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Scientific Program



Exhibitors

PALL ForteBio®

Sericin+ SILK INSPIRED SKINCARE

Joint Conference

3rd International Conference on

# Antibodies, Bio Therapeutics & B2B

&

# Genetic and Protein Engineering

November 08-09, 2017 | Las Vegas, USA


**Conferenceseries LLC - America**

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## Day 1 November 08, 2017

**08:30-09:00 Registrations**

### Conference Hall - Rainbow Room

conferenceseries.com **09:00-09:25** **Opening Ceremony**

## Keynote Forum

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

**09:30-10:00** **Title: Digital biomanufacturing supports mAb production**
**William Whitford**, GE Healthcare, USA

**10:00-10:30** **Title: Engineering a 30-year-old intracellular channel: Twitching a voltage sensor with a taste of pharmacology**
**Robert M Stroud**, University of California San Francisco, USA

## Panel Discussion

**Sessions:**
**Antibody Engineering | Antibodies: Medical Applications | Immunotherapy and Immune Checkpoints | Protein Engineering | Genetic Engineering**

**Session Chair: William Whitford**, GE Healthcare, USA

**Session Co-Chair: Itai Benhar**, Tel Aviv University, Israel

**10:30-10:55** **Title: The gene expression evidence-base and its relevance to translational applications including prevention**
**Ron L Martin**, Nutrigenetics Unlimited, Inc., USA

## Panel Discussion

**Group Photo**

**B2B, Networking & Refreshment Break 10:55-11:15 @ Foyer**

**11:15-11:40** **Title: Nano-assembly of amyloid β peptide: Role of the hairpin fold**
**Yuri L. Lyubchenko**, University of Nebraska Medical Center, USA

**11:40-12:05** **Title: *De novo* design and characterization of circular tandem repeat proteins**
**Barry L Stoddard**, Fred Hutchinson Cancer Research Center, USA

**12:05-12:30** **Title: BioTethering: A novel approach to engineering therapeutics proteins**
**Erik D Foehr**, BioTether Sciences, USA

**12:30-12:55** **Title: Endotoxin reduction in protein solutions using octyl β-D-1-thioglucopyranoside wash on chromatography media**
**Dhanesh Gadre**, MedImmune LLC, USA

## Panel Discussion

**B2B, Meet the Exhibitor & Lunch Break 12:55-13:45 @ Renaissance III**

**13:45-14:10** **Title: High-level soluble expression, purification and characterization of active human midkine from *Escherichia coli***
**Kelly Yan**, Novartis Institutes for BioMedical Research, USA

**14:10-14:35** **Title: Novel signal peptides improve the secretion of recombinant *Staphylococcus aureus* Alpha toxin$_{H35L}$ in *Escherichia coli***
**Soojin Han**, MedImmune LLC, USA

**14:35-15:00** **Title: Histocompatibility leukocyte antigens specific antibodies: Characteristics, detection, and clinical relevance**
**Andrew L Lobashevsky**, Indiana University, USA

**15:00-15:25** **Title: A modular platform for targeted RNAi therapeutics using biologically-lipidated antibodies**
**Itai Benhar**, Tel Aviv University, Israel

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| 15:25-15:50 | **Title: ProxiMAX randomization: Precision antibody engineering**<br>**Anna V Hine,** Aston University, UK |
| 15:50-16:15 | **Title: Design of PDZ domain specificity**<br>**Ernesto J Fuentes,** University of Iowa, USA |

**Panel Discussions**

**B2B, Meet the Exhibitor, Networking & Refreshment Break 16:15-16:45 @ Foyer**

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| 16:45-17:10 | **Title: Polymorphism and asymmetry in crystal structures of three aspartate transcarbamoylase "activated-state" holoenzyme variants: Implications for the mechanism of allosteric control by ATCase**<br>**James A. Endrizzi,** SuperNova C, USA |
| 17:10-17:35 | **Title: Improved illumina sequencing by polymerase engineering**<br>**Seth McDonald,** Illumina, Inc., USA |
| 17:35-18:00 | **Title: Immunological detection of antibiotic residues using antibody engineering**<br>**Xiaoying Zhang,** Northwest Agriculture and Forestry University, China |
| 18:00-18:25 | **Title: Engineering Tn5 transposase enzyme to improve DNA sequencing library preparation**<br>**Amirali Kia,** Illumina Inc., USA |

**Panel Discussions**

**Young Research Forum**

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| 18:25-18:45 | **Title: PD-L1 assays: An update on FDA-approvals and uses with companion immunotherapies**<br>**Steven Alexander Mann,** Indiana University School of Medicine, USA |
| 18:45-19:05 | **Title: Mathematical modeling of purified L-asparaginase activity from axenic cultures of *Actinobacteria* isolated from the Arauca riverbank**<br>**Estefanía Arévalo-Tristancho,** University of La Sabana, Colombia |

**Panel Discussion**

## Day 2 November 09, 2017

### Conference Hall - Rainbow Room

## Keynote Forum

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| 10:00-10:30 | **Title: Intrinsically disordered proteins link alternative splicing and post-translational modifications to complex cell signaling and regulation**<br>**A Keith Dunker,** Indiana University , USA |
| 10:30-11:00 | **Title: The protein folding problem: An optimization approach**<br>**Abdellah Salhi,** University of Essex, UK |

