Cambridge Healthtech Institute's
Ninth Annual

PEPTALK

The Definitive Protein-Focused Event

Conferences: January 11-15, 2010
Exhibits: January 11-15, 2010
Hotel Del Coronado • San Diego, California

Pipeline 1 Formulating Biologics
Meeting the Challenges

Second Annual Optimizing Biologics Formulation Development
Second Annual Protein Aggregation
Third Annual Lyophilization & Spray Drying 2010

Pipeline 2 Bioprocessing
Streamlining Complexity

Second Annual Protein Purification & Recovery
Inaugural Membrane Proteins
Third Annual Protein Production

Pipeline 3 Engineering Protein & Peptide Therapeutics

Sixth Annual Antibodies
Sixth Annual Recombinant Proteins
Inaugural Peptides

Pipeline 4 Higher-Throughput Protein Expression

Thirteenth Annual Enhancing Host Expression
Thirteenth Annual Characterization, Purification & Screening
Inaugural Vectors & Clones

Register Early and Save!

Receive a $50 Hotel Del Coronado Resort Credit!
Explore the beauty of the Hotel Del Coronado and enjoy
the wide variety of unique stores and boutiques at Shops at the Del!
Details inside

Organized by:
Cambridge Healthtech Institute
250 First Avenue, Suite 300, Needham, MA 02494
T: 781.972.5400 • Toll-free in the U.S. 888.999.6288 • F: 781.972.5425 • www.healthtech.com

chi-PepTalk.com
### PEPTALK-AT-A-GLANCE

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<th>Date</th>
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WHAT TO DO IN CORONADO AND NEARBY SAN DIEGO

After a day of meetings you may want to take in some of what the area has to offer.

CORONADO

- Explore Ferry Landing Marketplace at the foot of First Street with its shops, restaurants and stunning views of downtown San Diego.
- Coronado is home to North Island Naval Air Station and the Naval Amphibious Base. Since Sept. 11, 2001 neither base is open to the public. However, Old Town Trolley Tours offers a 2-hour plus guided tour that takes you past some of the military installations in the San Diego area. Photo I.D. required. The Visitor Center can provide more information.
- Coronado City Beach was named one of Southern California’s best beaches in 2002 by the Travel Channel.

SAN DIEGO

- World Famous San Diego Zoo
- San Diego Wild Animal Park
- Sea World (home of Shamu)
- Take a leisurely stroll through Balboa Park, a collection of fine museums, and botanical gardens as well as the Spreckels Organ Pavilion. Balboa Park is one of the nation’s largest urban cultural complexes.
- Embark on a diverse shopping and dining excursion in one of the famous districts San Diego has to offer: Old Town State Historic Park

These are just some of the many diverse attractions Coronado and San Diego has to offer. Please enjoy your stay!

For more information on Coronado, go to www.coronadovisitorcenter.com
For more information on San Diego, go to www.sandiego.org

Maximize your experience onsite at PepTalk 2010!

The Intro-Net offers you the opportunity to set up meetings with selected attendees before, during and after this conference, allowing you to connect to the key people you want to meet. This online system was designed with your privacy in mind and is only available to registered session attendees of this event.

Registered conference attendees will receive more information on accessing the Intro-Net in the weeks leading up to the event.

Tuesday, January 12
2:00 & 3:30 pm

BuzZ Sessions are facilitated small-group discussions. Interactive participation leads to problem solving, solutions, and future collaborations.

If you have a topic idea or would like to moderate a table, please contact:
Mary Ann Brown, Executive Conference Director
Phone: 781-972-5497 • E-mail: mabrown@healthtech.com

Details (from front page promo)

- The First 25 people to register for the PepTalk Premium Package and reserve their stay at the Hotel Del Coronado will receive a $50 resort credit good for dining, shopping or spa!
- Any cancellation will make entry invalid
- Resort credit will be distributed on-site at the PepTalk registration desk in January
- All conference registration fees must be paid in full
SPONSORSHIP OPPORTUNITIES

Customized sponsorship packages are designed to help your company obtain its marketing and lead generation objectives. Whether your goal is to showcase a new product in our exhibit hall, or to present your latest technology or solution during a conference session, your sponsorship package will strategically place you in front of qualified end-users.

**Agenda Presentations**
Present your technology or solutions within a conference program of your choice. Showcase how your company provides novel solutions in this highly competitive industry.

**Breakfast & Luncheon Workshop**
Invite conference session attendees to enjoy breakfast or lunch on behalf of your company, while you give a presentation on your latest innovations.

**Invitation-Only VIP Functions**
Invite a select group of your top prospects to a night out at a premier local venue. Establish lasting relationships and generate new business leads in a casual, relaxed atmosphere. Limited Availability!

**Exhibit Hall Reception**
Create an immediate buzz for your company by hosting the Grand Opening Exhibit Hall Reception! Greet delegates as they enter the reception, direct traffic to your booth, and enjoy facilitated networking. Bar and hors d’oeuvres services will be offered on behalf of your company.

**Refreshment Breaks**
Over ten breaks are available to sponsor throughout the conference. Break sponsorship is an ideal way to gain additional exposure, especially when you tie it in with one of our targeted conference sessions. Your coffee break will be promoted in the conference session, and will include a variety of teas, coffees, and other assorted refreshments.

**For Sponsorship or Exhibit information, please contact:**
**Suzanne Carroll**
Manager, Business Development
Cambridge Healthtech Institute
Telephone: 781-972-5452
Email: scarroll@healthtech.com

**List of Current Exhibitors as of 9/15:**
- Accelrys
- Ajinomoto
- Aktiv-Dry
- Applied Photophysics
- Aragen Bioscience
- Blue Sky Biotech
- Caliper
- Constant Systems
- Crown Bioscience
- deltaDOT
- DNA 2.0
- Eden Biodesign
- Forte Bio
- GE Healthcare
- Hudson Control Group
- ICx Nomadics
- ID Innovative Directions
- IMA Edwards
- Integrated DNA Technologies
- Invitrogen
- Lab901
- LI-COR
- Millrock Technology
- Nanosight
- New England Biolabs
- Novozymes
- Pall Life Sciences
- Paragon Bioservices
- Precision Antibody
- PolyPeptide Group
- Promega
- QIAGEN
- Rapp Polymere
- Selexis
- Sloning Biotech

**Poster Awards**
Give a corporate introduction to the Poster Awards, and announce the winners of this highly attended PepTalk event! Sponsors will enjoy added visibility on-site, and benefit from additional on-site branding.

