Joint Conference
3rd International Conference on

Antibodies, Bio Therapeutics & B2B
&
Genetic and Protein Engineering

November 08-09, 2017 | Las Vegas, USA
## Day 1  November 08, 2017

### 08:30-09:00 Registrations

### Conference Hall - Rainbow Room

#### Opening Ceremony

09:00-09:25

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#### 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

**09:30-11:15**  
**Panel Discussion**  
**Group Photo**  
**B2B, Networking & Refreshment Break 10:55-11:15 @ Foyer**

**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

**11:15-12:05**  
**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: De novo design and characterization of circular tandem repeat 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

**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 \(_{\text{H33L}}\) 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
15:25-15:50  Title: ProxiMAX randomization: Precision antibody engineering  
Anna V Hine, Aston University, UK

15:50-16:15  Title: Design of PDZ domain specificity  
Ernesto J Fuentes, University of Iowa, USA

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

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  
James A. Endrizzi, SuperNova C, USA

17:10-17:35  Title: Improved illumina sequencing by polymerase engineering  
Seth McDonald, Illumina, Inc., USA

17:35-18:00  Title: Immunological detection of antibiotic residues using antibody engineering  
Xiaoying Zhang, Northwest Agriculture and Forestry University, China

Title: Engineering Tn5 transposase enzyme to improve DNA sequencing library preparation  
Amirali Kia, Illumina Inc., USA

Panel Discussions
Young Research Forum

18:25-18:45  Title: PD-L1 assays: An update on FDA-approvals and uses with companion immunotherapies  
Steven Alexander Mann, Indiana University School of Medicine, USA

Title: Mathematical modeling of purified L-asparaginase activity from axenic cultures of Actinobacteria isolated from the Arauca riverbank  
Estefanía Arévalo-Tristancho, University of La Sabana, Colombia

Panel Discussion
Day 2 November 09, 2017
Conference Hall - Rainbow Room

Keynote Forum

10:00-10:30  Title: Intrinsically disordered proteins link alternative splicing and post-translational modifications to complex cell signaling and regulation  
A Keith Dunker, Indiana University, USA

10:30-11:00  Title: The protein folding problem: An optimization approach  
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

11:20-11:45  Title: Engineering linkage-specific polyubiquitin antibodies as tools for elucidation of novel signaling pathways  
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  
Stephen D Kirby, U.S. Army Medical Research Institute of Chemical Defense, USA

12:10-12:35  rational protein engineering  
Karen Bunting, Albumedix Ltd., UK
12:35-13:00
Title: Accelerating protein production: High efficiency tags, fusions and automated purification
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
Haiyan Jiang, Janssen BioTherapeutics, USA
Title: Antibody development updates for users of bio-layer interferometry kinetics
Jeff Mihailoff, Pall ForteBio LLC, USA

14:15-14:40
Title: Developing and manufacturing the next generation of bioconjugates
Thomas Rohrer, Lonza Pharma & Biotech, USA
Title: Comparison to SPR and high-throughput quantitation of bioprocess residuals
Jeff Mihailoff, Pall ForteBio LLC, USA

Panel Discussion
B2B, Meet the Exhibitor, Networking & Refreshment Break 16:20-16:50 @ Foyer

16:50-17:15
Title: ProxiMAX and MAX randomization: Precision protein engineering
Anna V Hine, Aston University, UK

17:15-17:40
Title: Antibody hit discovery using yeast surface display
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
Lia Monica Junie, Iuliu Hatieganu University of Medicine and Pharmacy, Romania
Title: Association mapping for drought tolerance and fruit yield in cultivated and related species of tomato (solanum spp.)
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
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
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
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
Geoff P Lin-Cereghino, University of the Pacific, USA

P 05
Repurposing dasatinib for ibrutinib-resistant diffuse large B-Cell lymphoma
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
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