



# Event Schedule

Time: June 16-18, 2016

Venue: Korea International Exhibition Center (KINTEX), Gyeonggi, South Korea

| Date and Time | June 15, 2016<br>Day 0<br>(Wednesday) | June 16, 2016<br>Day 1<br>(Thursday)  | June 17, 2016<br>Day 2<br>(Friday)  | June 18, 2016<br>Day 3<br>(Saturday)   |
|---------------|---------------------------------------|---|---|--|
| 08:30-12:10   |                                       | <p><b>Opening Ceremony &amp; Keynote Forum</b><br/>(Room No. 301, 3<sup>rd</sup> Floor, KINTEX 2)</p>   | <p>Session 1-2: Lead Optimization Strategies<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 3-2: Novel Technologies for Biopharmaceutical Drug Delivery<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 5-1: Biologics Drugs<br/>(Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-1: Metabolic Disorders<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p> | <p>Session 2-3: ADME and Toxicology<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 3-3: Nanotechnologies for Drug Delivery Systems<br/>(Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-3: Muscle, Joint and Bone Disorders<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-4: Infection Diseases (Part I)<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p>  |
| 12:10-13:30   |                                       | <b>Lunch</b>  |   |  |
| 13:30-17:30   | <p><b>Registration</b></p>            | <p>Session 1-1: Drug Design and Synthesis<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 2-1: Pharmacovigilance, Drug Safety and Risk Management<br/>(Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 3-1: Breaking Research and Innovative DDS Technologies<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 4-1: Genetics<br/>(Room No. 308, 3<sup>rd</sup> Floor, KINTEX 2)</p> | <p>Session 1-3: Small Molecule Drug for Major Diseases<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 2-2: Neuropsychopharmacology and Drug Discovery<br/>(Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-2: Digestive System Diseases<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p>  | <p>Session 3-4: Medical Devices for Drug Delivery, Surgery and Therapy<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-4: Infection Diseases (Part II)<br/>(Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-5: Cardiovascular Diseases<br/>(Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Session 6-6: Other Diseases<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p> <p>Young Scientist Forum<br/>(Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2)</p> |
| 17:30-18:30   | <b>Dinner</b>                         | <b>Social Hour</b>  |   |  |
| 18:30-20:30   | <b>Dinner</b>                         | <b>Dinner</b>   |   |  |



## Program

Time: June 16-18, 2016

Venue: Korea International Exhibition Center (KINTEX), Gyeonggi, South Korea

### Registration

Time: 09:00-22:00, June 15, 2016 (Wednesday); Place: Registration Desk, 1<sup>st</sup> Floor, MVL Hotel

Time: 08:00-18:00, June 16, 2016 (Thursday); Place: Registration Desk, 3<sup>rd</sup> Floor, KINTEX 2

### Opening Ceremony & Keynote Forum

#### Keynote Forum

Time: 09:00-11:40, June 16, 2016 (Thursday); Place: Room No. 301, 3<sup>rd</sup> Floor, KINTEX 2

**Moderator**            *Dr. Jianxun Xie*, Head of Toxicology, Roche Innovation Center Shanghai, China

09:00-09:10            **Opening Remark**

09:10-09:40            **Title:** *Accelerated Innovative Process Chemistry Applications are Integral Part of Drug Development*

*Dr. Chris H. Senanayake*, Vice President, Department of Chemical Development, Boehringer Ingelheim Pharmaceuticals, Inc., USA

09:40-10:10            **Title:** *Understanding and Overcoming Barriers in RNA Interference*

*Dr. Bruce Given*, COO, Arrowhead Research Corporation, USA

10:10-10:40            **Title:** *FDA's Proposed Rule on Generic Drug Labeling Could Present Major Challenges to the Generic Drug Industry*

*Dr. Joseph P. Thomas*, Chair of the Life Sciences Group and Co-chair of the Litigation Department, Ulmer & Berne LLP, USA

10:40-11:10            **Title:** *The Microbiome-A Universe of Therapeutic Potential*

*Mr. Sean Hall*, CEO, Medlab Clinical Ltd., Australia

11:10-11:40            **Title:** *From Protein Structures to the Clinic*

*Dr. Seonggu Ro*, Executive Vice President & CTO, CrystalGenomics, Inc., South Korea

### Part 1: Medicinal Chemistry

#### Session 1-1: Drug Design and Synthesis

Time: 13:30-18:00, June 16, 2016 (Thursday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2

**Chair**                    *Dr. Xiang-Qun Xie*, Associate Dean and Professor, School of Pharmacy, University of Pittsburgh, USA

