SUNDAY • MARCH 9, 2014			
3:30 pm – 6:30 pm	**Welcome Reception, plus Exhibit and Poster Setup at the Mead Center**		
MONDAY • MARCH 10, 2014			
7:00 am – 8:00 am	**Registration and Breakfast in the Exhibit Area, plus Exhibit and Poster Setup**		
8:00 am – 8:30 am	**Meeting Overview in Kogod Cradle**		
	Baculovirus Expression Technology Kogod Cradle *View Speaker Abstracts & Bios*	**Cellular Therapies** Classroom *View Speaker Abstracts & Bios*	**Viral Vectors and Vaccines** Rehearsal Studio *View Speaker Abstracts & Bios*
8:30 am – 9:15 am	**Donald L. Jarvis, PhD** • University of Wyoming *Advanced Recombinant Glycoprotein Production in the Baculovirus-Insect Cell System*	**Harry L. Malech, MD** • NIH National Institute of Allergy and Infectious Diseases (NIAID) – *Generation of Neutrophils and Monocytes from Induced Pluripotent Stem Cells: Potential Therapeutic Utility*	**Yvonne Genzel, PhD** • Max-Planck-Institute for Dynamics of Complex Technical Systems – *New Cell Substrates for Virus and Viral Vector Production*
9:15 am – 10:00 am	**Amine A. Kamen, PhD** • McGill University – *High Cell Density Insect Cell Culture as a New Generation Process for Manufacturing Viral Vectors and Vaccines*	**Jessica L. Lo Surdo, PhD** • FDA CBER *Toward Improved Characterization of Stem Cells for Use in Cellular Therapies: Quantitative Approaches to Better Assess Quality Attributes*	**Robert M. Kotin, PhD** • Voyager Therapeutics *Progress Report on Systemic Delivery of rAAV9-U7 Vector in the Golden Retriever Muscular Dystrophy Canine Model of Duchenne Muscular Dystrophy*
10:00 am – 10:30 am	**Morning Break in the Exhibit Area**		
10:30 am – 11:00 am	**Technology Workshops:**	**Aldevron**	**InDevR**
11:00 am – 11:30 am		**Expression Systems, LLC**	**BIA Separations**
11:30 am – 12:00 noon			**Novasep**
12:00 noon – 1:30 pm	**Lunch in the Exhibit Area (Poster Presentations** from 1:00 pm – 1:30 pm)		
1:30 pm – 2:15 pm	**Gale E. Smith, PhD** • Novavax, Inc. – *Development of an Insect Cell Derived Influenza A(H7N9) Virus-Like Particle (VLP) Vaccine: From Gene to Man*	**Madhusudan V. Peshwa, PhD** • MaxCyte Inc. *Translational Development of Messenger RNA Encoded Chimeric Antigen Receptor Engineered Onco-Immunotherapies*	**Denise K. Gavin, PhD** • FDA CBER *Regulatory Considerations for Adeno-Associated Viruses*
2:15 pm – 3:00 pm	**Loy E. Volkman, PhD** • University of California, Berkeley – *The Twist to Baculovirus Replication and Hyperexpression*	**Dale Ando, MD** • Sangamo BioSciences, Inc. *Reconstituting HIV Immunity with CCR5 Modified Autologous CD4 T Cells to Eradicate HIV*	**Amine A. Kamen, PhD** • McGill University *Influenza Vaccine Manufacturing Technologies: Antigens and Expression Systems Comparison*
3:00 pm – 3:30 pm	**Afternoon Break in the Exhibit Area**		
3:30 pm – 4:15 pm	**Arifa S. Khan, PhD** • FDA CBER *Challenges of Novel Virus Detection in Vaccine Cell Substrates*	**Racheli Ofir, PhD** • Pluristem Therapeutics Inc. *PLX, Placental-Derived Adherent Stromal Cells – Manufacturing and Properties*	**Victor Lu, PhD** • FDA CBER *Regulatory Considerations for Lentiviral Vectors for Human Use*
4:15 pm – 5:00 pm	**Charles Richardson, PhD** • Takeda Pharmaceuticals U.S.A., Inc. – *Scale-Up and Manufacturing of Norovirus Virus-Like Particles*	**Bruce L. Levine, PhD** • University of Pennsylvania *Chimeric Antigen Receptor (CAR) Modified T Cells Targeted Against Cancer: CAR Delivery and Clinical Update*	**J. Fraser Wright, PhD** • The Children's Hospital of Philadelphia – *Advancing Gene Therapy Product CMC Through Late Stage Clinical Development*
5:00 pm – 5:45 pm	**Panel Discussion in Kogod Cradle: Potential and Pitfalls for Cellular, VLP, and Gene Vector Vaccines** • **Daniel Takefman, PhD** • FDA CBER • **Robin Levis, PhD** • FDA CBER • **Robin A. Robinson, PhD** • FDA HHS • **Phillip B. Maples, PhD** • Laurus Bio, LLC		
6:00 pm – 8:00 pm	**Reception in the Exhibit Area**		

Due to circumstances beyond the control of meeting organizers, this program is subject to change without notice.