**Focus Groups**
CHI helps you organize and execute a focus group onsite at PepTalk. This exclusive gathering can be useful to conduct market research, gain feedback on a new product idea, and gather marketing intelligence from industry experts on a specific topic. Please inquire for more details.

**User Group Meeting**
Co-locate your user group meeting with PepTalk. CHI will help market the event, manage logistical operations, develop the agenda, and more. CHI can handle the entirety of the meeting, or aspects of your choice.

**Other Promotional Opportunities:**
- Conference tote bags, distributed to all delegates
- Badge lanyards, distributed to all delegates
- Tote bag inserts of company literature
- Padfolios, distributed to all delegates
- Keynote chair drop of company literature
- Session room chair drop of company literature
- Program guide sponsor
- Poster abstract book sponsor

**CHI’s Co-Operative Marketing Program**
CHI is pleased to help market to your prospect list at a shared cost. We will offer your prospects a discounted rate to attend the conference on your behalf via mailing or email. CHI’s Marketing Manager will customize a specific message to your target audience.
WHY you WILL lEARN IN THIS COURSE

recently available for characterizing sub-visible particulates in therapeutic formulations. This workshop addresses technologies suitable for testing and characterizing protein particles. New techniques continue to emerge. What are the methods available for analysis of sub-visible particles in protein therapeutics? Learn what non-mammalian expression systems have to offer and the benefits of various ‘specialized’ systems.

WHAT you WIll lEaRN IN THIS COURSE

Accurate immunogenicity assessment is essential for the successful development of therapeutic proteins. This workshop will review basic aspects of immune responses and discuss methodologies and advances in immunogenicity detection. Experts and those new to this field will benefit from presentations by the workshop leaders and interactive sections.

WHAT you WIll lEaRN IN THIS COURSE

• Overview of immunogenicity, screening assays and Nab assays
• Assay selection, design and validation
• Addressing challenges associated with immunogenicity detection and interpretation
• Recent trends and advances in immunogenicity detection assays

Instructors:
Maria Barbosa, Ph.D., Principal, CA Consultants
Shalini Gupta, Ph.D., Director, Clinical Immunology, Amgen
Eric Wakshull, Ph.D., Senior Scientist/Group Leader, Bioanalytical Research & Development, Genentech, Inc.

Tuesday, January 12 • 4:30pm - 7:30pm

(OH) Phage Display for Antibody and Peptide – Technical Tips & Guidelines
Phage Display has proven to be a robust and convenient technology for the selection of high-quality antibodies and peptides. This course will be taught by three veterans in the field. You will get a solid foundation, technical tips, and laboratory guidelines to aid your own research.

WHAT you WIll lEaRN IN THIS COURSE

• How to construct protein or peptide libraries
• How to express on the surface of phage
• How to select from a library
• Compare with alternative display systems

Instructors:
Gregg Silverman, M.D., Professor of Medicine, Director, Laboratory of B cell Immunobiology, University of California San Diego School of Medicine
Robert Mabry, Ph.D., Senior Scientist, ZymoGenetics Inc.
Kristin Rockey, Principal Scientist, Selection, Screening & Molecular Biology Group Head, Discovery Research, Dynax Corp.

*Separate Registration Required
MONDAY, JANUARY 11

7:30 am - 8:45 am Registration and Morning Coffee

9:00 KEYNOTE PRESENTATION
Development Interfaces: Feedback Loops to Improve Formulation, Optimize Process, and Reduce Timelines
Palani Palaniappan, Ph.D., Senior Director, Analytical & Formulation Sciences, Millennium Pharmaceuticals, Inc., the Takeda Oncology Company

9:50 RotavirusTM, an Oral Rotavirus Vaccine Product Development Case Study: Science, Marketing, and Business Development Considerations
Satoshi Ohtake, Ph.D., Scientist, Research and Development, Aridis Pharmaceuticals

10:20 Networking Coffee Break

10:45 Strategies for Early Pre-Formulation Research of Therapeutic Proteins
Nick Guzewicz, Ph.D., Principal Research Associate, BioFormulations Development, Genzyme Corporation

11:15 The Relevance of Predictive Tools and Stress Models in Protein Drug Development
Roland Schmidt, Ph.D., Principal Pharmaceutical Scientist, Manufacturing Science, Abbott Laboratories

11:45 Utilizing Design of Experiments for Subcutaneous Formulation Development
Phuong Nguyen, Ph.D., Scientist, Parenteral Formulation Sciences, Millennium Pharmaceuticals, Inc., the Takeda Oncology Company

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

2:05 Proximity Energies: A Framework for Understanding High Concentration Fluids
Thomas M. Laue, Ph.D., Professor, Biochemistry and Molecular Biology, Director, Biomolecular Interaction Technologies Center (BITC), University at Buffalo

2:35 High Frequency Rheology: A Novel Tool to Understand the Behavior of High Concentration Protein Solutions
Devendra (Davy) S. Kataoria, Ph.D., Professor of Pharmaceutics, University of Connecticut

FORMULATION COMPOSITION SCREENING AND OPTIMIZATION

3:05 Dimers and Aggregates and Particles, Oh My!
New Tools and Techniques for Studying Protein Aggregation
Alan C. Herman, VP of Product Development and Chief Scientific Officer, Althea Technologies Inc.

3:35 Sponsored Presentation (Sponsorship Opportunity Available)

3:50 Networking Refreshment Break

4:15 High-Throughput Stability/Formulation Screening: Correlation between Thermostability and Shelf Life at Accelerated Conditions
Mathias Thörnström, Ph.D., Research Scientist, Protein Structure and Biophysics, Novo Nordisk A/S

4:45 Measuring and Increasing Protein Stability
C. Nick Pace, Ph.D., Professor, Medical Biochemistry and Genetics and of Biochemistry and Biophysics, Texas A&M

5:15 Biophysical Characterization of High Concentration Protein Formulations
Sanozko Kanai, Ph.D., Scientist, Pharmaceutical and Analytical R&D, F. Hoffmann-La Roche AG

5:45 Welcoming Reception in the Exhibit Hall

TUESDAY, JANUARY 12

7:00 am Registration

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

PROCESS, PRODUCTION, AND DELIVERY CHALLENGES FOR PROTEIN THERAPEUTICS

8:20 Improving Biotherapeutic Convenience and Compliance through Delivery Technologies
Christopher A. Rhodes, Ph.D., Executive Director, Pharmaceutical Sciences, Amylin Pharmaceuticals, Inc.