13:30-13:35            **Chair's Introduction**



- 13:35-14:00      **Keynote Speech**  
*Title: How Green is Green? Crafting a General Green Chemistry Strategy for Industry*  
**Dr. Frank Roschangar**, Director, Process Research & Global External Chemistry Management, Chemical Development US, Boehringer Ingelheim Pharmaceuticals Inc., USA
- 14:00-14:25      *Title: Precision Pharmacology. Thinking Inside Precision Medicine via Diseases-Specific Chemogenomics Knowledgebases and TargetHunter<sup>®</sup>*  
**Dr. Xiang-Qun Xie**, Associate Dean and Professor, School of Pharmacy, University of Pittsburgh, USA
- 14:25-14:50      *Title: Disaccharide Mimetics as Drugs Against Cancer and Epitopes for Anti-Cancer Vaccine Candidates*  
**Dr. Pierre Vogel**, Professor, Swiss Institute of Technology in Lausanne (EPFL), Switzerland
- 14:50-15:15      *Title: First Successful Use of Halogen Bonding in Structure-Based Drug Design to Generate a Novel Factor Xa Inhibitor Candidate*  
**Dr. Patrick Y. S. Lam**, Adjunct Professor, Drexel University College of Medicine, USA
- 15:15-15:30      **Coffee Break**
- 15:30-15:55      *Title: Native State Mass Spectrometry to Identify Novel Chemical Starting Points for Drug Discovery*  
**Dr. Sally-Ann Poulsen**, Professor, Griffith University, Australia
- 15:55-16:20      *Title: Quantum Mechanical Virtual Screening: Most Accurate and Efficient Tool for Computational Drug Design*  
**Dr. Pavel Hobza**, Professor, Institute of Organic Chemistry and Biochemistry AS CR, v.v.i., Czech Republic
- 16:20-16:45      *Title: Selective PI4K III  $\beta$  Inhibitors as Potential Broad-Spectrum Antiviral Agents and Tools for Chemical Biology*  
**Dr. Radim Nencka**, Group Leader, Institute of Organic Chemistry and Biochemistry AS CR, v.v.i., Czech Republic
- 16:45-17:10      *Title: Copper Mixed Chelate Complexes, Anticancer Activity and Mechanism of Action*  
**Dr. Lena Ruiz-Azuara**, Professor, National Autonomous University of Mexico, Mexico
- 17:10-17:35      *Title: Design and Synthesis of Anti-viral Modified Nucleosides Based on a New Concept to Win the Battle Against Emerging Viruses*  
**Dr. Hiroshi Ohruji**, Professor, Yokohama University of Pharmacy, Japan
- 17:35-18:00      *Title: Synthesis of Antimicrobial Natural Products and Their Analogues -MartineLine and Tubastrine*  
**Dr. Magne O. Sydnes**, Associate Professor, Faculty of Science and Technology, Department of Mathematics and Natural Science, University of Stavanger, Norway



**Session 1-2: Lead Optimization Strategies**

*Time: 08:30-10:15, June 17, 2016 (Friday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** *Dr. Thien Nguyen*, Head of Biotechnology, Centre of Research and Development, Pierre Fabre, France
- 08:30-08:35 **Chair's Introduction**
- 08:35-09:00 *Title: High Density Production of Triptolide, A Potent Anti-Inflammatory Diterpene, by a Novel Cell Culture Engineering of Tripterygium Wilfordii*  
**Dr. Thien Nguyen**, Head of Biotechnology, Centre of Research and Development, Pierre Fabre, France
- 09:00-09:25 *Title: Prediction of Drug Metabolism in Live; Enzyme Selectivity, Regioselectivity, Phase II, Ion Channels, and Nuclear Receptor in Hepatocyte*  
**Dr. Kyoung Tai No**, Professor, Department of Biotechnology, Yonsei University, South Korea
- 09:25-09:50 *Title: Synthesis of the New Family Betulinic Acid-Triazolylpeptide Conjugates Possessing High Hepatoprotective and Anti-Inflammatory Activity*  
**Dr. Sergey F. Vasilevsky**, Head, Institute of Chemical Kinetics and Combustion, Russia
- 09:50-10:15 *Title: Immunomodulatory Effects of Traditional Chinese Medicine on Allergic Diseases*  
**Dr. Ting-I Kao**, Attending Physician, Center of Traditional Chinese Medicine, Chang Gung Memorial Hospital, Taiwan

**Session 1-3: Small Molecule Drug for Major Diseases**

*Time: 13:30-16:45, June 17, 2016 (Friday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** *Dr. Nils Hansen*, CEO, Vipergen ApS, Denmark
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 *Title: Novel Multicomponent Reaction: Synthetic Tool for Array of Focused Libraries Design*  
**Dr. Volodymyr Kysil**, Director of Chemistry, ChemDiv, Inc., USA
- 14:00-14:25 *Title: Thrombopoietin Receptor Signaling Pathways Activation by Calreticulin Mutants Differ from Those Activated Downstream of TpoR and JAK2 Mutants*  
**Dr. Meng Ling Choong**, Group Leader, Experimental Therapeutics Centre, A\*Star, Singapore
- 14:25-14:50 *Title: Discovery of Single Digit Nanomolar Small Molecule Protein-Protein Interaction Blockers*  
**Dr. Nils Hansen**, CEO, Vipergen ApS, Denmark
- 14:50-15:15 *Title: Chemotherapeutic Agent-Mediated Mitotic Arrest, Endoreduplication, and Apoptosis Induction*  
**Dr. Young Ho Kim**, Professor, Kyungpook National University, South Korea
- 15:15-15:30 **Coffee Break**





