11TH WORLD DRUG DELIVERY SUMMIT
October 16-18, 2017    Baltimore, USA
Day 1  October 16, 2017

08:30-09:30 Registrations

Conference Hall-Greenspring4

10:00-10:20  Opening Ceremony

Keynote Forum

10:20-10:30  Introduction

10:30-11:00  Title: Conjugates of γ-carbolines and phenothiazine as new multitarget inhibitors of butyrylcholinesterase and blockers of NMDA receptors for Alzheimer disease
Gjumrakch Aliev, GALLY International Biomedical Research Consulting LLC., USA

11:00-11:30  Title: Nanomaterials in regenerative medicine and cancer therapy
Esmaiel Jabbari, University of South Carolina, USA

Group Photo

11:45-12:15  Title: Lipid nanoparticles for delivery of therapeutic oligonucleotides
Robert J Lee, The Ohio State University, USA

12:15-12:45  Title: Challenges in evaluation of nanomedicine pharmacokinetics and generic bioequivalence
Stephan Stern, Nanotechnology Characterization Lab, USA

Sessions:
Smart Drug Delivery Systems | Pharmaceutical Nanotechnology | Drug Delivery Technology | Drug Targeting and Design | Major Challenges in Drug Delivery | Recent Advances in Drug Delivery

Session Chair: Esmaiel Jabbari, University of South Carolina, USA
Session Co-Chair: Qing Li, MedImmune, USA

12:45-13:05  Title: Immunological properties of nanotechnology-based complex drug formulations and challenges in their preclinical characterization
Marina A Dobrovolskaia, Nanotechnology Characterization Lab, USA

Panel Discussion
Lunch Break 13:05-13:55 @ Atrium Upper

13:55-14:15  Title: Understanding the impact of PEGylation on pharmacokinetic and biophysical properties of PEGylated diabody
Qing Li, MedImmune, USA

14:15-14:35  Title: Myocardial drug distribution following epicardial drug delivery: Potential impact of cardiac capillary perfusion in a swine model
Maslov M Y, Tufts University School of Medicine, USA

14:35-14:55  Title: Bioavailability enhancement using submicron particles
Maura Murphy, iCeutica Operations LLC, USA

14:55-15:15  Title: Future of biomarkers in drugs, biologics, and device development: A US FDA initiative
Nina Mezu-Nwaba, United States Food and Drug Administration, USA

15:15-15:35  Title: The oral bioavailability behavior of AuNPs conjugated with Chitosan
Ahmed Alalaiwe, Prince Sattam Bin Abdulaziz University, Saudi Arabia

15:35-15:55  Title: Investigation of BBN-HPMA conjugates for targeting Gastrin Releasing-Peptide (GRPR) Receptor
Sameer Alshehri, University of Nebraska Medical Center, USA

Panel Discussion
Networking & Refreshment Break 16:15-16:30 @ Alcove1
Day 2  October 17, 2017
Conference Hall-Greenspring4

### Keynote Forum

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:00-10:30</td>
<td>Delivery of peptides by non-invasive routes: Focus on successful oral technologies progressing in the clinic and future challenges</td>
<td>Joël Richard, IPSEN, France</td>
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<td>10:30-11:00</td>
<td>Peptide PEGylation strategies for drug development</td>
<td>Kang Choon Lee, SungKyunKwan University, South Korea</td>
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### Panel Discussion

#### Networking & Refreshment Break 11:00-11:15 @ Alcove1

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<tbody>
<tr>
<td>11:15-11:45</td>
<td>What is happening in GI tract? – Recent progress in formulation technologies for oral delivery of poorly soluble drugs</td>
<td>Kohsaku Kawakami, National Institute for Materials Science, Japan</td>
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<tr>
<td>11:45-12:15</td>
<td>Lipid nanocapsules: A new platform for oral drug delivery system</td>
<td>Emilie Roger, Université d'Angers, France</td>
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### Sessions:

- Routes of Drug Administration
- Novel Drug Delivery Systems
- Peptide and Protein Drug Delivery
- Drug Targeting and Design
- Nucleic Acid Based Drug Delivery

#### Session Chair: Robert J Lee, The Ohio State University, USA
#### Session Co-Chair: L A Avila, Auburn University, USA