8:50 Challenges with Developing High Concentration Protein Formulations for Intrathecal Administration
Zabra Shabrokh, Ph.D., Senior Director, Pharmaceutical & Analytical Development, Shire Human Genetic Therapies

9:20 Optimizing Delivery of Novel Immune Potentiators for Vaccine Application
Mannmohan Singh, Ph.D., Head, U.S. Vaccine Delivery and Formulation Research, Novartis Vaccines

9:50 Dry Powder Biologic Formulations as a Means of Providing Ultra-Rapid Drug Delivery
Andrea Leone Bay, Ph.D., VP Pharmaceutical R&D, Mannkind Corporation

10:05 Networking Coffee Break in the Exhibit Hall

10:45 Packaging and Drug Delivery Devices for Biologics
Michael Roberto, Ph.D., President, Material Needs Consulting

11:15 Liquid-Liquid Phase Separation of Monoclonal Antibodies
Jifeng Zhang, Ph.D., Principal Scientist, Department of Analytical and Formulation Sciences, Amgen, Inc.

11:45 Multifunctional Formulation Development Approaches to Reduce Immunogenicity of Therapeutic Proteins
Sathy Balu-Iyer, Ph.D., Associate Professor, Pharmaceutical Sciences, SUNY - University at Buffalo

12:15 Close of Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

WEDNESDAY, JANUARY 13

7:00 am Registration for Protein Aggregation

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

AGGREGATION IN FORMULATION AND PROCESSING

8:20 KEYNOTE PRESENTATION
Understanding and Controlling Protein Aggregation: Experimental Approach and Lessons Learned from Various Protein Formulation Case Studies
Wolfgang Fraunhofer, Ph.D., Group Leader, Associate Research Fellow, Global Pharmaceutical and Analytical Development, Abbott Bioresource Center

9:00 Protein Aggregation: A Case Study of Process Understanding
Carly A. Kirchhoff, Ph.D., Senior Principal Scientist, Pharmaceutical R&D, Global Biologics, Pfizer, Inc.

9:30 Determination of Reversible Self-Association at High Protein Concentration and its Impact on Viscosity
Steven J. Shire, Ph.D., Staff Scientist and Group Leader, Process R&D, Genentech, Inc.

10:00 Networking Coffee Break in the Exhibit Hall

AGGREGATION AT SURFACES AND DURING COLD/CRYO STORAGE

10:45 Stabilization of Protein against Surface Adsorption-Induced Aggregation
Li Shi, Ph.D., Senior Director, Technology Development, Genzyme, Inc.

11:15 Understanding Cryoconcentration Effects during Freeze/Thaw Processing of Bulk Protein and Possible Consequences on Protein Aggregation
Parag Kolhe, Ph.D., Principal Scientist, Global Research and Development, Global Biologics, Pfizer, Inc.

11:45 Characterizing Aggregates Formed During Cold Storage
Jamie Moore, Ph.D., Scientist and Group Leader, Early Stage Pharmaceutical Development, Genentech, Inc.

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

ANALYTICAL TECHNIQUES FOR AGGREGATES, PARTICLES, AND EXTRACTABLES

2:05 Enabling Analytical Techniques for Extractables and Leachables Testing for Biologics
Nanda Subbarao, Ph.D., Senior Consultant, Analytical-CMC, Biologics Consulting Group

2:35 Subvisible and Visible Particle Analysis by Light Obscuration and Flow Imaging Techniques
Quanmin Chen, Ph.D., Scientist, Process Biochemistry & Formulation Sciences, MedImmune, Inc.

3:05 Field-Flow Fractionation as a Possible Tool for Analyzing Protein Aggregates
Tsumoto Kouhei, Ph.D., Associate Professor, Division of Frontier Biosciences, University of Tokyo

3:35 Sponsored Presentation (Sponsorship Opportunity Available)

3:50 Networking Refreshment Break
MECHANISMS OF PROTEIN INSTABILITY, AGGREGATION, AND IMMUNOGENICITY

4:30 Antibody-Drug-Conjugate: Why is the Drug Falling off?  
Hung-Wei Chih, Ph.D., Early Stage Pharmaceutical Development, Genentech

5:00 Predicting Protein Aggregation Prone Regions: Implications for the Design of Therapeutic Proteins with Enhanced Stability  
Nareesh Chennamsetty, Ph.D., Post-Doctoral Associate, Chemical Engineering, Massachusetts Institute of Technology  
Co-developed with Bernhardt Hipps, Ph.D., Director, Novartis-MIT Center for Continuous Manufacturing, Professor, Department of Chemical Engineering, Massachusetts Institute of Technology

5:30 Reception in the Exhibit Hall

6:30 Close of Day

THURSDAY, JANUARY 14

7:00 am Registration

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee  
MECHANISMS OF PROTEIN INSTABILITY, AGGREGATION, AND IMMUNOGENICITY (CONT.)

8:20 Controlling Aggregation Pathways and Kinetics via Protein Interactions and Rational Design  
Christopher Roberts, Ph.D., Associate Professor, Department of Chemical Engineering, University of Delaware

8:50 Novel Pathways of Oxidative and Photolytic Peptide and Protein Disulfide Degradation Leading to Covalent Cross-Links  
Christian Schönherr, Ph.D., Professor and Chair, Department of Pharmaceutical Chemistry, University of Kansas

9:20 Predicting Stability of Concentrated Protein Formulations From Dilute Solution Properties  
Ulf Nobmann Ph.D., Sales Specialist, Malvern Instruments

Kevi Mattison Ph.D., Senior Bioanalytical Scientist, Malvern Instruments

9:50 Sponsored Presentation (Sponsorship Opportunity Available)

10:05 Networking Coffee Break in the Exhibit Hall

NEW TECHNOLOGIES APPLIED TO PROTEIN STABILITY, AGGREGATION, AND FORMULATION

10:45 High-Throughput Measurements of Protein Self-Association as a Guide to Engineering and Formulating Aggregation-Resistant Antibodies  
Pete Tossell, Ph.D., Assistant Professor, Chemical & Biological Engineering, Rensselaer Polytechnic Institute

11:15 Speaker to be Announced

11:45 A Novel High-Throughput Technology for Formulation Optimization  
Larry DeLucas, Ph.D., Professor, Director, Center for Biophysical Sciences and Engineering, University of Alabama at Birmingham

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

1:30 Close of Protein Aggregation

THURSDAY, JANUARY 14

1:15 Registration for Lyophilization & Spray Drying 2010

1:50 KEYNOTE PRESENTATION

Recent Advances in the Science and Technology of Freeze Drying: Bio-Stabilization, Process Optimization, and Quality by Design  
Michael J. Pikal, Ph.D., Pfizer Distinguished Endowed Chair in Pharmaceutical Technology & Professor of Pharmaceutics, University of Connecticut

2:20 Rapid Freeze-Drying of Amorphous Protein Formulations in the Micro-Colapsed State  
Robert Johnson, Ph.D., Principal Scientist, Global Biologics, Pfizer Global R&D

2:50 Combined Two-Dimensional FT-IR and Freeze-Drying Microscopy for in situ Investigation of Protein Stability during Lyophilization  
Hanka Schiffer, Ph.D., Braasenose Research Fellow in Biomedical Engineering, Engineering Science, University of Oxford

3:20 A Practical Approach to Resolving the Nucleation Problem in Lyophilization  
Robert Sever, Ph.D., Manager, BioPharma Research & Development, Praxair

3:35 Networking Refreshment Break in the Exhibit Hall

4:30 Residual Water in Freeze-Dried Materials: Why and How to Control it and at What Levels  
Evgeny Shalaev, Ph.D., Associate Research Fellow, Parenteral Center of Emphasis, Pfizer, Inc.