- 15:30-15:55 *Title: A Promising Use of Some Functionalized Anthraquinone, Tepene and Indole Scaffold as Antitumor Agents Targeting Apoptotic Pathway*  
**Dr. Heng-Shan Wang**, Director, Guangxi Normal University, China
- 15:55-16:20 *Title: Identification of Natural Small-Molecule from Herbal Medicines for Double Targets of SERCA and P-gp in Multidrug-Resistant Cancers*  
**Dr. Vincent Wong**, Associate Professor, Macau University of Science and Technology, Macau, China
- 16:20-16:45 *Title: Development of Thienopyridines as Anticancer Agents*  
**Dr. Johannes Reynisson**, Senior Lecturer, School of Chemical Sciences, University of Auckland, New Zealand

## Part 2: Pharmacology and Toxicology

### Session 2-1: Pharmacovigilance, Drug Safety and Risk Management

*Time: 13:30-15:40, June 16, 2016 (Thursday); Place: Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Raphael Nudelman**, Associate Director, Head of Chemical & Computational Toxicology, Teva Pharmaceutical Industries Ltd., Israel
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 *Title: Genotoxic Impurities: Strategy for Assessment and Control Recommendations*  
**Dr. Raphael Nudelman**, Associate Director, Head of Chemical & Computational Toxicology, Teva Pharmaceutical Industries Ltd., Israel
- 14:00-14:25 *Title: Potential Confounding Effects of Benzyl Alcohol as a Formulation Excipient Support the Elimination of the Abnormal Toxicity Test from Pharmacopoeias*  
**Dr. Jianxun Xie**, Head of Toxicology, Roche Innovation Center Shanghai, China
- 14:25-14:50 *Title: Safety Evaluation of Natural Products*  
**Dr. Hongtao Jin**, Vice Director, New Drug Safety Evaluation Center (NDSEC), PUMC & CAMS; Beijing Union-Genius Pharma, China
- 14:50-15:15 *Title: Pancreatitis Associated with the Use of GLP-1 Analogs and DPP-4 Inhibitors: A Case/Non-Case Study*  
**Dr. Herve Le Louet**, Professor of Clinical Pharmacology, University Paris-Est Creteil (UPEC), France
- 15:15-15:40 *Title: Current Applications for Torsadogenic Index*  
**Dr. Adrian Angel Inchauspe**, Professor, National University of La Plata, Argentina

### Session 2-2: Neuropsychopharmacology and Drug Discovery

*Time: 13:30-17:10, June 17, 2016 (Friday); Place: Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Olivier Bezencon**, Senior Group Leader, Actelion Pharmaceuticals Ltd., Switzerland



- 13:30-13:35      **Chair's Introduction**
- 13:35-14:00      **Title:** *Discovery of Potent, Selective T-channel Blockers for the Treatment of Generalized Epilepsies*  
**Dr. Olivier Bezencon**, Senior Group Leader, Actelion Pharmaceuticals Ltd., Switzerland
- 14:00-14:25      **Title:** *On the Antidepressant Efficacy of Metabotropic Glutamate Receptor Ligands*  
**Dr. Andrzej Pilc**, Head, Neurobiology Department, Institute of Pharmacology, Polish Academy of Sciences, Poland
- 14:25-14:50      **Title:** *Glutamatergic Modulation of Human Cognition with NMDA Receptor Antagonist Treatment: Electrophysiological Models*  
**Dr. Verner J. Knott**, Director, Clinical Neuroelectrophysiology and Cognitive Research Laboratory, University of Ottawa Institute of Mental Health Research, Canada
- 14:50-15:15      **Title:** *The New Actions of Quetiapine Beyond the Blockade of Dopamine Receptors*  
**Dr. Haiyun Xu**, Professor, Shantou University Medical College, China
- 15:15-15:30      **Coffee Break**
- 15:30-15:55      **Title:** *Corticosterone Mitigates the Stress Response in an Animal Model of PTSD*  
**Dr. He Li**, Associate Professor, Uniformed Service University of Health Sciences, USA
- 15:55-16:20      **Title:** *A Randomized, Double-Blind, Placebo-Controlled Phase III Trial of Duloxetine*  
**Dr. Chie Usui**, Associate Professor, Department of Psychiatry, Juntendo University School of Medicine, Japan
- 16:20-16:45      **Title:** *Identification of Novel Autophagic Fraction by Cell Membrane Chromatography and UHPLC-Q/TOF-MS for Degradation of Neurodegenerative Disease Proteins*  
**Dr. Betty Yuen Kwan Law**, Assistant Professor, Macau University of Science and Technology, Macau, China
- 16:45-17:10      **Title:** *Interaction of Afobazole with Sigmar1 in Mice Brains*  
**Dr. Abramova Elena Vladimirovna**, Young Scientist, FSBI "Zakusov Institute of Pharmacology", Russia

**Session 2-3: ADME and Toxicology**

*Time: 08:30-12:10, June 18, 2016 (Saturday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2*