ISBioTech 4th Spring Meeting (continued): TUESDAY • MARCH 11, 2014			
	Baculovirus Expression Technology Kogod Cradle	**Cellular Therapies** Classroom	**Viral Vectors and Vaccines** Rehearsal Studio
7:30 am – 8:30 am	**Breakfast in the Exhibit Area**		
8:30 am – 9:15 am	**Gary W. Blissard, PhD** • Boyce Thompson Institute for Plant Research – *The Interplay Among Genomes of the Baculovirus AcMNPV and the Host Cell Line Tnms42 at the Transcriptome Level*	**Kelvin G.M. Brockbank, PhD** • Cell and Tissue Systems, Inc. – *3D Preservation of Natural Tissues and Engineered Constructs*	**Axel Schambach, MD, PhD** • Hannover Medical School – *Biosafety Challenges for Use of Retro- and Lentiviral Vectors in Gene Therapy*
9:15 am – 10:00 am	**Gorben P. Pijlman, PhD** • Wageningen University *Baculovirus Production of Enveloped Virus-Like Particle Vaccines*	**Harry C. Ledebur, Jr., PhD** • Axonia Medical, Inc. *Stretch Growth of Tissue-Engineered Nerve Grafts*	**Cécile Bauche, PhD** • THERAVECTYS SA *Lentiviral-Based Anti-HIV Therapeutic Vaccine: Design, Preclinical Studies, and Phase I/II Clinical Trial Preliminary Results*
10:00 am – 10:30 am	**Morning Break in the Exhibit Area**		
10:30 am – 11:15 am	**Renée Lapointe, PhD** • Sylvar Technologies Inc. *The Use of Evolutionary and Pathogenesis Studies in the Registration of Baculovirus-Based Insect Control Products*	**Ian K. McNiece, PhD** • MD Anderson Cancer Center *Development of Autologous and Allogeneic Stem Cell Products for Clinical Therapies*	**Douglas J. Jolly, PhD** • Tocagen Inc. *Production of a Replicating Retroviral Vector for Clinical Use*
11:15 am – 12:00 noon	**Robert Boulanger, PhD** • Protein Sciences Corporation – *Start-Up to Scale-Up in 100 Days: Rapid Modification of an Existing Microbial Fermentation Facility for Influenza Vaccine Production*	**Fred Miesowicz, PhD** • Argos Therapeutics, Inc. *Clinical Development of Autologous Dendritic Cells for Active Immunotherapy: The Challenges and Promise in Metastatic Renal Cell Carcinomas*	**Patric S. Lundberg, PhD** • Eastern Virginia Medical School – *Genetics, the Forgotten Variable*
12:00 noon – 12:45 pm	**AAV Baculovirus Reference Material Working Group Meeting in the Classroom**		
12:45 pm – 6:00 pm	**Free Afternoon with Recommended Activities**		
6:00 pm – 9:00 pm	***"South Pacific"* Banquet at the Mead Center in the Molly Smith Study**		
WEDNESDAY • MARCH 12, 2014			
7:30 am – 8:30 am	**Breakfast in the Exhibit Area**		
8:30 am – 9:15 am	**Shu Wang, PhD** • National University of Singapore *Baculoviral Transduction for Cellular Reprogramming and Stable Genetic Modification of Human Pluripotent Stem Cells*	**Mary Pat Moyer, PhD** • INCELL Corporation, LLC *New Cell Therapies, Tools, and Product Pipelines*	**Jacek Lubelski, PhD** • uniQure B.V. *Insect Cell Based AAV Production: An Update on Process Optimizations*
