-10:45

10:45-11:15 **Title: Development and bio-applications of nontoxic C-Dots**
Roger M Leblanc, University of Miami, USA

11:15-11:45 **Title: DQAsome-based delivery of phosphorothioate gapmer antisense oligonucleotides as therapy for Clostridium difficile**
Volkmar Weissig, Midwestern University, USA

Sessions:
Smart Drug Delivery Systems | Vaccine Drug Delivery Systems | Routes of Drug Delivery

Session Chair: Vladimir Torchilin, Northeastern University, USA
Session Chair: Volkmar Weissig, Midwestern University, USA

11:45-12:05 **Title: Smart soft matter enabled nanomedicines**
Michael Whittaker, ARC Centre of Excellence in Convergent Bio-Nano Science & Technology, Australia

12:05-12:25 **Title: Electrofluidinamics: A new toolbox to design instructive platforms for tissue engineering and molecular therapies**
Vincenzo Guarino, National Research Council of Italy, Italy

12:25-12:45 **Title:Vascular-targeted TNFα and IFNγ inhibited orthotopic colorectal tumor growth**
Chi Hin Cho, The Chinese University of Hong Kong, China

12:45-13:05 **Title: β-casein nanovehicles for oral delivery of chemotherapeutic drug combinations overcoming P-glycoprotein-mediated multidrug resistance in human gastric cancer cells**
Yoav D Livney, Israel Institute of Technology, Israel

Lunch Break 13:05-13:45

Work Shop

13:45-14:25 **Title: Engineered nanomaterials: Toward effective safety management in research laboratories**
Thierry Meyer, EPFL Safety Competence Center, Switzerland

14:25-14:45 **Title: Bone microenvironment targeted nanoparticles for metastatic prostate cancer treatment**
Jamboor Vishwanatha, UNT Health Science Center, USA

14:45-15:05 **Title: Polymer cancerostatics with a coiled coil motif targeted against murine leukemia**
Michal Pechar, Czech Academy of Sciences, Czech Republic

15:05-15:25 **Title: Self-assembly PEGylation Retaining Activity (SPRA) Technology via a host–guest interaction surpassing conventional PEGylation methods of Insulin**
Hidetoshi Arima, Kumamoto University, Japan

Networking and Refreshments 15:25-15:40

15:40-16:00 **Title: Bioengineered nanomedicines for modulation of intestinal anti-diabetic peptide delivery**
Bruno Sarmento, University of Porto, Portugal

16:00-16:20 **Title: The drug delivery (r)evolution: Nanomedicine and 3D printing for personalized therapies**
Yareli Rojas-Aguirre, CCADET-UNAM, Mexico

Sessions:
Nanotechnology in Drug Delivery | Pharmaceutical Nanotechnology | Biomaterials in Drug Delivery

Session Chair: Vladimir Torchilin, Northeastern University, USA
Session Chair: TBD

16:20-16:40 **Title: Ultrasound microbubbles: unique vehicles for targeted delivery of therapeutic molecules**
Rene J P Musters, VU University Medical Center, The Netherlands

16:40-17:00	**Title: Bacterial-Derived Gamma Polyglutamic Acid (γ-PGA) as a Protective Agent for Beneficial Viruses and its Potential Applications as a Smart Delivery System** Iza K Radecka, University of Wolverhampton, UK
17:00-17:20	**Title: Liposomes targeted with therapeutic antibodies: a potent tool in anticancer therapy** Aleksander F Sikorski, University of Wroclaw, Poland
17:20-17:40	**Title: Peptide-based nanoparticles of immune-evasive, immune-tolerable, and immune-active properties** Shunsaku Kimura, Kyoto University, Japan
17:40-18:00	**Title: Islet-based insulin delivery to the brain for treatment of cognitive and metabolic disorders** Konstantin Bloch, Tel Aviv University, Israel
18:00-18:20	**Title: Biological and Micellar Properties of Nano Transition Metal (Co, Fe, Ni, Cu and Zn) Complexes of 4-(1H-Imidazo[4,5-f][1,10]Phenanthroline-2-yl)-N,Ndimethylbenzene Amine.** Md Abdus Subhan,Shah Jalal University of Science and Technology, Bangladesh
	Panel Discussion
	Day 1 Concludes