**Chair**                      **Dr. Cyrus Khojasteh**, Associate Director, Genentech, Inc., USA



- 08:30-08:35 **Chair's Introduction**
- 08:35-09:00 **Title:** *Recent Advances in ADME and Safety Optimization of Small Molecule Drugs*  
**Dr. Franz Schuler**, Head of Drug Disposition and Safety, Pharmaceutical Sciences, Roche Pharma Research and Early Development (pRED), Roche Innovation Center Basel, F. Hoffmann-La Roche Ltd., Switzerland
- 09:00-09:25 **Title:** *Properties of Circulating Metabolites*  
**Dr. Cyrus Khojasteh**, Associate Director, Genentech, Inc., USA
- 09:25-09:50 **Title:** *A New Rapid in vitro Assay for Assessing of the Reactivity of Acyl Glucuronides*  
**Dr. Giorgio Ottaviani**, Head of Pharmaceutical Sciences, Roche Innovation Center Shanghai, China
- 09:50-10:15 **Title:** *Non-Clinical Toxicology of Nicotine and Aerosol from a Heated Tobacco Product*  
**Dr. Patrick Vanscheeuwijck**, Director of Pre-Clinical Toxicology, Reduced Risk Products, Philip Morris International, Switzerland
- 10:15-10:30 **Coffee Break**
- 10:30-10:55 **Title:** *Nematic Protein Organisation Technology ,A Powerful Tool to Track Drug Mode of Action and off Targets Side Effects Already at Early Preclinical Development*  
**Dr. Pierre Eftekhari**, Founder and Director, Inoviem Scientific, Strasbourg University, France
- 10:55-11:20 **Title:** *Effect of Food in Bioequivalence Studies of Delayed Release Dosage Forms of Proton Pump Inhibitors*  
**Dr. Rana Bustami**, General Manager, Pharmaceutical Research Unit, Jordan
- 11:20-11:45 **Title:** *Interference of Antidepressant Drug Fluoxetine with the Metabolism of Thyroid Hormones*  
**Dr. Stanislav Pavelka**, Associate Professor, Masaryk University, Czech Republic
- 11:45-12:10 **Title:** *Ligand-based Approaches for P450 Site of Metabolism Prediction*  
**Dr. Matthew J. Sykes**, Senior Lecturer in Chemistry, University of South Australia, Australia

### Part 3: Drug Delivery

#### Session 3-1: Breaking Research and Innovative DDS Technologies

*Time: 13:30-17:35, June 16, 2016 (Thursday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Xujin Lu**, Senior Principal Scientist, Bristol-Myers Squibb Company, USA
- Co-Chair** **Dr. Andrei Blasko**, Senior Fellow, Pharmaceutical and Analytical Development, Novartis Pharma, USA



- 13:30-13:35           **Chair's Introduction**
- 13:35-14:00        **Title:** *ViscoGel™ and Viscomulsion™, Two Novel Particulate Hydrogel Drug Delivery Systems Allowing for Tuning of Drug Release-and Biodegradation Rate*  
**Dr. Mats Andersson**, Founder and Chief Scientific Officer, ViscoGel AB, Sweden
- 14:00-14:25        **Title:** *Taste Masking Evaluation Using Simulated Saliva for Polymer Coated API in Pediatric Formulation Development*  
**Dr. Xujin Lu**, Senior Principal Scientist, Bristol-Myers Squibb Company, USA
- 14:25-14:50        **Title:** *Preformulation and Biopharmaceutical Support for Lung Delivery*  
**Dr. Andrei Blasko**, Senior Fellow, Pharmaceutical and Analytical Development, Novartis Pharma, USA
- 14:50-15:15        **Title:** *Maximising Patent Protection for Drug Delivery Technologies*  
**Mr. Mike Nelson**, Partner, HGF Limited, UK
- 15:15-15:30        **Coffee Break**
- 15:30-15:55        **Title:** *Development of High Drug Loaded Pellets by Design of Experiment, Population Balance Model Calculation and In-Process Control*  
**Dr. Bertram Wolf**, Professor, Anhalt University of Applied Sciences, Germany
- 15:55-16:20        **Title:** *Design and Selection of Appropriate Peptide-Drug-Conjugates for Target Drug Delivery*  
**Dr. Michael Firer**, Associate Professor, Ariel University, Israel
- 16:20-16:45        **Title:** *The Role of APOL1 Variants in the Development of Focal Segmental Glomerulosclerosis in South African Children with Idiopathic and HIV-Related Nephrotic Syndrome*  
**Dr. Rajendra Bhimma**, Associate Professor, University of KwaZulu-Natal, South Africa
- 16:45-17:10        **Title:** *Enhanced Skin Delivery of Resveratrol and Other Polyphenols by Microemulsions*  
**Dr. Shuji Kitagawa**, President, Kobe Pharmaceutical University, Japan
- 17:10-17:35        **Title:** *Effect of Excipients on Lag Time of Press Coated Tablets as Pulsatile Drug Delivery for the Treatment of Rheumatoid Arthritis*  
**Dr. Deepali Kaduskar**, Assistant Professor, NMIMS University, India

**Session 3-2: Novel Technologies for Biotherapeutic Drug Delivery**

*Time: 10:30-11:50, June 17, 2016 (Friday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair**               **Dr. Bruce Given**, COO, Arrowhead Research Corporation, USA
- 10:30-10:35        **Chair's Introduction**
- 10:35-11:00        **Title:** *Addressing RNAi Delivery Challenges Using a Modular, Ligand-Mediated Approach*  
**Dr. Bruce Given**, COO, Arrowhead Research Corporation, USA