5:00 Case Study: Transferring a Bulk Freeze Drying Process from a Glass Container to a Tray  
Patrick Boylan, Senior Scientist, GlaxoSmithKline Biologicals

5:30 Utilization of Modeling to Optimize Freeze Drying Processes  
Venkat R. Koganti, Ph.D., Senior Scientist, Parenteral Center of Emphasis, Pfizer, Inc.

6:00 Close of Day

FRIDAY, JANUARY 15

7:00 am Registration

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

KEY CONSIDERATIONS AND STRATEGIES FOR DESIGN AND SCALE-UP

8:20 Lyophilization: Considerations for Formulation Design and Process Scale-Up  
Wei Chen, Ph.D., Senior Research Scientist, Pharmaceutical Sciences Research and Development, Eli Lilly and Company

8:50 Use of TDLAS as a Scale-up Tool: Dryer Sublimation Characterization  
Lisa Hardwick, Research Scientist I, Baxter BioPharma Solutions

9:20 CFD Lyophilization Plant Modeling  
Speaker to be Announced

9:50 Sponsored Presentation (Sponsorship Opportunity Available)

10:05 Networking Coffee Break in the Exhibit Hall

10:45 Poster Awards in the Exhibit Hall

IMPROVING THE STABILITY OF VACCINES: ARE THERE ALTERNATIVES TO FREEZE DRYING?

11:00 Stable Dry Powder Vaccine Produced by Spray Drying  
Satoshi Ohtake, Ph.D., Scientist, Research and Development, Aridis Pharmaceuticals

11:30 Case Study: Stabilization of a Live Attenuated Respiratory Syncytial Virus Vaccine by Lyophilization and Spray Drying  
Yi Ai, Ph.D., Scientist II, Formulation Development, MedImmune, Inc.

12:00 pm Case Study: Developing a Stable Vaccine via Foam Drying  
Russell Martin, Research Associate II, Research & Development, Aridis Pharmaceuticals

12:30 Improving Freeze Drying and Spray Drying Processes Through Spatially Resolving Product Attributes  
Andrew P Parker, Ph.D., Associate Director, Molecular Profiles, Praxair

12:45 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

FREEZE DRYING AND SPRAY DRYING OF PEPTIDES FOR THERAPY

2:05 Examining Spray Drying Scale-Up Challenges with Peptide and Proteins Formulations  
Herman E. Snyder, Ph.D., PARSEC Solutions LLC, former Senior Research Fellow, Nektar Therapeutics

2:35 Particle Engineering of a GLP-1 Receptor Peptide Agonist by Spray Drying and Lyophilization, for Subcutaneous and Pulmonary Drug Delivery  
Feng Qian, Ph.D., Senior Research Investigator, Portfolio Enabling Technology, Biopharmaceuticals R&D, Bristol-Myers Squibb, Co.

2:55 Effects of Lyophilization on Thiol-disulphide Exchange  
Elizabeth Topp, Ph.D., Dane G. Kidig Professor and Department Head, Industrial Pharmacy and Pharmaceutics, Purdue University

Israel (Rudi) Rubinstein, M.D., Professor of Medicine and Biopharmaceutical Sciences Director, Respiratory Therapy, University of Illinois at Chicago

4:05 Close of PepTalk
SECOND ANNUAL

Protein Purification & Recovery

MONDAY, JANUARY 11

7:30 am - 8:45 am Registration and Morning Coffee

PROTEIN INTEGRITY

9:00 OPENING KEYNOTE PRESENTATION
Case Study: Evaluating a Series of Novel Conformases/Foldases for Their Ability to Enhance Heterologous Gene Expression in E.coli
Andrew Fedoroff, Ph.D., Research Investigator, Biological Reagents & Assay Development, GlaxoSmithKline

9:50 Refolding, Purification, and Characterization of the Ectodomain Complex of the CCR5 Receptor
Norcehan Abdul-Manan, Ph.D., Structural Biology, Vertex Pharmaceuticals, Inc.

10:20 Networking Coffee Break

USING SPECIALIZED EXPRESSION SYSTEMS

10:45 Expression and Purification of Human TRPV1 in Baculovirus-Infected Insect Cells for Structural Studies
Alla Korepanova, Ph.D., Senior Researcher, Department of Structural Biology, QPRD, Abbott Laboratories

11:15 Purification of Baculovirus Produced Proteins for Vaccine Application
Indresh Sinavast, Ph.D., Associate Director, Vaccines Research, Protein Biochemistry, Novartis Vaccines & Diagnostics, Inc.

11:45 Purification of Recombinant Protein from Transgenic Tobacco - Development of Non-Chromatographic Based Processes
Chenning (Mike) Zhang, Ph.D., Associate Professor, Biological Systems Engineering, Virginia Polytechnic Institute & State University

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

HIGHER THROUGHPUT

2:05 Model Assisted Scale-Up of Industrial Purification Processes
Jörg Thönnes, Ph.D., Director, Purification Development, Biogen Idec

2:35 Development of a "Chromatography-Array" System for High-Throughput Screening and Optimization of Affinity Ligands
Masahiro Iwakura, Ph.D., Principal Researcher, Institute for Biological Resources and Functions, National Institute of Advanced Industrial Science and Technology (AIST)

3:05 Parallel Micro-Scale Purification for Lead ID and Process Development/Optimization
William Gillette, Ph.D., Senior Scientist, Protein Expression Lab, SABIC-Frederick, NCI

3:35 Sponsored Presentation (Sponsorship Opportunity Available) or Lunch on Your Own

4:15 Multiple Routes for Production and Purification of Fab Fragments in Biopharmaceutical Development Research
Yanghong Zhao, Ph.D., Research Scientist, MDI, Centocor R&D, Inc.