Day 2 | May 30, 2017 | Tuesday	
	Hall Name
	Keynote Forum
09:30-10:00	**Title: Drug delivery across the blood brain barrier** Alain L Fymat, International Institute of Medicine and Science California, USA
10:00-10:30	**Title: Cathepsin nanofibers substrates for targeted drug delivery** Galia Blum, The Hebrew University of Jerusalem, Israel
10:30-11:00	**Title: Application of mass spectrometry imaging in the diagnosis of difficult melanocytic lesions** Rossitza Lazova, California Skin Institute, USA
	Networking and Refreshments 11:00-11:15
	Sessions: Peptides and Protein Drug Delivery | Drug Targeting and Design | Nanoparticulate Drug Delivery Systems | Biomaterials in Drug Delivery
	Session Chair: Alain L Fymat, International Institute of Medicine and Science California, USA Session Chair: TBD
11:15-11:35	**Title: Nanomaterial synthesis and study for biomedicine and cancer treatment** Erwan Rauwel, Tallinn University of Technology, Estonia
11:35-11:55	**Title: Platform technologies for accelerating the translation of nanomedicine** Chun Xia Zhao, The University of Queensland, Australia
11:55-12:15	**Title: Stability of ranibizumab and aflibercept for sustained release, Their delivery from thiolated chitosan-based hydrogels** Miguel Moreno, Nanyang Technological University, Singapore
12:15-12:35	**Title: Conformational epitopes-based lipopeptide vaccines against Schistosoma mansoni and Necator americanus** David Passlick, Max Planck Institute for Polymer Research, Germany
12:35-12:55	**Title: The NanoAssemblr platform: Novel nanoparticle engineering for delivery of the genetic toolbox** Mehran Ghiaci, Isfahan University of Technology, Iran
	Lunch Break 12:55-13:35
13:35-13:55	**Title: Fabrication, characteristic, and future-biomedicine applications of villous oxalates** Chen Hsu, Lungwha University,Taiwan
13:55-14:15	**Title: Synthesis, antibacterial, cytotoxicity and sensing properties of starch-capped silver nanoparticles** Oluwatobi S Oluwafemi, University of Johannesburg, South Africa
14:15-14:35	**Title: "Quadrugnostic" Nanomedicine for overcoming anticancer drug resistance and for diagnostics** Yoav D Livney, Israel Institute of Technology, Israel
14:35-14:55	**Title: Intelligent nanoparticles for combination photoimmunotherapy of cancer** Yaping Li, Chinese Academy of Sciences, China
14:55-15:15	**Title: Rapid prototyped nanocomposite magnetic scaffolds for tissue regeneration** Roberto De Santis, National Research Council of Italy, Italy
15:15-15:35	**Title: Consecutive evaluation of graphene oxide and reduced graphene oxide nanoplatelets immunotoxicity on monocytes** Chia-Hua Lin, National Formosa University, Taiwan

15:35-15:55	**Title: Nano-liposomes using supercritical fluid system for nutraceuticals** Manohar Balaraman,CSIR-Central Food technological research Institute, India
	Networking and Refreshments 15:55-16:10
16:10-16:30	**Title: Supercritical micronization as an important technique to produce pharmaceutical microparticles** Beatriz P Nobre, Lisbon University, Portugal
16:30-16:50	**Title: Extracellular biosynthesis of silver nanoparticles using Rhizopus stonilifer** Khalid AbdelRahim, King Saud University, KSA
16:50-17:10	**Title: Mitochondrial targeted photosensitizer loaded albumin nanoparticle for photodynamic therapy of malignant brain tumors** Young Tag Ko, Gachon University, South Korea
	Poster Presentations @ 16:00-18:00
Poster Judges:	Erwan Rauwel, Tallinn University of Technology, Estonia Vladimir Torchilin, Northeastern University, USA
PND01	**Title: Exposure to excess phenobarbital negatively influences the osteogenesis of chick embryos** Yu Yan, Jinan University, China
PND02	**Title: Study of the interactions of polymeric nanoparticles with model lung surfactant** Weiam Daear, University of Calgary, Canada
PND03	**Title: Co-delivery of Squalenoyl-Gemcitabine and Paclitaxel by thermo-responsive polymeric micelles to pancreatic cells in vitro** Mandana Emamzadeh, UCL School of Pharmacy, UK
PND04	**Title: Synthesis of polymeric Nano Particles (NPs) for the encapsulation of Mono Myristin (MM)** Sirirat Boondireke, Srinakharinwirot University, Thailand
PND05	**Title: In vivo imaging of passively tumor targeted polymer carrier and the enzymatically cleavable drug model** Robert Pola, Academy of Sciences of the Czech Republic, Czech Republic
PND06	**Title: Preparation and in vitro evaluation of polymer conjugates actively targeted using RGD-based peptides** Eliska Bohmova, Academy of Sciences of the Czech Republic, Czech Republic
PND07	**Title: Polymer nanotherapeutics for overcoming of multidrug resistance** Alena Braunova, Academy of Sciences of the Czech Republic, Czech Republic
PND08	**Title: HA-based nanocomplexes for head and neck cancer with lymphatic metastasis** Chih-Peng Liu, Industrial Technology Research Institute, Taiwan
PND09	**Title: Assembly of double-hydrophilic block copolymers triggered by gadolinium ions: New colloidal MRI contrast agents** Agathe Figarol, UPS/CNRS; IMRCP, France
PND10	**Title: Polymeric self-assemblies for photodynamic therapy: A critical approach** Agathe Figarol, UPS/CNRS; IMRCP, France
PND11	**Title: Laser triggered release of gemcitabine from polymer coated gold nanoshells for pancreatic cancer** Mina Emamzadeh, UCL School of Pharmacy, UK
PND12	**Title: Impact of cargo-carrier interactions on micelles' biodistribution** Adrian T Press, Jena University Hospital, Germany
PND13	**Title: Evaluation of drug delivery system targeting glioblastoma cells using liposome modified with monomeric fusion protein of CTX (M-CTX-FC)** Hafizah Mahmud, Okayama University, Japan
PND14	**Title: Targeting of gioblastoma with multivalent of anti-CD44 antibodyPaclitaxel glycoside liposomes** Apriliana Cahya Khayrani, Okayama University, Japan
PND15	**Title: A microfluidic-based gradient medical waveform generator for pharmacology in single-cell** Yiran Guo, Huazhong University of Science & Technology, China
PND16	**Title: Modeling of 3D additive manufactured nanocomposite scaffolds** Paola Castaldo, Fastissues srls, Italy
PND17	**Title: Chemiluminescence mediated light free photodynamic therapy** Berwin Singh S V, Chonbuk National University, Republic of Korea
PND18	**Title: Evaluation of wound healing effect of hydrogen peroxide responsive vanillyl alcohol-containing polymer in vivo** Berwin Singh S V, Chonbuk National University, Republic of Korea
PND19	**Title: Targeting of liposomes loaded with mitoxantrone, into melanoma cells in a 3D spheroid model** Nina Filipczak, University of Wroclaw, Poland