- 11:00-11:25 *Title: Application of Trophic Biopolymer Matrix for Targeted Delivery of Antibacterial Nanoparticles*  
**Dr. Irina A. Shurygina**, Deputy Director, Irkutsk Scientific Center of Surgery and Traumatology, Russia
- 11:25-11:50 *Title: Combination of Vitamin-E Conjugation with Lipid Nanoparticle Formulation as a Novel Enteral Delivery Technology for a Systemic Liver Targeting of Therapeutic Oligonucleotides*  
**Dr. Chie Watanabe**, Assistant Professor, Osaka Ohtani University, Japan

### Session 3-3: Nanotechnologies for Drug Delivery Systems

Time: 08:30-11:05, June 18, 2016 (Saturday); Place: Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2

**Chair** **Mr. Sean Hall**, CEO, Medlab Clinical Ltd., Australia

08:30-08:35 **Chair's Introduction**

08:35-09:00 *Title: Redefining the Curve - Sustainable Compound Delivery Through Nanoparticles*

**Mr. Sean Hall**, CEO, Medlab Clinical Ltd., Australia

09:00-09:25 *Title: Nanotechnology-based Strategies for Targeted Drug Delivery in the Eye*

**Dr. Randolph D Glickman**, Professor, University of Texas Health Science Center, USA

09:25-09:50 *Title: Immunotoxicity, Immunogenicity of Nano-Drugs-Nano-Carriers; Testing the Phenomenon in a Sensitive Pig Model and Development of Prevention*

**Dr. Rudolf Urbanics**, Head, Semmelweis University & SeroScience Ltd., Hungary

09:50-10:15 *Title: Nano-drug Transporters: But What If Your Delivery Systems Turns Out to be an Active Pharmaceutical Ingredient?*

**Dr. Anthony W. Coleman**, Research Director, University of Lyon 1, France

10:15-10:40 *Title: A Few Strategies of Using Carbon Nanotubes as Smart Drug Delivery Systems. Insights into Mechanisms of Action from Molecular Dynamics Simulations*

**Dr. Tomasz Panczyk**, Associate Professor, Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Poland

10:40-11:05 *Title: Nanomedicines with Plant Bioactive Payload for the Treatment of Experimental Diabetes*

**Dr. Partha Roy**, Assistant Professor, Department of Pharmacy, Adamas University, India

### Session 3-4: Medical Devices for Drug Delivery, Surgery and Therapy

Time: 13:30-15:15, June 18, 2016 (Saturday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2

**Chair** **Dr. Hak Jong Lee**, Professor, Seoul National University, South Korea



- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** *Gene and Drug Delivery Using Ultrasound Contrast Agent*  
**Dr. Hak Jong Lee**, Professor, Seoul National University, South Korea
- 14:00-14:25 **Title:** *Human-healing Effects of Loess Balls Prepared by Fine Particle Design Technology and Its Application to Bio-Products*  
**Dr. Woo Sik Choi**, President, Korea Association of Powder Process Industry and Engineering (KAPPIE), South Korea
- 14:25-14:50 **Title:** *Next Generation Packaging: Stability of a Bisphosphonate Drug in SiOPlas™ Barrier Coated Vials*  
**Dr. Sandra L. True**, Senior Applications Scientist, SiO2 Medical Products, USA
- 14:50-15:15 **Title:** *Smart Inhalers- Improving Patient Compliance and Reducing Healthcare Cost*  
**Mr. Dana Shears**, Sales Director, Presspart, USA

## Part 4: Generics

### Session 4-1: Generics

*Time: 13:30-16:05, June 16, 2016 (Thursday); Place: Room No. 308, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Joseph P. Thomas**, Chair of the Life Sciences Group and Co-chair of the Litigation Department, Ulmer & Berne LLP, USA
- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** *Risk Mitigation Strategies in the Sale and Distribution of Generic Pharmaceutical Products in the U.S. Market*  
**Dr. Joseph P. Thomas**, Chair of the Life Sciences Group and Co-chair of the Litigation Department, Ulmer & Berne LLP, USA
- 14:00-14:25 **Title:** *The 'Single Place of Truth' Effective of Regulatory Information Management for Generics*  
**Dr. Olaf Schoepke**, Director of Strategic Development, Samarind Limited, UK
- 14:25-14:50 **Title:** *Brand vs. Generic: Strategic Considerations for Cross-Border Technology Transfer*  
**Dr. Qin Shi**, Managing Principal, EdgeTech Law LLP, USA
- 14:50-15:15 **Title:** *The Interaction between Chemical Composition, Particularly Glycans, and the Biological Function in Monoclonal Antibodies*  
**Dr. Daniel Galbraith**, Chief Scientist, Sartorius Stedim BioOutsource Ltd., UK
- 15:15-15:40 **Title:** *Norway, Biosimilars in Different Funding Systems. What Works?*  
**Dr. Asbjorn Mack**, Chief Negotiator Pharmaceuticals, LIS (Drug Procurement Cooperation), Norway
- 15:40-16:05 **Title:** *Biosimilar Epoetin a is as Effective as Originator Epoetin-A Plus Liposomal Iron (Sideral®), Vitamin B12 and Folates in Patients with Refractory Anemia: A Retrospective Real-Life Approach*  
**Dr. Giulio Giordano**, Hematologist, Medicine Department, Regional General Hospital "A.Cardarelli", Italy