4:45 Strategies for Streamlining the Development of Downstream Process for Enzyme Therapeutics
Ettie DiBella, Ph.D., Associate Director, Purification Process Development, Shire Human Genetic Therapies

5:15 High Throughput Protein A Wellplate Purification Method for Monoclonal Antibodies
Judy Chou, Ph.D., Senior Group Leader, Oceanside PR&D, Genentech, Inc.

5:45 Welcoming Reception in the Exhibit Hall

7:00 Close of Day

TUESDAY, JANUARY 12

7:30 am Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

TOOLS & TECHNOLOGIES

8:20 Recent Advances in Protease Assay Technology with "GFP-on-a-String"
William Ward, Ph.D., Associate Professor, Director, CREEB, Biochemistry Cook College, Rutgers University

8:50 Purification of Pegylated Proteins Using Ultrafiltration
Andrew Ziebly, Ph.D., Head, Chemical Engineering, College of Engineering, Pennsylvania State University

9:20 Endeo- and Exo-Proteolytic Removal of Affinity Tags
David S. Waugh, Ph.D., Chief, Protein Engineering Section, Macromolecular Crystallography Laboratory, National Cancer Institute, National Institutes of Health (NIH)

9:50 CaptureSelect® Affinity Ligands; A Purification Platform for Biotherapeutic Proteins, Fusions, and Antibody Constructs
Jim Hersmans, Director of Ligand Discovery, BAC b.v.

10:05 Networking Coffee Break in the Exhibit Hall

TAG TECHNOLOGIES

10:45 Epitope Affinity Purification of Polyclonal Antibodies to GST-Tagged Recombinant Proteins—One and Done
Dan B. Crimmins, Ph.D., Senior Scientist, Department of Pathology and Immunology, Division of Laboratory and Genomic Medicine, Washington University School of Medicine

11:15 In vivo Biotinylation Tags for Detection of Transient Protein Complexes and Posttranslational Modifiers
Pater Kaiser, Ph.D., Associate Professor, Department of Biological Chemistry, University of California, Irvine

11:45 Expression and Purification of Virulence Factors - A Novel Approach for Identifying Drug Targets for Autoimmune and Inflammatory Diseases
David Bienvenue, Ph.D., Senior Principal Scientist, VLIST Corporation

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

ENHANCING EXPRESSION

2:05 E. Coli Mutants Selected for Improved Protein Expression
James U. Bowie, Ph.D., Professor, University of California, Los Angeles

2:35 Membrane Protein Expression: Where Quality and Quantity Meet
Jean Puyanaire, Ph.D., Department of Pharmacology, University of Washington

3:05 Protocol Development for the Preparative Scale Cell-Free Production of High Quality Membrane Proteins
Frank Bernhard, Ph.D., Lab Leader, Institute of Biophysical Chemistry, Goethe-University Frankfurt

3:35 Combining Wheat Germ Cell-free Expression with HaloTag?: A Powerful Tool for Purification of Membrane Proteins
Sponsored by Rachel Friedman Osha, Ph.D., Senior Research Scientist, Promega

3:50 Networking Refreshment Break
Extraction, Expression & Purification

PURIFICATION
4:30 Purified Membrane Proteins in Drug Discovery
Arijan Snijder, Ph.D., Associate Principle Scientist, Cell Proteins and Structural Sciences, AstraZeneca

5:00 Ligand Binding Properties and Stability in Solution after Purification of the Human Hedgehog Receptors Patched (PTC) and Smoothened (SMO) Expressed in Yeast
Isabelle Mus-Verteau, Ph.D., Senior Scientist and Group Leader, Laboratoire de Physiologie Cellulaire et Moléculaire, LBPSI, Université de Nice – Sophia Antipolis, CNRS

5:30 Reception in the Exhibit Hall
6:30 Close of Day

THURSDAY, JANUARY 14

7:00 am Registration
7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

ENHANCING PROTEIN PROPERTIES
8:20 The Old Man and the Membrane
H. Ronald Kaback, Ph. D., Professor, Structural Studies & Biophysics, Physiology, University of California, Los Angeles

8:50 Facilitating G Protein-Coupled Receptor Crystallization Studies Through Stability and Biophysical Characterization
Michael Hanson, Ph.D., Scientist, Receptos, Inc.

9:20 Spectroscopic Studies of Anchoring Aromatic Residues in Membrane Proteins and Peptides: Applications to Protein Folding and Vesicle Disruption
Judy E. Kim, Ph.D., Assistant Professor, Department of Chemistry and Biochemistry, University of California, San Diego

9:50 Strategies for Membrane Protein Expression and Analysis
Frank Schäfer, Ph.D., Head of Protein Sciences, QIAGEN

10:05 Networking Coffee Break in the Exhibit Hall

ANALYTICAL APPROACHES TO SUPPORT MEMBRANE PROTEIN SCIENCE
10:45 Expression, Refolding, and Structure Determination of β-Barrel Membrane Proteins of Potential Therapeutic Interest
Lukas K. Tann, Ph.D., Professor, Molecular Physiology & Biological Physics, The University of Virginia

11:15 Labyrinths and Barrels: Inside Membrane Proteins
William A. Cramer, Ph.D., Distinguished Professor, Biological Sciences, Purdue University

11:45 Green Light for Membrane Proteins
Jan-Willem de Gier, Ph.D., Associate Professor & Group Leader, Center for Biomembrane Research, Stockholm University, Chief Technical Officer, Xbrane bioscience AB

12:15 pm Close of Morning Session
12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own
1:30 End of Membrane Proteins
Pipeline 3 Engineering Protein & Peptide Therapeutics

Sixth Annual Antibodies For the 21st Century

MONDAY, JANUARY 11

7:30 am - 8:45 am Registration and Morning Coffee

9:00 OPENING KEYNOTE PRESENTATION
Development, Maintenance and Life Cycle Management of Critical Reagents for Ligand Binding Assays
Denise M. O’Hara, Ph.D., Associate Director; PDM, Pfizer (formerly Wyeth)

9:50 Challenges of Using Ligand Binding Assays to Support Therapeutic Antibody Development
Joseph C. Marin, Ph.D., Associate Director of Pharmacokinetic Bioanalysis, Biologics Clinical Pharmacology, Centocor Research and Development, Inc., A Johnson and Johnson Company

10:20 Networking Coffee Break

TARGETING CANCER

10:45 Engineered Antibody Domains Against Cancer and Viruses
Dimitar Dimitrov, Ph.D., Senior Investigator, Protein Interaction Group, NCI, NIH

11:15 Targeting T Cells or Stem Cells with Chemically Heteroconjugated Bispecific Antibodies
Lawrence G. Lum, M.D., D.Sc., Professor of Medicine; Professor of Immunology and Microbiology, Scientific Director of Immunotherapy and BMT, Barbara Ann Karmanos Cancer Institute

11:45 Building a Diverse Portfolio of Immunotoxins for the Therapeutic Treatment of Solid Tumors
Jeannick Cizeau, Ph.D., Director, Research, Viventia Biotechnologies

12:15 P200 ScreenTape™: A Complete Automated At-line Analysis System, Ideally Suited to mAb and Protein Production
Adam Inche, Ph.D., Application Scientist, Lab901 Ltd.