PND20	**Title: Copper II ions detection via localized surface plasmon resonance** Seongjae Jo, Korea University, Republic of Korea
PND21	**Title: HA-based nanocomplexes for head and neck cancer with lymphatic metastasis** Chih-Peng Liu, Industrial Technology Research Institute, Taiwan
PND22	**Title: Applications of flower-shaped polymer-ZnO nanocomposites for topical delivery of Dendropanax morbifera extract and ginsenoside Rh2** Josua Markus, Kyung Hee University, Republic of Korea
PND23	**Title: Synthesis of nanomaterials for drugs delivery and cancer biomarkers and therapy** Badis Bendjemil, University Badji Mokhtar, Algeria
PND24	**Title: Remote control of light-triggered virotherapy** Zi-Xian Liao, National Sun Yat-sen University, Taiwan
PND25	**Title: CD44 targeting hyaluronic acid coated lapatinib nanocrystals for fostered efficacy against triple-negative breast cancer** Satish Agrawal, CSIR-Central Drug Research Institute, India

Group Photo (Poster Presentations)

Panel Discussion

Day 2 Concludes

Day 3 | May 31, 2017 | Wednesday

Hall Name

Young Researchers Forum

Session Chair: Erwan Rauwel, Tallinn University of Technology, Estonia
Session Co-Chair: TBD

09:30-09:45	**Title: Linear and branched polyethynimines for skin regeneration treatment – In vitro study** Lucas B Naves, University of Minho, Portugal
09:45-10:00	**Title: Dental pulp stem cells as anticancer drug delivery system** Hamideh Salehi, University of Montpellier, France
10:00-10:15	**Title: Anti-angiogenic Efficacy Enhancement in Nano Phospholipid complex of Orthosiphon Stamineus Ethanolic Extract** Mansoureh Nazari Vishkaeia, Universiti Sains Malaysia, Malaysia
10:15-10:30	**Title: Size-dependent targeted GNPs as CT contrast agents for molecular imaging of cancer** Darya Tsvirkun, Institute of Drug Research, The Hebrew University of Jerusalem, Israel
10:30-10:45	**Title: Fluorometholone loaded nanospheres PLGA for the treatment of oculars disorders** Roberto González Pizarro, University of Barcelona, Spain
10:45-11:00	**Title: Encapsulation of agonist PPAR- γ in polymeric nanoparticles to treat ocular inflammatory processes** Marcelle Silva de Abreu, University of Barcelona, Spain

Networking and Refreshments 11:00-11:15

11:15-11:30	**Title: The combination of pH-Responsive peptide and cationic liposomes can improve siRNA transfection efficiency in cancer cells** Shahd Abuhelal, King's College London, UK
11:30-11:45	**Title: Oral delivery of folate targeted colorectal cancer therapeutics** Dewan Taslima Akhter, University of Queensland, Australia
11:45-12:00	**Title: Controlling the stiffness of biomimetic silica nanocapsules and its impact on cellular uptake** Yue Hui, The University of Queensland, Australia
12:00-12:15	**Title: Synthesis of ginseng-based nanoparticles and its applications** Yeon-Ju Kim, Kyung Hee University, Republic of Korea
12:15-12:30	**Title: High yield synthesis of surfactant-free gold nanostars for biosensing, photothermal therapy and drug delivery applications** Akash Arya, Indian Institute of Technology Patna, India
12:45-13:00	**Title: Cerium oxide nanoparticles: An emerging class of UVA filter** Aditya Arya, India

Lunch Break 13:00-13:40

Final Day Group Photo

B2B Meetings

Award Ceremony