## Part 5: Biologics Drugs

### Session 5-1: Biologics Drugs

Time: 08:30-12:10, June 17, 2016 (Friday); Place: Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2

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| <b>Chair</b> | <b>Dr. Jesus Zurdo</b> , Senior Director, Lonza Pharma & Biotech, UK  |
| 08:30-08:35  | <b>Chair's Introduction</b>   |
| 08:35-09:00  | <b>Title:</b> <i>CetuGEX™ and TrasGEX™ Biosuperior Antibodies for Improved Cancer Treatment</i><br><b>Dr. Lars Stockl</b> , Director, Glycotope GmbH, Germany   |
| 09:00-09:25  | <b>Title:</b> <i>Human Monoclonal Antibodies as Candidate Therapeutics Against Cancer and Viruses</i><br><b>Dr. Dimitar S. Dimitrov</b> , Senior Investigator, National Cancer Institute, NIH, USA  |
| 09:25-09:50  | <b>Title:</b> <i>Developability and Early Risk Assessment in Antibody and Biopharmaceutical Development: Towards a Holistic QbD Implementation</i><br><b>Dr. Jesus Zurdo</b> , Senior Director, Lonza Pharma & Biotech, UK  |
| 09:50-10:15  | <b>Title:</b> <i>A Revolutionary Strategy for Cancer Therapy: The Cancer Targeting Gene-Viro-Therapy</i><br><b>Dr. Xinyuan Liu</b> , Professor, Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China |
| 10:15-10:30  | <b>Coffee Break</b>   |
| 10:30-10:55  | <b>Title:</b> <i>Development of Peptide Drugs for Ocular Surface Disorders</i><br><b>Dr. Teruo Nishida</b> , Professor Emeritus, Yamaguchi University, Japan  |
| 10:55-11:20  | <b>Title:</b> <i>An RNA Aptamer Targeting Pancreatic Cancer: From AptaBID to Theronostics</i><br><b>Dr. Pooja Dua</b> , Research Professor, Sungkyunkwan University, South Korea  |
| 11:20-11:45  | <b>Title:</b> <i>Antisense Oligonucleotide (AON)-based Therapy for USH2A-associated Retina Degeneration</i><br><b>Dr. Erwin Van Wijk</b> , Assistant Professor, Radboud University Medical Center, The Netherlands  |
| 11:45 -12:10 | <b>Title:</b> <i>Bispecific Antibody: Preclinical Development of Novel Bispecific Antibody Targeting VEGF and DLL4</i><br><b>Dr. Weon-Kyoo You</b> , R & D Head, ABL BIO, South Korea   |

## Part 6: From Disease Clinical Research to Drug Development and Application

### Session 6-1: Metabolic Disorders

Time: 08:30-12:35, June 17, 2016 (Friday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2

|              |   |
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| <b>Chair</b> | <b>Dr. Barbara C. Hansen</b> , Professor and Director, University of South Florida, USA |
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- 08:30-08:35      **Chair's Introduction**
- 08:35-09:00      **Title:** *Essential or Primary Hypertension in Nonhuman Primates: Optimal Model for Pharmaceutical Proof of Concept Efficacy Evaluation*  
**Dr. Barbara C. Hansen**, Professor and Director, University of South Florida, USA
- 09:00-09:25      **Title:** *A Truly Non-Invasive Glucose Monitoring Device for Home Use -Finally Available!*  
**Mr. Avner Gal**, President & CEO, Integrity Applications Ltd., Israel
- 09:25-09:50      **Title:** *Innovative Method and Device for Non-invasive Glucose Measurement*  
**Dr. Zongyan He**, President and CTO, Novanex Inc., USA
- 09:50-10:15      **Title:** *Quantification of Hepatic Fat in Naturally-occurring Nonalcoholic Fatty Liver Disease (NAFLD) in Obese Rhesus Monkeys Using Dual-energy CT (DECT)*  
**Dr. Wen Zeng**, President and CEO, Sichuan Primed Bio-tech Group Co., Ltd., China
- 10:15-10:30      **Coffee Break**
- 10:30-10:55      **Title:** *Bioassay-guided Fractionation Approach Aimed at Identifying Plant Metabolites with Potential Effect on Type 2 Diabetes*  
**Dr. Lars P. Christensen**, Professor, Department of Chemical Engineering, Biotechnology and Environmental Technology, University of Southern Denmark, Denmark
- 10:55-11:20      **Title:** *Antioxidant and Anti-Inflammatory Effects of a Lipidic Extract of Lycopersicon Esculentum in a Hormonal Model of Benign Prostatic Hyperplasia in Obese Wistar Rats*  
**Dr. Juventino III Colado-Velazquez**, Professor of Pharmacology, Autonomous University of Sinaloa, Mexico
- 11:20-11:45      **Title:** *Mechanisms of Surgical Cure for Low BMI Type 2 DM*  
**Dr. Kyung Yul Hur**, Professor, Soonchunhyang University Hospital, South Korea
- 11:45-12:10      **Title:** *Serum Autoantibody Against Lens Crystallins in Dogs with and without Cataract*  
**Dr. Nobuyuki Kanemaki**, Professor, Veterinary Teaching Hospital, Azabu University, Japan
- 12:10-12:35      **Title:** *Relations between Adipokine Leptin and Thyroid Hormones Metabolism in White Adipose Tissue*  
**Dr. Stanislav Pavelka**, Associate Professor, Masaryk University, Czech Republic