9:15 am – 10:00 am	**Christopher W. Kemp, PhD** and **April Birch** • Kempbio, Inc. – *Advances in the Use of BacMam Transduced Mammalian Cells for the Large-Scale Expression of Proteins and Virus-Like Particles*	**Brian Niland, PhD** • FDA CBER *Characterization of Cellular Therapies: Regulatory Considerations*	**James Miskin, PhD** • Oxford BioMedica plc *Lentiviral Vectors: Summary of Experience Gained from Multiple Clinical Trials*
10:00 am – 10:30 am	**Morning Break in the Exhibit Area**		
10:30 am – 11:15 am	**Yu-Chen "Andy" Hu, PhD** • National Tsing Hua University, Taiwan – *Baculovirus as a Tool for Vaccine Development*	**David F. Stroncek, MD** • NIH Clinical Center, Department of Transfusion Medicine *Recent Advances in Adoptive T Cell Therapy*	**Mercedes Segura, PhD** • bluebird bio Inc. *Overview of Downstream Processing Strategies for Lentiviral Vectors*
11:15 am – 12:00 noon	**Thera Mulvania, PhD** • Expression Systems, LLC *Purification of Recombinant Baculovirus by End Point Dilution and gp64 Screening*	**Andrew Picken, PhD** • Loughborough University *Minimizing Cryopreservation Risks for Stem Cell Therapy Bioprocessing*	**Vladimir A. Slepushkin, MD, PhD** • Lentigen Corporation – *Qualification of Lot Release Assays for Lentiviral Vectors*
12:00 noon – 1:30 pm	**Lunch in the Exhibit Area (Poster Presentations** from 1:00 pm – 1:30 pm)		
1:30 pm – 2:15 pm	**Dominic Esposito, PhD** • Leidos Biomedical Research, Inc. – *Improved Baculovirus Technologies for Protein Production in the Insect Cell Expression System*	**Thomas A. Brieva, PhD** • Celgene Cellular Therapeutics – *Designing Scalable Processes for Cell Therapies*	**Mark J. Federspiel, PhD** • Mayo Clinic – *Novel Production and Purification Processes for Oncolytic Viruses*
2:15 pm – 3:00 pm	**Holly J. Popham, PhD** • AgBiTech – *Development and Agricultural Use of Baculoviruses*	**Phillip B. Maples, PhD** • Laurus Bio, LLC *Cancer Vaccines / Immunotherapy Approaches*	**John T. Gray, PhD** • St. Jude Children's Research Hospital – *Clinical Grade Lentiviral Vector Production from Stable Cell Lines*
3:00 pm – 3:30 pm	**Afternoon Break in the Exhibit Area (Exhibit and Poster Teardown** begins at 3:30 pm)		
3:30 pm – 4:15 pm	**Kari Airenne, PhD** • University of Eastern Finland, A.I. Virtanen Institute – *Baculovirus Receptors and Signaling in Mammalian Cells*	**Margarida Serra, PhD** • iBET – *Integrating Bioprocess Optimization and Omics Tools Towards the Design of Novel Stem Cell Therapies for Cardiac Repair*	**Christine Le Bec, PhD** • Généthon *Analytical Methods to Measure Full and Empty AAV Particles*
4:15 pm – 5:00 pm	**Otto-Wilhelm Merten, PhD** • Généthon *Towards Large-Scale AAV Vector Production — The Use of Insect Cell/Baculovirus Technology: Developments, Optimisations, and Perspectives*	**Heather L. Brown** • Cord Blood Registry *Collection, Processing, and Storage of Umbilical Cord Blood Stem Cells*	
5:00 pm	**Meeting Adjourns**		