12:30 Luncheon Presentation (Sponsorship Opportunity)/Lunch on Your Own

UNDERSTANDING AND ENHANCING ANTIBODY PROPERTIES

2:05 Why Bad Things Happen to Good Antibodies: Fc Gamma Receptors on Effector Cells Promote Concerted Removal of Monoclonal Antibody-Antigen Complexes from Targeted Cells
Ronald P. Taylor, Ph.D., Professor, Biochemistry and Molecular Genetics, The University of Virginia School of Medicine

2:35 Fab’ PEGylation Strategies
David P. Humphreys, Ph.D., Senior Group Leader, Antibodies, UCB Celltech

3:05 Human IgG1-Fc Rational Design Leads to an Increase in Anti-TLR4 Barrier Delivery
William M. Pardridge, M.D., Professor, Medical Endocrinology, University of California, Los Angeles; Chief Scientific Officer, AmDia Technologies, Inc.

3:35 Harnessing somatic hypermutation for human antibody discovery and optimization
David King, Ph.D., Vice President, Research, AnaptixBio, Inc.

3:50 Award Ceremony (Sponsorship Opportunity Available)

4:15 Antibody Human Adaptation, Specificity Determining Residues and Mutational Hotspots
Gopalak Raghunathan, Ph.D., Research Fellow, Antibody Design, Centocor Discovery Research

4:30 Sponsored Presentation (Sponsorship Opportunity Available)

5:05 Networking Coffee Break in the Exhibit Hall

5:10 Identification and Affinity Maturation of Angiogenesis Target Specific Antibodies from a Human Germline Library
Helen Mae, Ph.D., Chief Scientific Officer, Fabrus LLC

5:30 Developing a Novel Platform Technology for Generating Therapeutic Human mAbs
Rachel H. Kravitz, Ph.D., Director of Research, NeoClone Biotechnology

6:00 In-Line Radiolabeling: A Novel Continuous Flow System for Unlimited Protein Labeling
Missag Parseghian, Ph.D., Senior Director, R&D, Peregrine Pharmaceuticals, Inc.

6:15 Use of Disposable Label-Free Real-Time Biosensors in Screening C rude Antibodies
Yasmina Noudia Abdiche, Ph.D., Senior Principal Scientist, RiaLet Laboratories-Pfizer Inc.

6:30 Luncheon Presentation (Sponsorship Opportunity)/Lunch on Your Own

WEDNESDAY, JANUARY 13

7:00 am Registration for Recombinant Proteins

7:30 Breakfast Presentation (Sponsorship Opportunity Available)/Coffee

ENGINEERING FOR SUCCESS

8:15 Chairperson’s Opening Remarks
Rose Lance, Business Development Manager, Novozymes

8:20 OPENING KEYNOTE PRESENTATION
Multi-Specific Adnectins: Realizing the Promise of a Novel Class of Targeted Biologics
Eric Farvne, Ph.D., Senior Vice President, Research & Preclinical Development, Adnectus—a Bristol Myers Squibb R&D Company

9:00 Engineering TPR Repeat Proteins for in vivo and in vitro Applications
Lyne Regan, Ph.D., Professor, Molecular Biophysics & Biochemistry and Chemistry, Yale University

9:30 Computational Redesign of Receptor-Specific Ligands
John Karanicolas, Ph.D., Assistant Professor, Department of Molecular Biosciences, and Center for Bioinformatics, University of Kansas

10:00 Networking Coffee Break in the Exhibit Hall

EXTENDING HALF-LIFE & MITIGATING IMMUNOGENICITY

10:45 Protein Therapeutics with Long in vivo Half-Life and Low Immunogenicity by XTEN Fusion
Nathan Geethi, Ph.D., Scientist, Process Development, Amunix, Inc.

11:15 Albuminfusion—An Excellent Method to Extend the Half-life of Coagulation Factors
Stefan Schulteu, Ph.D., Head, R&D, CSL Behring Marburg GmbH

11:45 Affibody Albumin Binding Technology: A Tool for Half-Life Extension of Biopharmaceuticals
Joachim Feldwisch, Ph.D., Project Manager, Affibody AB

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity)/Lunch on Your Own

TARGETING DISEASE

2:05 Recombinant Crystalloids for Treatment of Multiple Sclerosis, Atherosclerosis, and Neurodegeneration
Lawrence Steinman, M.D., Professor, Neurology, Stanford University

2:35 Erythrocrupe-Targeted scFv-Fibronectin Fusions: Preclinical Studies of Prophylactic Thrombolysis
Vladimir Muczykantov, Ph.D., Associate Professor, Pharmacology, University of Pennsylvania

3:05 Latest Advances in Dual-Affinity Retargeting for Oncology and Autoimmunity
Syd Johnson, Ph.D., Vice President, Antibody Engineering, MacroGenics, Inc.

3:35 Sponsored Presentation (Sponsorship Opportunity Available)

3:50 Networking Refreshment Break
**Fusion Proteins & Beyond**

4:30 Altering the Tumor Microenvironment with Antibody Fusion Proteins for the Immunotherapy of Cancer
Alan L. Epstein, M.D., Ph.D., Professor, Pathology, Keck School of Medicine, University of Southern California

5:00 Recombinant Immunotoxins for the Treatment of Hematologic Malignancies
Robert J. Kreitman, M.D., Principal Investigator, Clinical Immunotherapy Section, National Cancer Institute (NCI), National Institutes of Health (NIH)

5:30 Reception in the Exhibit Hall

6:30 Close of Day

**Thursday, January 14**

7:00 am Registration

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

8:00 MANIPULATING PROTEIN PROPERTIES

8:20 Effect of Spacer Insertion on the Production, Biological Activity, and Pharmacokinetics of Recombinant Bispecific Fusion Proteins
Wei-Chiang Shen, Ph.D., John A. Biles Professor, Pharmacology & Pharmaceutical Sciences, School of Pharmacy, University of Southern California

8:50 8:50 Trans Signal Converter Proteins (TSCP) for the Treatment of Autoimmune Diseases and Cancer
Noam Shani, Ph.D., Chief Executive Officer, KAH Medical Ltd.