### Session 6-2: Digestive System Diseases

*Time: 13:30-17:35, June 17, 2016 (Friday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2*

**Chair**                      **Dr. Chaodong Wu**, Associate Professor, Texas A & M University, USA





- 13:30-13:35 **Chair's Introduction**
- 13:35-14:00 **Title:** *The Role of the Alimentary Tract Mucosa Chloride Channel 2 (ClC-2) in Governing the Mucus and Mucin Secretion as Well as Luminal Lubrication*  
**Dr. Jerzy Sarosiek**, Professor, Texas Tech University Health Sciences Center, USA
- 14:00-14:25 **Title:** *A New Dinucleotide Protects Against Obesity-Associated Fatty Liver Disease*  
**Dr. Chaodong Wu**, Associate Professor, Texas A & M University, USA
- 14:25-14:50 **Title:** *Non-invasive Tests and Current Treatment Options of Non-Alcoholic Fatty Liver Disease*  
**Dr. Monjur Ahmed**, Associate Professor, Thomas Jefferson University, USA
- 14:50-15:15 **Title:** *Albendazol before Surgery in Hydatid Cyst: Result of Moroccan Experience*  
**Dr. Mouna Alaoui**, Professor, Ibn Sina University Hospital, Morocco
- 15:15-15:30 **Coffee Break**
- 15:30-15:55 **Title:** *New Pharmacological Approach for Comorbid Functional Gastrointestinal Disorders*  
**Dr. Oksana V. Kravivnaya**, Head, Gastroenterological Department of Non-state Healthcare Institution, «Khabarovsk-1 Station Railway Clinical Hospital» JSC «Russian Railways», Russia
- 15:55-16:20 **Title:** *Prevention of Parastomal Hernia*  
**Mr. Yiu Ming Ho**, General Surgeon, Logan Hospital, Australia
- 16:20-16:45 **Title:** *Orphenadrine: A New and Affordable Cure for Muscle Cramps in Cirrhotic Patients*  
**Dr. Sherief Abd-Elsalam**, Lecturer, Tanta University Hospital, Egypt
- 16:45-17:10 **Title:** *Effect of Hydrogen-Rich Water on Non-Alcoholic Fatty Liver Disease via Nrf2 Signaling Pathway*  
**Dr. Xiang Wang**, Attending Doctor, The First Affiliated Hospital of Zhengzhou University, China
- 17:10-17:35 **Title:** *Monomer Components Sieved from Clear Effective Chinese Medicine Can Accelerate the Development Process of Specific Diseases Drug*  
**Dr. Jinyi Zhao**, Deputy Director, Pharmacy Department, Xijing Hospital, China

### Session 6-3: Muscle, Joint and Bone Disorders

Time: 08:30-09:50, June 18, 2016 (Saturday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2

**Chair** **Dr. Gabor Major**, Director of Rheumatology, Hunter New England Health Service, Australia

08:30-08:35 **Chair's Introduction**



- 08:35-09:00 **Title:** *The Fragility Fracture Cascade. Evidence that a Fracture Liaison Service Bridges the Gap in Treatment Delivery and Reduces Refracture Risk*  
**Dr. Gabor Major**, Director of Rheumatology, Hunter New England Health Service, Australia
- 09:00-09:25 **Title:** *Dishevelled-Idbf Interaction, A New Negative Feedback Mechanism of the Wnt/b-catenin Pathway, is a Novel Target for Osteoporosis Drug Development*  
**Dr. Kang-Yell Choi**, Professor, Department of Biotechnology, Yonsei University, South Korea
- 09:25-09:50 **Title:** *The Approach of Interventional Techniques in Chronic Spinal Pain at Rio de Janeiro Federal University Pain Clinic: An Earlier Use*  
**Dr. Ricardo Joaquim da Cunha Jr.**, Professor, Federal University of Rio de Janeiro, Brazil

#### Session 6-4: Infection Diseases (Part I)

*Time: 10:00-11:45, June 18, 2016 (Saturday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Chien-Te K. Tseng**, Associate Professor, Department of Microbiology and Immunology, University of Texas Medical Branch, USA
- 10:00-10:05 **Chair's Introduction**
- 10:05-10:30 **Title:** *Cross Talks of Drug Resistance and Virulence in Human Pathogen *Candida Albicans**  
**Dr. Yun-Liang Yang**, Professor, National Chiao Tung University, Taiwan
- 10:30-10:55 **Title:** *Characterization and Demonstration of a Value of a Lethal Mouse Model of Middle East Respiratory Syndrome Coronavirus Infection and Disease*  
**Dr. Chien-Te K. Tseng**, Associate Professor, Department of Microbiology and Immunology, University of Texas Medical Branch, USA
- 10:55-11:20 **Title:** *Present Day Challenges of HIV in Sri Lanka*  
**Dr. Sathya Herath**, Public Health Specialist, National STD/AIDS Control Program, Sri Lanka
- 11:20-11:45 **Title:** *Frequency of Human Papilloma Virus (HPV) Subtypes 31,33,35,39 and 45 among Yemeni Women with Cervical Cancer*  
**Dr. Saleh Hussein Bensumaidea**, Lecturer, Hadhrmout University of Science & Technology, Yemen

