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# 11th International • Seattle, Washington



## *Baculovirus and Insect Cell Culture*

**February 25-27, 2008**

***Process Development and Production Issues***

*Using a highly focused technical content and a proven conference format, we will explore the problems faced while developing and producing products derived from insect cells and expressed by baculovirus. This meeting is intended to provide a body of knowledge from which scaleable processes can be properly monitored and reproduced.*

In addition to reviewing some of the technology's more successful applications, the presentations will focus on the latest advances in cell line development, production techniques, analytical and purification methods, plus the most recent regulatory trends. Supplementing these talks will be highly targeted workshops and exhibits presented by key technology supply firms. Our goal is to bring together the most experienced people in the field, and facilitate the exchange of information.

### **Sponsored By:**



### **Topics:**

- Cell and Virus Bank Production
- Protein Expression
- Scale-Up
- Downstream Processing
- Media Development
- Yield Optimization
- Process Development
- Storage and Stability
- Regulatory Issues

### **Conference Chairs**

***Donald Jarvis, Ph.D. - University of Wyoming***

***Tom Kost, Ph.D. - GlaxoSmithKline R & D***





# Baculovirus and Insect Cell Culture

## Process Development and Production Issues



### SUNDAY, FEBRUARY 24, 2008

4:00-6:00 pm **Registration and Welcome Reception**

### MONDAY, FEBRUARY 25, 2008

7:00-8:00 am **Registration, Continental Breakfast - Meeting Room Foyer**

8:00-8:30 am **Introduction**

Donald Jarvis, Ph.D. - University of Wyoming

Tom Kost, Ph.D. - GlaxoSmithKline R & D

Conference Co-Chairs

8:30-9:15 am **Baculovirus Mediated Protein Production - Overcoming the Challenges to Accelerate Structure-Based Drug Design**

James Groarke, Ph.D. - Novartis Pharmaceuticals

9:15-10:00 am **Protein Glycosylation in the Baculovirus-Insect Cell System: A Focus on Flu**

Donald Jarvis, Ph.D. - University of Wyoming

10:00-10:30 am **Break - Exhibit Area**

10:30-11:00 am **Workshop - Corning**

Presentation Title Pending

11:00-11:30 am **Workshop - Innovative Directions**

[DASGIP - Parallel Systems for Unparalleled Results](#)

11:30-Noon **Workshop - Protein Sciences Corporation**

[Improved Protein Manufacturing In Insect Expression Systems - Real-Time Monitoring of Protein Production](#)

Noon-1:30 pm **Lunch and Poster Session - Exhibit Area**

1:30-2:15 pm **Regulatory Considerations for the Use of Baculovirus Expression Systems in Product Development and Manufacturing**

Robin Levis, Ph.D. - FDA CBER

2:15-3:00 pm **Baculovirus Engineering for Gene Therapy: Evaluation of a Candidate Therapeutic Gene for Neural Disease and Trauma and Production of Vectors Devoid of Residual Viral Gene Expression**

Kostas Iatrou, Ph.D. - National Centre for Scientific Research "Demokritos"

3:00-3:30 pm **Break - Exhibit Area**

3:30-4:15 pm **Choosing a Baculovirus for Protein Expression**

Ken Franke, Ph.D. - Expression Systems, LLC

4:15-5:00 pm **Advantages of Insect Cell-Derived Immunotherapy - The Sweet Story**

Charles Van Beveren, Ph.D. - Favrilite, Inc.

5:30-6:30 pm **Reception - Exhibit Area**

## TUESDAY, FEBRUARY 26, 2008

- 7:30-8:30 am **Breakfast - Exhibit Area**
- 8:30-9:15 am **Large-Scale Production of Recombinant Adeno-Associated Vectors for Duchenne Muscular Dystrophy Gene Therapy Exploiting Baculovirus Technology**  
Juan Alejandro Negrete, Ph.D.- National Institutes of Health (NIH)
- 9:15-10:00 am **Baculovirus Derived Recombinant Nucleocapsid Protein for Lymphocytic Choriomeningitis Virus (LCMV)**  
Rajeev Dhawan, Ph.D. - Charles River Laboratories
- 10:00-10:30 am **Break - Exhibit Area**
- 10:30-11:15 am **Preparation and Evaluation of Influenza Vaccines in Insect Cells**  
Sue Clarke - ImmunoBiology LTD
- 11:15-Noon **Factors Responsible for the High Levels of Baculovirus Gene Expression**  
George Rohrmann, Ph.D. - Oregon State University
- Noon-6:00 pm **Free Afternoon with Recommended Activities**
- 6:00-7:00 pm **Happy Hour**

## WEDNESDAY, FEBRUARY 27, 2008

- 7:30-8:30 am **Breakfast - Exhibit Area**
- 8:30-9:15 am **Baculovirus Engineering for Biotechnological Applications In Insect and Mammalian Cells**  
Yu-Chan Chao, Ph.D. - Institute of Molecular and Cell Biology
- 9:15-10:00 am **Chimigen™ Vaccines Against Alphavirus Infections Produced in Insect Cells**  
Rajan George, Ph.D. - ViRexx Medical Corp.
- 10:00-10:30 am **Break - Exhibit Area**
- 10:30-11:00 am **Workshop - Expression Systems, LLC**  
[Optimizing the Baculovirus Expression System](#)
- 11:00-11:45 am **Baculovirus Picking – Proof of Concept**  
Gabe Longoria - Genetix USA Inc.
- 11:45-1:30 pm **Lunch and Poster Session - Exhibit Area**
- 1:30-2:15 pm **Generation of Engineered Insect Cell Lines for Improved Recombinant Protein Expression: Maturation and Activation of Pro-Protein Precursors**  
Mariantonietta Rubino - Axxam
- 2:15-3:00 pm **Intron Splicing-Mediated AAV Production in Insect Cells**  
Haifeng Chen, Ph.D.- Virovek, Inc.
- 3:00-3:30 pm **Break - Exhibit Area**
- 3:30-4:15 pm **Manufacturing FluBIOk – A Novel Influenza Vaccine: Using the Baculovirus Expression Vector System for Commercial Scale Production**  
Rob Boulanger, Ph.D. - Protein Sciences Corporation