#### Session Introduction

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<tr>
<td>12:15-12:35</td>
<td>Nature-inspired multilayered capsules based on stimuli-responsive polymers: A new design for the multi-step release of drugs</td>
<td>Srinivasa R Raghavan, University of Maryland, USA</td>
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<td>12:35-12:55</td>
<td>Delivery of lethal dsRNAs in insect diets by branched amphiphilic peptide capsules</td>
<td>L A Avila, Auburn University, USA</td>
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<td>12:55-13:15</td>
<td>CCK-B targeted PEG-poly (L-Lysine) polypelex micelle for the effective delivery of gastrin siRNA to the pancreatic cancer</td>
<td>Abdullah Mahmud, Nanotechnology Characterization Lab, USA</td>
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#### Lunch Break 13:15-14:05 @ Atrium Upper

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<tbody>
<tr>
<td>14:05-14:25</td>
<td>Physicochemical properties and in vitro cytotoxicity evaluation of polymer-drug conjugates for combination therapy</td>
<td>Blessing Aderibigbe, University of Fort Hare, South Africa</td>
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#### Panel Discussion

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<td>14:25-14:45</td>
<td>Multiparticulate drug delivery systems for Parkinson´s disease</td>
<td>Emilia Barcia, Universidad Complutense, Spain</td>
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<td>14:45-15:05</td>
<td>Ocular and plasmic dexamethasone distribution following controllable continuous sub-tenon drug delivery in rabbit</td>
<td>Ding Lin, Central South University, China</td>
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<td>15:05-15:25</td>
<td>Study of delayed-release of carboxyfluorescein from liposome-loaded chitosan physical hydrogels</td>
<td>Soline PEERS, Ingénierie des Matériaux Polymères, France</td>
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<td>15:25-15:45</td>
<td>A new methodology in drug delivery</td>
<td>Mehran Ghiaci, Isfahan University of Technology, Iran</td>
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<td>15:45-16:05</td>
<td>Stability-indicating HPTLC method for simultaneous determination of Ketoprofen, methyl paraben and propyl paraben in gel formulation</td>
<td>Pallavi Mangesh Patil, P.E. Society’s Modern College of Pharmacy, India</td>
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#### Panel Discussion

#### Networking & Refreshment Break 16:05-16:15 @ Alcove1
Day 3        October 18, 2017
Hall-Foyer
Poster Presentations @ 10:00-12:00

FR 01  
Title: Pharmacokinetics of a doxorubicin loaded porphyrin-phospholipid liposome in wistar rats  
Sarah Skoczen, Nanotechnology Characterization Lab, USA

FR 02  
Title: Controlled-release macromolecular prodrug platform for targeting scavenger receptor A1  
David Stevens, Nanotechnology Characterization Lab, USA

FR 03  
Title: Study co-aggregations of nucleic acid nanostructures with tetracycline molecules and their potential applications in smart drug delivery  
Nouf Alzahrani, Rutgers University, USA

FR 04  
Title: Formulation of a natural Intraoral Dispersible Film (IDF) for intraoral delivery of various natural drugs using edible rice paper film as the carrier vehicle  
Mukasa Eliphaz, University of the Witwatersrand, South Africa

FR 05  
Title: Controllable continuous sub-tenon drug delivery of dexamethasone disodium phosphate to ocular posterior segment in rabbit  
Xuetao Huang, Central South University, China

FR 06  
Title: Nitric oxide-releasing self-assembled nanoparticles as a chemo sensitizing agent for improved anticancer activity  
Kyung Hyun Min, Kyung Hee University, Republic of Korea

FR 07  
Title: The comparison of the effect of experimental Staphylococcus aureus endophthalmitis of different CFU counting  
Yi-qin Duan, Central South University, China

FR 08  
Title: Application of one and two dimensional NMR techniques in drug delivery experiments  
Koppány Kovács, University of Debrecen, Hungary

FR 09  
Title: Targeting of therapeutic agents to the brain based on liposomes: A new method to control and improve the symptoms of Parkinson’s disease  
Meygal Kahana, Rappaport Faculty of Medicine, Israel

FR 10  
Title: The effect of dyes on the interaction of HSA with monoclonal antibody  
Sándor Viski, University of Debrecen, Hungary

FR 11  
Title: Current regulatory trends and applicability of biomarkers in drugs, biologics and devices: A US FDA Outlook  
Nina Mezu-Nwaba, United States Food and Drug Administration, USA

Thanks Giving & Closing Ceremony
Panel Discussion
Lunch Break 12:00-13:00 @ Atrium Upper