#### Session 6-4: Infection Diseases (Part II)

*Time: 13:30-16:05, June 18, 2016 (Saturday); Place: Room No. 306, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Herve Le Moual**, Associate Professor, McGill University, Canada
- 13:30-13:35 **Chair's Introduction**



- 13:35-14:00 *Title: Bacterial Outer-membrane Proteases of the Omptin Family as Novel Therapeutic Targets.*  
**Dr. Herve Le Moual**, Associate Professor, McGill University, Canada
- 14:00-14:25 *Title: New Global Approach to Find Novel Antimicrobials*  
**Dr. Johannes Zuegg**, Senior Researcher, Institute for Molecular Bioscience, University of Queensland, Australia
- 14:25-14:50 *Title: Lessons from Biologically Active Natural Products-Discovery of New Growth Factors for Previously Uncultured Leucobacter sp.*  
**Dr. Makoto Ubukata**, Professor, Hokkaido University, Japan
- 14:50-15:15 *Title: Novel Zebrafish Egg Bath Infection Model for Screening Antifungal Drugs*  
**Dr. Hsiu-Jung Lo**, Investigator, National Health Research Institutes, Taiwan
- 15:15-15:40 *Title: Hepatitis C Virus Resistance to Direct Antiviral Drugs*  
**Dr. Andrea Duchini**, Gastroenterologist and Hepatologist, Houston Methodist Hospital, USA
- 15:40-16:05 *Title: Consequences of Meticillin-resistant Staphylococcus Aureus Acquisition*  
**Dr. Eva Skyman**, Lecturer, Sahlgrenska Academy, University of Gothenburg, Sweden

#### Session 6-5: Cardiovascular Diseases

Time: 15:30-16:50, June 18, 2016 (Saturday); Place: Room No. 305, 3<sup>rd</sup> Floor, KINTEX 2

- Chair** **Dr. Shaodong Guo**, Associate Professor, Department of Nutrition and Food Science, Texas A & M University, USA
- 15:30-15:35 **Chair's Introduction**
- 15:35-16:00 *Title: Insulin Resistance and Heart Failure: A Central Signaling of IRS in Control of Cardiac Metabolism and Survival*  
**Dr. Shaodong Guo**, Associate Professor, Department of Nutrition and Food Science, Texas A & M University, USA
- 16:00-16:25 *Title: Fighting the Devil of Stroke in Atrial Fibrillation: The New Weapons in the Armory*  
**Dr. Prabhask Chand Manoria**, Director, Manoria Heart and Critical Care Hospital, India
- 16:25-16:50 *Title: Riociguat for the Treatment of Pulmonary Hypertension (PH)*  
**Dr. Gerald Simonneau**, Professor, Paris-Sud University, France

#### Session 6-6: Other Diseases

Time: 13:30-15:15, June 18, 2016 (Saturday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2

- Chair** **Dr. Seung-Yong Seong**, Professor, Seoul National University College of Medicine, South Korea
- 13:30-13:35 **Chair's Introduction**



- 13:35-14:00 **Title:** *GPCR19 Agonist for Atopic Dermatitis*  
**Dr. Seung-Yong Seong**, Professor, Seoul National University College of Medicine, South Korea
- 14:00-14:25 **Title:** *A Truly Globalized CTD: The 3-Layer Approach*  
**Dr. Nobushige Matsuoka**, Statistician, Pfizer Japan Inc., Japan
- 14:25-14:50 **Title:** *HLA DRB1\* and DQB1\* Alleles are Associated with Disease Severity in Patients with Pemphigus Vulgaris*  
**Dr. Danka Svecova**, Professor, Comenius University, Slovakia
- 14:50-15:15 **Title:** *Drug Delivery in Anterior Segments of Eye*  
**Dr. Young Joo Shin**, Associate Professor, Hallym University, South Korea

### Young Scientist Forum

*Time: 15:50-16:45, June 18, 2016 (Saturday); Place: Room No. 307, 3<sup>rd</sup> Floor, KINTEX 2*

- Chair** **Dr. Jacob Lauwring Andersen**, Postdoctoral Researcher, Aarhus University, Denmark
- 15:50-15:55 **Chair's Introduction**
- 15:55-16:20 **Title:** *Structure-based Development of Covalent Allosteric Inhibitors of Protein Kinases*  
**Dr. Jacob Lauwring Andersen**, Postdoctoral Researcher, Aarhus University, Denmark
- 16:20-16:45 **Title:** *Development of a Chemically Defined in vitro Culture System to Effectively Stimulate the Proliferation of Adult Human Dermal Fibroblasts*  
**Mr. Min Seong Kim**, Ph.D. Student, Kangwon National University, South Korea

