

Purification of Biological Products

1st Annual Meeting

*December 5–7, 2005
Santa Monica, California*

Topics Include:

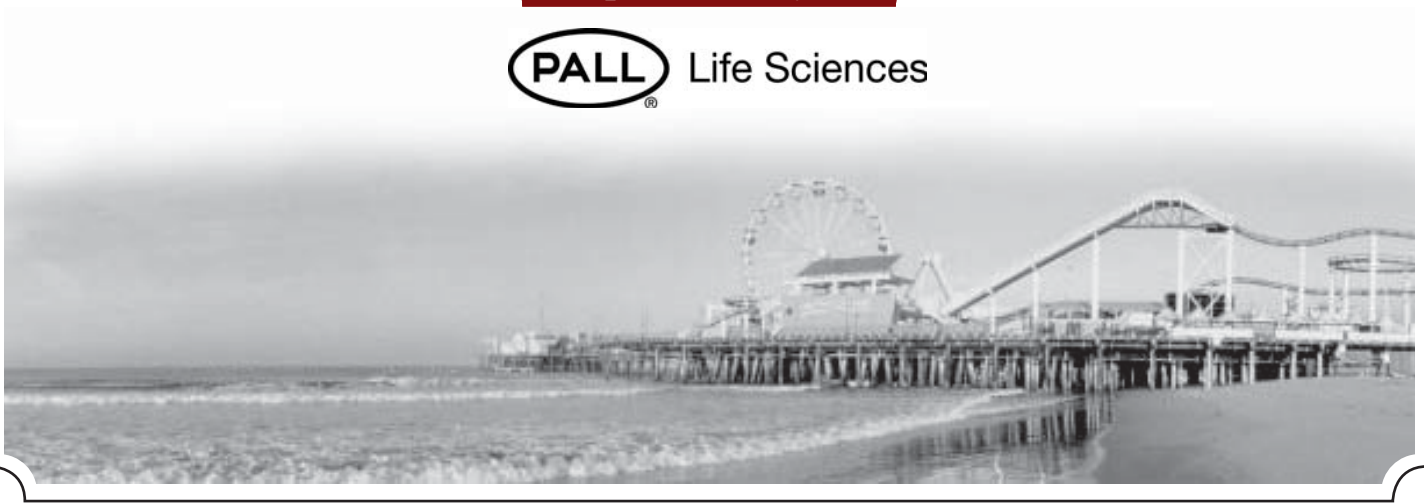
- Platform Development Templates
- Process Optimization
- Chromatography Media Selection
- Sensor and Process Automation Technology
- Clarification Techniques
- Ultrafiltration and Diafiltration Methods
- Viral Clearance
- Aggregate, DNA, and Protein Removal
- Endotoxin and Leachate Removal
- Protein-A and Alternative Capture Methods

Applications Include:

- Antibodies
- Recombinant Proteins
- Viral Vaccines
- Viral Gene Vectors
- Plasmids

This meeting will feature case histories from the industry's top downstream processing scientists and engineers. We will cover key aspects of the clarification and purification steps needed for a wide range of biological products including antibodies, recombinant proteins, viruses, and plasmids. Please join us as we discuss the methods that have been most successful, and explore the techniques that could provide the processing solutions needed for the next generation of products.

Sponsored By:



Williamsburg BioProcessing Foundation **Purification of Biological Products**

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Sunday, December 4

4:00–6:00 pm: **Registration, Welcome Reception (Exhibit and Poster Setup)**

Monday, December 5

7:00–8:00 am: **Registration and Continental Breakfast — Meeting Room Foyer**

8:00–8:30 am: **Introduction**
Keith L. Carson — *Conference Chairman*

8:30–9:15 am: **DOE Assistance for Platform Development of Antibody Purification**
Tony Hong — *Amgen*

9:15–10:00 am: **Development of a Clinically Applicable AAV Vector Purification System for the Treatment of Muscular Dystrophies**
Jeng-Shin Lee, Ph.D. — *Harvard Gene Therapy Initiative*

10:00–10:30 am: **Break — Exhibit Area**

10:30–11:15 am: **Manufacturing Human Therapeutic Proteins in the Transgenic Plant-Based System**
Ed Branson, Ph.D. — *Biolex*

11:15–Noon: **Isolation of a Therapeutic Protein from Transgenic Goat Milk Using Microfiltration**
Mark Perreault — *GTC Biotherapeutics*

Noon–1:30 pm: **Lunch — Exhibit Area**

1:30–2:15 pm: **Developing a Robust Commercial-Scale Purification Process that Caters to Process Variability**
Louis L. (Skeet) Martin — *Fluor*

2:15–3:00 pm: **An Overview on Downstream Processing for Therapeutic Proteins using Affinity Tags: The Use of Engineered Aminopeptidases for Tag Removal**
José Arnau, PhD — *Unizyme Laboratories A/S*

3:00–3:30 pm: **Break — Exhibit Area**

3:30–4:15 pm: **Improved Column Chromatography of Proteins by Arginine**
Tsutomu Arakawa — *Alliance Protein Laboratories*