**Panel Discussions**

**B2B, Meet the Exhibitor, Networking & Refreshment Break 11:00-11:20 @ Foyer**

**Sessions:**
**Antibody Engineering | Antibodies: Medical Applications | Immunotherapy and Immune Checkpoints | Antibody Drug Therapy | Bio Therapeutics: Novel Formulation and Delivery Approaches | Protein Engineering | Genetic Engineering**

**Session Chair: Christopher H Gray,** CRUK Beatson Institute, UK

**Session Co-Chair: Karen Bunting,** Albumedix Ltd, UK

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| 11:20-11:45 | **Title: Engineering linkage-specific polyubiquitin antibodies as tools for elucidation of novel signaling pathways**<br>**Marissa L Matsumoto,** Genentech, Inc., USA |
| 11:45-12:10 | **Title: A rationally designed mutant of plasma platelet-activating factor acetylhydrolase hydrolyzes the organophosphorus nerve agent soman**<br>**Stephen D Kirby,** U.S. Army Medical Research Institute of Chemical Defense, USA |
| 12:10-12:35 | **Title: Harnessing and enhancing the natural properties of albumin as a drug carrier by rational protein engineering**<br>**Karen Bunting,** Albumedix Ltd., UK |

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| 12:35-13:00 | **Title: Accelerating protein production: High efficiency tags, fusions and automated purification**<br>**Christopher H Gray,** CRUK Beatson Institute, UK |
| | **Panel Discussion** |
| | **B2B, Meet the Exhibitor & Lunch Break 13:00-13:50 @ Renaissance III** |
| 13:50-14:15 | **Title: Purification and characterization of antibody therapeutics: Challenges and solutions during lead candidate selection**<br>**Haiyan Jiang,** Janssen BioTherapeutics, USA |
| 14:15-14: 40 | **Title: Antibody development updates for users of bio-layer interferometry kinetics comparison to SPR and high-throughput quantitation of bioprocess residuals**<br>**Jeff Mihailoff,** Pall ForteBio LLC, USA |
| 14:40-15:05 | **Title: Developing and manufacturing the next generation of bioconjugates**<br>**Thomas Rohrer,** Lonza Pharma & Biotech, USA |
| 15:05-15:30 | **Evolution of Bt proteins overcomes Bt resistance in insects**<br>**Victor Guzov,** Monsanto Company, USA |
| 15:30-15:55 | **Title: Predicting, avoiding and mitigating risk of failure when developing biotherapeutics**<br>**Yvette Stallwood,** Lonza Biologics, UK |
| 15:55-16:20 | **Title: Antibodies against retinal antigens as promising options for diagnosis and treatment of neurodegenerative diseases such as Glaucoma**<br>**Franz Grus,** Johannes Gutenberg University, Germany |
| | **Panel Discussions** |
| | **B2B, Meet the Exhibitor, Networking & Refreshment Break 16:20-16:50 @ Foyer** |
| 16:50-17:15 | **Title: ProxiMAX and MAX randomization: Precision protein engineering**<br>**Anna V Hine,** Aston University, UK |
| 17:15-17:40 | **Title: Antibody hit discovery using yeast surface display**<br>**Stefan Zielonka,** Merck KGaA (EMD Serono), Germany |
| 17:40-18:05 | **Title: The value of the serum antibodies detection for the diagnosis of human hydatidosis**<br>**Lia Monica Junie,** Iuliu Hatieganu University of Medicine and Pharmacy, Romania |
| 18:05-18:30 | **Title: Association mapping for drought toleranc and fruit yield in cultivated and related species of tomato (*solanum* spp.)**<br>**D L Savithramma,** University of Agricultural Sciences, India |
| | **Panel Discussion** |
| | **Poster Sessions 18:30-19:00 @ Foyer** |
| P 01 | **Comparison of three human B cell isolation tools for the development of the antibodies neutralizing emerging infectious viruses**<br>**Hansaem Lee,** Korea Centers for Disease Control & Prevention, Republic of Korea |
| P 02 | **Selection and characterization of MERS-CoV spike antibodies from Korean MERS recovered proteins**<br>**Hye-Min Woo,** Korea Centers for Disease Control & Prevention, Republic of Korea |
| P 03 | **Integrated workflow for rapid and low-cost affinity purification of recombinant proteins**<br>**Robert Snyder,** Proteios LLC, USA |
| P 04 | **Characterization of the *Bgs13* protein's role in the super-secretion of recombinant peptides in the yeast *Pichia pastoris***<br>**Geoff P Lin-Cereghino,** University of the Pacific, USA |
| P 05 | **Repurposing dasatinib for ibrutinib-resistant diffuse large B-Cell lymphoma**<br>**Sandeep Mittan,** Columbia University Medical Center, USA |
| P 06 | **Production of enzymatically active human SKIP for the development of tools to study phosphatidylinositol signaling pathways**<br>**Somer L Doody,** Innovabio, USA |
| | **Panel Discussion** |
| | **Award Ceremony & Best Poster Award Sponsored by Pall ForteBio LLC** |
| | **Exhibition Timings** |
| | **Starts at 09:00** |
| | **Ends at 19:00** |
| | **Thanks giving & Closing Ceremony** |