

Baculovirus & Insect Cell Culture

Process Development and Production Issues

5th Annual Meeting

February 25-28, 2002
Santa Fe, New Mexico

Program

Sunday, February 24

4:00-7:00 pm: *Welcome Reception, Exhibit Set-Up*

Monday, February 25

8:00-10:00 am: *Registration - Meeting Room Foyer*

10:00-10:30 am: **Introduction**
Keith L. Carson - Conference Chairman

10:30-11:15 am: **Purification and Characterization of Baculovirus Derived, Virus-Like-Particles**
Mark W. Cutler, Ph.D. - *Wyeth-Lederle Vaccines & Pediatrics*

11:15-12:00 noon: **Baculovirus-Expressed Lysosomal Protective Protein / Cathepsin-A and Neu-1: A Novel and Highly Effective Approach for Enzyme Replacement Therapy**
Erik Bonten, Ph.D. - *St. Jude Children's Research Hospital*

12:00-1:30 pm: **Lunch – Exhibit Area**

10:30-11:15 am: **Baculovirus Artificial Chromosomes: A New Generation of Baculovirus Expression Vectors**

Kostas Iatrou, Ph.D. - *Institute of Biology - NCSR*

11:15-12:00 noon: **Cytogenetic Heterogeneity in Spodoptera Frugiperda and Recombinant Protein Production**

Mohamed Al-Rubeai, Ph.D. - *The University of Birmingham*

12:00-1:30 pm: **Lunch - Exhibit Area**

1:30-2:15 pm: **Scale-Up of a Process Producing a Chemokine Binding Protein Using the Baculovirus Expression System: 200 ml - 10 L**

Sue Clarke - *Xenova*.

2:15-3:00 pm: **Analysis and Engineering of Glycosylation Pathways in Insect Cells**
Michael J. Betenbaugh, Ph.D. - *Johns Hopkins University*

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

3:30-4:15 pm: **Viral Safety and Insect Cell Products - A European Perspective**
Daniel N. Galbraith, Ph.D. - *Q-One Biotech*

4:15-5:00 pm: **Recombinant Baculoviruses as Antigen Delivery Vehicles for the Generation of Monoclonal Antibodies**

J. Patrick Condreay, Ph.D. - *GlaxoSmithKline*

6:00-7:30 pm: **The Santa Fe Reception - Exhibit Area**

Tuesday, February 26

- 7:30-8:30 am: **Continental Breakfast - Exhibit Area**
- 8:30-9:15 am: **Producing the Antigen Delivery Cassette™ for Dendreon's Therapeutic Cancer Vaccines**
James C. Litts, Ph.D. - *Dendreon Corporation*
- 9:15-10:00 am: **Utilizing Baculovirus Expression System to meet Research Scale Protein Demands**
Carl Birks – *Zymogenetics, Inc.*
- 10:00-10:30 am: **Break - Exhibit Area**
- 10:30-11:15 am: **Optimization of Protein Expression Using the BEVS System**
Karl Anderson, Ph.D. - *Protein Sciences Corporation*
- 11:15-12:00 noon: **From Puddles To Waves**
Stephanie T. Widger - *Chiron Corporation*
- 6:00-7:30 pm: **Baculo-Mixer · Happy Hour – Exhibit Area**

Wednesday, February

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- 7:30-8:30 am: **Continental Breakfast - Exhibit Area**
- 8:30-10:00 am: Technology Workshops I
- 10:00-10:30 am: **Break - Exhibit Area**
- 10:30-12:00 noon: Technology Workshops II
- 12:00-1:30 pm: **Lunch - Exhibit Area**
- 1:30-2:15 pm: **Large-Scale Productions of Serine-Threonine Kinases of the MAPK Pathway Using the Baculovirus System**
Steven Nguyen - *Johnson & Johnson Pharmaceutical Research & Development*
- 2:15-3:00 pm: **Rapid Methods for the Capture, Purification and Quantitation of Protease Sensitive Proteins**
Christopher W. Kemp, Ph.D. - *Kemp Biotechnologies, Inc.*
- 3:00-3:30 pm: **Break - Exhibit Area (Exhibit Tear Down at 3:30 pm)**
- 3:30-4:15 pm: **Multi-Parameter Optimization of Protein Expression in the Baculovirus Expression Vector System**
Li Liu, Ph.D. - *BD Biosciences Pharmingen*
- 4:15-5:00 pm: **Expression and Purification of Structural and Non-Structural Hepatitis C Virus Proteins from Shaker Cultures of High-Five Cells**
Lewis F. Neville, Ph.D. - *XTL Biopharmaceuticals*
- 7:00-10:00 pm: **Conference Banquet**

Thursday, February 28

- 7:30-8:30 am: **Continental Breakfast - Foyer**
- 8:30-9:15 am: **Application of HisTags, IMAC & Exoproteolytic HisTag-Cleavage for Efficient Purification of Secreted Baculovirus-Expressed Proteins**
John Pedersen, Ph.D. - *Unizyme*
- 9:15-10:00 am: **Development of Recombinant Antigens for Serologic Testing**
Rajeev K. Dhawan, Ph.D. - *Charles River Laboratories*
- 10:00-10:30 am: **Break - Foyer**

The Role of Bioprocess Conditions in the Ability of Insect Cells to Perform Complex Glycosylation

Laura A. Palomares, Sc.D. - *Cornell University / Biotechnology Institute-UNAM*

Panel Discussion: Obstacles and Opportunities for Baculovirus Expression Systems in the Production of Human Therapeutic Products

10:30-11:15 am:

11:15-12:00 noon:

List Of Exhibitors

HyClone Laboratories, Inc.

New Brunswick Scientific Co., Inc.

JRH Biosciences, Inc.

Spectrum Laboratories, Inc.

Expression Systems

Kemp Biotech

BD Diagnostic Systems

Kendro Laboratory Products AB

Applikon, Inc.

Protein Sciences Corporation

J & J Scientific

Biomedical Resources

PALL BioPharmaceuticals

Corning, Inc.

Wave Biotech LLC

B. Braun Biotech, Inc. USA

Invitrogen Corporation

Broadley-James Corporation

Alfa Wassermann, Inc.

Newport Biosystems

Amersham Biosciences

EM Industries