9:20 Determining the Role of Solubility Tags in Protein Expression for Fusion Proteins
Noelene Guiney, Ph.D., Manager, Biochemistry and Molecular Biology, Monash University

9:50 Human In Vitro Translation Systems for Rapid, High Fidelity Protein Production
Peter A. Bell, Sr. Director Proteomics R&D, Thermo Fisher Scientific

10:05 Networking Coffee Break in the Exhibit Hall

10:45 FIND (Fragment Induced Diversity)—Optimization of Proteins for Drug Delivery
Nuno Bandeira, Ph.D., Executive Director, Center for Computational Mass Spectrometry, University of California, San Diego

11:15 Multivalent and Bispecific Antibodies Generated by the Dock-and-Lock Method
David M. Goldenberg, M.D., Center for Molecular Medicine and Immunology, Garden State Cancer Center

11:45 Monomeric Fc Fusion Molecules with Improved Pharmacokinetics
Jennifer Dumont, Ph.D., Senior Director, Research & Development, Syntony Pharmaceuticals, a subsidiary of Biogen Idec

12:15 pm Close of Morning Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

1:30 Close of Recombinant Proteins

**Inaugural Peeptalks**

**Thursday, January 14**

1:15 pm Registration for Peeptalks

1:50 Peptidic Tumor Targeting Agents: On the Road from Phage Display Peptide Selections to Clinical Reagents
Kathleen C. Brown, Ph.D., Assistant Professor, Internal Medicine, Division of Translational Research & The Simmons Comprehensive Cancer Center, University of Texas Southwestern Medical School

2:20 Phylomer Libraries as a Rich Source of Potent Peptides in Phenotypic and Target-Directed Screens
Paul M. Watt, Ph.D., Chief Scientific Officer & Vice President, Corporate Development, Phyligica Ltd.

2:50 Immunotherapy Using Li-Key Modified Peptides for Increased, Antigen-Specific T Helper Cell Activation
Eric von Hofe, Ph.D., President, Research and Development, Antigen Express

3:20 Sponsored Presentation (Sponsorship Opportunity Available)

3:35 Networking Refreshment Break in the Exhibit Hall

4:30 Stapled Peptides: A New Class of Targeted Therapeutics
Vincent Guerlavais, Ph.D., Principal Scientist, Research, Aileron Therapeutics, Inc.

5:00 De novo Identification of Binding Sequences for Antibody Replacement Molecules
Kevin Clark, Ph.D., Director, Enabling Technologies, Corporate Research & Engineering, Isogenica Ltd.

5:30 De novo Sequencing of Nonribosomal Peptides
Nuno Bandeira, Ph.D., Executive Director, Center for Computational Mass Spectrometry, University of California, San Diego

6:00 Close of Day

**Friday, January 15**

7:00 am Registration

7:30 Breakfast Presentation (Sponsorship Opportunity Available) or Coffee

**Enhancing Delivery**

8:20 KEYNOTE PRESENTATION

Peptide Transduction Domain Delivery of Macromolecules: Tackling the siRNA Delivery Problem
Steven F. Dowdy, Ph.D., Professor, Cellular & Molecular Medicine, Howard Hughes Medical Institute, University of California, San Diego

**February 14, 2010**

8:50 Opening the Intracellular Target Universe to Peptide Therapeutics
Patrick S. Stayton, Ph.D., Professor, Department of Bioengineering, Washington Research Foundation, Washington University

9:20 cis Display: An in vitro Display Technology for the Selection of Therapeutic Peptides and Proteins
Chris Ullman, Ph.D., Chief Scientific Officer, Isogenica Ltd.

9:50 Sponsored Presentation (Sponsorship Opportunity Available)

10:05 Networking Coffee Break in the Exhibit Hall

10:45 Poster Awards in the Exhibit Hall

11:00 Development of a Cycled Conotoxin as an Orally Active Peptide Lead for the Treatment of Pain
David Crak, Ph.D., Professor, Institute for Molecular Bioscience, The University of Queensland

11:30 Drug Delivery Technologies and Product Life-Cycle Management
Bill Lambert, Ph.D., Senior Vice President, Pharmaceutical Development, Pacira Pharmaceuticals, Inc.

12:00 pm Non-Invasive Systemic Delivery of Peptides with High Bioavailability
Edward Maggio, Ph.D., President & CEO, Aegis Therapeutics LLC

12:20 Hitting the Nail on the Head: Engineering Novel Cyclic Antimicrobial Peptide Therapeutics for Onychomycosis
Deborah O’Neil, Ph.D., Founder & Chief Executive Officer, NovaBiotics Ltd.

12:40 Close of Morning Session

12:45 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

**Freeze Drying and Spray Drying of Peptides for Therapy**

2:05 Examining Spray Drying Scale-Up Challenges with Peptide and Proteins Formulations
Herman E. Snyder, Ph.D., PARSEC Solutions LLC; former Senior Research Fellow, Nektar Therapeutics

2:35 Particle Engineering of a GLP-1 Receptor Peptide Agonist by Spray Drying and Lyophilization, for Subcutaneous and Pulmonary Drug Delivery
Feng Gian, Ph.D., Senior Research Investigator II, Portfolio Enabling Technology, Biopharmaceutics R&D, Bristol-Myers Squibb, Co.

3:05 Effects of Lyophilization on Thiol-disulfide Exchange
Elizabeth Topp, Ph.D., Dane O. Kilding Professor & Department Head, Industrial Pharmacy & Pharmacaceutics, Purdue University

Israel (Rudi) Rubinstein, M.D., Professor of Medicine and Biopharmaceutical Sciences Director, Respiratory Therapy, University of Illinois at Chicago

4:05 Close of PepTalk

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Higher-Throughput Protein Expression

Thirteenth Annual
Enhancing Host Expression

**MONDAY, JANUARY 11**

**7:30 am - 8:45 am Registration and Morning Coffee**

**9:00 KEYNOTE PRESENTATION**

A Review of High Throughput Protein Production in Drug Discovery: Lessons Learned

Ian Hunt, Ph.D., Protein Structure Unit, Centre for Proteomic Chemistry, Novartis Institutes for BioMedical Research

9:50 General and Adaptable High-Throughput Approaches for the Optimization of Protein Expression

Ian Fotheringham, Ph.D., President, Ingenza Ltd.