4:15–5:00 pm: **Bioburden and Endotoxin Clearance on Column Chromatography Steps — A Case Study**
Paul Tamburri, Pharm.D. — *Hoffman-LaRoche*

6:00–7:30 pm: **Reception — Exhibit Area**

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Tuesday, December 6

- 7:30–8:30 am: **American Breakfast — Exhibit Area**
- 8:30–9:15 am: **Phase I Compliant Purification of a Chemokine-MAb Fusion Protein that Targets Necrotic Cells in Tumors**
Dan Stoughton, Ph.D. — *SAIC-Frederick*
- 9:15–10:00 am: **Simultaneous Removal of Leached Protein A, Aggregates, DNA, and Endotoxin from Protein A-purified IgG with Ceramic Hydroxyapatite and Fluorapatite**
Pete Gagnon — *Bio-Rad Laboratories*
- 10:00–10:30 am: **Break — Exhibit Area**
- 10:30–11:15 am: **Utilization of Depth Filter to Remove Non-Product Related Impurities in a Large-Scale Monoclonal Antibody Process**
Felix Solamo — *Amgen*
- 11:15–Noon: **Improving Product Capture Using Mixed Mode Chromatography**
Andy Topping — *Avecia Biotechnology*
- Noon: **Free Afternoon with Recommended Activities**

Wednesday, December 7

- 7:30–8:30 am: **Continental Breakfast — Exhibit Area**
- 8:30–9:15 am: **Case Study: Virus Validation for a Cell Culture Produced Recombinant Protein**
Richard Richieri — *Avid Bioservices*
- 9:15–10:00 am: **An Introduction to Viral Clearance: An Overview of Study Design, Regulatory Expectations, and Data Interpretation**
Jeri Ann Boose, Ph.D. — *BioReliance, invitrogen bioservices*
- 10:00–10:30 am: **Break — Exhibit Area**
- 10:30–Noon: **Technical Workshops**
- Noon–1:30 pm: **Lunch — Exhibit Area**
- 1:30–2:15 pm: **Identification and Purification of Recombinant Proteins: hMANF and Other Astrocyte-Derived Neurotrophic Factors**
John Commissiong, Ph.D. — *Neurotrophics*
- 2:15–3:00 pm: **High-Affinity, Low-Molecular-Weight Displacers for Preparative Anion- and Cation-Exchange Chromatography of Biomolecules Using Displacement Mode: Properties, Performance, Advantages and Limitations**
Barry Haymore — *Sachem*
- 3:00–3:30 pm: **Break — Exhibit Area (Exhibit & Poster Teardown at 3:30 pm)**
- 3:30–4:15 pm: **The Initial Understanding of the Capacity Increase in Binary Salt HIC**
Anna Senczuk — *Amgen*
- 4:15–5:00 pm: **Evaluation of Q Membranes for the removal of Host Cell Proteins and Viruses for Implementation into the Antibody Purification Process**
Pinar Tabur — *Abgenix, Inc.*

Due to circumstances beyond the control of the conference organizers, the program is subject to change.



The Williamsburg BioProcessing Foundation

The Most Trusted Source of BioProcess Technology™



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Registration Form

Guest/Spouse Fee:

For an additional \$95, a guest or spouse can join you for the evening receptions.

Simply include payment and the person's name:

\$95 Guest/Spouse _____

Please circle one:

[Mr/Mrs/Miss/Dr] First Name _____ Last Name _____

Title _____ Organization _____

Address _____

City _____ State _____ Postal Code _____ Country _____

Telephone _____ Fax _____ E-mail _____

Name Desired on Name Badge _____

	<u>Corporate</u>	<u>Non-Profit</u>	<u>Academic/Gov't</u>
Full Conference	<input type="checkbox"/> \$1,695	<input type="checkbox"/> \$895	<input type="checkbox"/> \$350
Single Day	<input type="checkbox"/> \$650	<input type="checkbox"/> \$350	<input type="checkbox"/> \$150

Billing Address

Address _____

City _____ State _____ Postal Code _____ Country _____

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Please make your check payable to "WilBio" in U.S. dollars, and send it to the address shown at the bottom of the page. If paying with a charge card, please indicate card type:

Discover Visa MasterCard American Express

Account # _____ Exp Date _____

Authorized Signature _____

Send me info on:
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<input type="checkbox"/> Workshops
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Hotel Accommodations

The Fairmont Miramar Hotel has offered a special rate of \$209 per night plus applicable sales tax. All reservations must be made directly with the hotel:

**101 Wilshire Boulevard
Santa Monica CA 90401
1-800-441-1414
Reservation Code: WilBio**

To receive the conference rate of \$209, you must reserve your room no later than November 18, 2005, and specify you will be attending the Purification of Biological Products Conference.

Cancellation Policy

We will reimburse your registration fee less a \$100 cancellation charge if we receive a written cancellation request no later than November 5, 2005. No refunds are available after this date.

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