10:20 Networking Coffee Break

10:45 Auditioning of CHO Host Cell Lines Using the Artificial Chromosome Expression (ACE) Technology

Malcolm I. Kennard, Ph.D., Kennard Biologic Consultants

11:15 Anti-Apoptotic Factors Improve Productivity of Monoclonal Antibodies from CHO Cells

Mark Levenstein, Ph.D., Scientific Director, Biochemistry, CDI Bioscience

11:45 Using the Pichia pastoris Genome(s) to Optimize Secreted Heterologous Protein Expression

Thomas Chappell, Ph.D., Founder and Principal Scientist, BioGrammatics, Inc.

**1:15 Luncheon Presentation II**

**2:05 TBA**

3:15 Poster Awards in the Exhibit Hall

4:15 Registration for Short Courses

4:45 Harnessing Proteomics to Engineer a Better Protein Expression System

Stephan P. Chambers, Ph.D., Department of Cell Biology, University of California, San Francisco

5:15 Micro-Algae as a Platform for the Production of Therapeutic Proteins

Steve P. Mayfield, Ph.D., Associate Dean, Department of Cell Biology, The Skaggs Institute

**5:45 Welcoming Reception in the Exhibit Hall**

**TUESDAY, JANUARY 12**

**7:30 am Breakfast Presentation**

**Advancing Synthetic Gene Design**

Mark Welch, Ph.D., Senior Scientist, DNA 2.0

**CASE STUDIES**

8:15 Chairperson’s Opening Remarks

Jill M. Carton, Ph.D., Antibody Drug Discovery, Centocor, Inc

8:20 Utilizing Multiple Expression Systems to Generate Proteins to Support Antibody Drug Discovery

Michael Naso, Ph.D., Principal Research Scientist, Discovery Research, Centocor, R&D, Inc.

8:50 Construction and Characterization of a Fully Active PXR/SRC-1 Tethered Protein with Increased Stability

Wenyang Yang, Ph.D., Principal Scientist, Structural Chemistry, Schering-Plough Research Institute

9:20 Red/ET Recombination: Efficient Genetic Engineering of E. coli/Hosts and Plasmids

Stephan Noll, Ph.D., Senior Scientist, Gene Bridges GmbH

9:50 Albumin Fusions: A Simple, Broad Platform for the Production of Proteins with Extended Circulatory Half-Life

Leslie Evans, Ph.D., Science Manager, R&D, Novozymes Biopharma

10:05 Networking Coffee Break in the Exhibit Hall

10:45 Expression and Characterization of Recombinant Human Secretary Leukocyte Protease Inhibitor (SLPI) Protein from Pichia pastoris

Geoffrey P Lin-Cereghino, Ph.D., Associate Professor, Department of Chemistry, University of the Pacific, Stockton

11:15 High-Level Protein Expression in Scalable CHO Transient Transfection

Jianxun Ye, Ph.D., Bioprocess Research & Development Merck & Co., Inc.

11:45 New Ways of Establishing Production Cell lines for Structural Biology

Konrad Büssow, Ph.D., Project leader, Structural Biology, Helmholtz Centre for Infection Research

12:15 Close of Session

12:30 Luncheon Presentation (Sponsorship Opportunity) or Lunch on Your Own

**3:35 Elucidating the Mechanism of Action of Complexes and Evaluate Design Strategies**

John Kulman, Ph.D., Assistant Member, Puget Sound Blood Center

**4:15 End of Enhancing Host Expression**

**4:15 Registration for Short Courses**

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For more information, please visit our website: [www.Chi-PepTalk.com](http://www.Chi-PepTalk.com)

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HOW TO REGISTER:

Please select the Short Course(s) you will attend:

**Sunday, January 10 (Select One)**
- [x] (SCI) Immunogenicity Assessment
- [ ] (SCI) Characterization and Analysis of Particulates

**Tuesday, January 12 (Select One)**
- [ ] (SCI) Specialized Protein Expression Systems
- [x] (SCI) Protein and Peptide Characterization to Quantitation
- [x] (SCI) Phage Display for Antibody and Peptide – Technical Tips & Guidelines

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**Conference Package Pricing**

Please select the package below based upon the number of conferences you will attend:

- [x] PREMIUM PACKAGE (Access to THREE conferences)
  - COMMERCIAL: $2,290
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- [x] BASIC PACKAGE (Access to ONE conference)
  - COMMERCIAL: $1,245
  - ACADEMIC, GOVT, HOSPITAL: $625

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**Short Course Pricing**

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- [x] COMMERCIAL: $50 off
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- [ ] Please send information on exhibiting and opportunities to present workshops.

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**PROGRAM & SPEAKERS**

- **Pipeline 1: Formulating Biologies: Meeting the Challenges**
  - **Optimizing Biologies Formulation Development** Monday, January 11 - Tuesday, January 12
  - **Protein Aggregation** Wednesday, January 13 - Thursday, January 14
  - **Lyophilization & Spray Drying** Thursday, January 14 - Friday, January 15

- **Pipeline 2: Bioprocessing: Streamlining Complexity**
  - **Protein Purification & Recovery** Monday, January 11 - Tuesday, January 12
  - **Membrane Proteins** Monday, January 13 - Tuesday, January 14
  - **Protein Production** Thursday, January 14 - Friday, January 15

- **Pipeline 3: Engineering Protein & Peptide Therapeutics**
  - **Antibodies** Monday, January 11 - Tuesday, January 12
  - **Recombinant Proteins** Monday, January 13 - Tuesday, January 14
  - **Peptides** Friday, January 14 - Friday, January 15

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Cambridge Healthtech Institute encourages attendees to gain further exposure by presenting their work in the poster sessions. To secure a poster board and inclusion in the conference materials, your abstract must be submitted, approved and your registration paid in full by December 4, 2009. Register online, or by phone, fax or mail. Indicate that you would like to present a poster and you will receive abstract submission instructions via email.

- [ ] I am interested in presenting a poster at PepTalk

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- Transfer your registration to a colleague within your organization. Credit your registration to another Cambridge Healthtech Institute program.
- Request a refund minus the cost ($750) of ordering a copy of the CD.
- Request a refund minus the cost ($750) for conference room space.

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**Payment Information**

- [x] Enclosed is a check or money order payable to Cambridge Healthtech Institute, drawn on a U.S. bank, in U.S. currency.
- [ ] Invoice me, but reserve my space with credit card information listed below. Invoices unpaid two weeks prior to conference will be billed to credit card at full registration rate. Invoices must be paid in full and checks received by the deadline date to retain registration discount.
- [ ] I cannot attend but would like to purchase the PepTalk conference CD for $750 (plus shipping). Massachusetts delivery will include 6.25% sales tax.
- [ ] Please send information on exhibiting and opportunities to present workshops.

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