

ANDREW BRADBURY

The Second Annual  
IBC International Conference on

# ANTIBODY ENGINEERING

*December 16-18, 1991 • Omni San Diego Hotel • San Diego, CA*

Organized by:



International Business Communications

IBC USA Conferences Inc. • 8 Pleasant Street, Bldg. D • South Natick, Mass. 01760  
(508) 650-4700

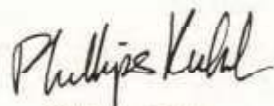
# WELCOME

IBC USA Conferences welcomes you to Antibody Engineering.

No meeting is truly successful if it simply serves the purpose of transferring information. We hope the interactions between the speakers and the audience will help you gain insights that you can use today.

We strongly encourage your participation throughout the conference and have allowed time for you to pose questions to the speakers. Ample time for informal interactions has also been allocated throughout the day. These encounters will complement both the speaker presentations and the written material.

Our staff members are available throughout the conference to provide assistance. Please do not hesitate to call on us. We thank you for joining us!



Phillips Kuhl  
Conference Director



Gail Scho  
Conference Manager



Christine Andrews  
Conference Coordinator



Susan Hamano  
Conference Coordinator

*IBC USA Conferences*

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*Note: Delegates are required to wear their badges at all times. Those without their badges will not be admitted.*

# ANTIBODY ENGINEERING

## Schedule of Events

Welcome & Introduction • Speaker Contacts • Speaker Presentations

**Sunday, December 15, 1991**

8:30 p.m.-10:30 p.m. *Early Registration*

**Monday, December 16, 1991**

7:00 a.m.-8:30 a.m. *Registration, Poster Set-up & Coffee*

### ENGINEERING TO AVOID HAMA

- 8:30 **CHAIRMAN'S OPENING REMARKS**  
Dr. Sherie L. Morrison, *Professor of Microbiology and Molecular Genetics, Member of the Molecular Biology Institute, UCLA*
- 8:35 **HUMANIZED ANTIBODIES FOR THERAPY**  
Dr. Cary Queen, *Vice President, Research, Protein Design Labs, Inc.*
- 9:05 **FRAMEWORK CHOICE & RESIDUE SUBSTITUTION FOR HUMANIZED VENEERED ANTIBODIES**  
Dr. George E. Mark III, *Director, Cellular & Molecular Biology, Merck Sharp & Dohme Research Laboratories*
- 9:35 **USE OF A VACCINIA/T7 SYSTEM TO RAPIDLY ANALYZE HUMANIZED & OTHER ENGINEERED SINGLE-CHAIN FV'S**  
Dr. Syd Johnson, *Research Scientist, MedImmune, Inc.*
- 10:05 *Refreshment Break & Posters*
- 10:45 **FUNCTIONAL ANALYSIS OF HUMANIZED OKT3 & OKT4A**  
Dr. Robert A. Zivni, *Principal Scientist, Biotech, R. W. Johnson Pharmaceutical Research Institute*
- 11:15 **BIOACTIVE PEPTIDE DESIGN BASED ON ANTIBODY HYPERVARIABLE REGION STRUCTURE**  
Dr. William V. Williams, *Department of Medicine, University of Pennsylvania School of Medicine*
- 11:45 **ORAL PRESENTATION OF SELECTED POSTERS**
- 12:00 **PANEL DISCUSSION**
- 12:30 *Luncheon*

### EXPRESSION & ENGINEERING

- 1:45 **CHAIRMAN'S REMARKS**  
Dr. James D. Marks, *Research Scientist, Medical Research Council (U.K.)*
- 1:50 **ANTIBODY ENGINEERING BY ENZYMATIC INVERSE PCR**  
Dr. Willem P. C. Stemmer, *Senior Research Scientist, Hybritech, Inc.*
- 2:20 **MAKING HUMAN ANTIBODIES USING PHAGE SELECTION**  
Dr. James D. Marks



- 2:50 **IN VITRO AFFINITY MATURATION BY SITE DIRECTED MUTAGENESIS**  
Dr. William D. Huse, *Chief Scientific Officer, IXSYS, Inc.*
- 3:20 *Refreshment Break & Posters*
- 4:00 **ANTIBODY ENGINEERING FOR MICROBIAL EXPRESSION & THERAPEUTIC USE**  
Dr. Arnold H. Horwitz, *Director of Molecular Microbiology, XOMA Corporation*
- 4:30 **RECENT ADVANCES WITH CATALYTIC ANTIBODIES**  
Dr. Mark A. Gallop, *Staff Scientist, Bioorganic Chemistry, Affymax Research Institute*
- 5:00 **ORAL PRESENTATION OF SELECTED POSTERS**
- 5:15 **PANEL DISCUSSION**
- 5:45 *Close of Day One*

**Tuesday, December 17, 1991**

- 7:30 *Coffee & Posters*

**BI-SPECIFIC & BI-FUNCTIONAL**

- 8:00 **CHAIRMAN'S REMARKS**  
Dr. Sherie L. Morrison, *Professor of Microbiology and Molecular Genetics. Member of the Molecular Biology Institute. UCLA*
- 8:05 **OVERCOMING ANTIBODY BLOCKAGE USING BI-SPECIFIC ANTIBODIES**  
Dr. Nathan B. Dinces, *Vice President, Medarex, Inc.*
- 8:35 **RESEARCH & CLINICAL EXPERIENCE WITH BI-SPECIFIC ANTIBODIES**  
Dr. Joesph G. Major, *Senior Research Scientist, Hybritech, Incorporated*
- 9:05 **TARGETING CYTOTOXICITY WITH A BI-SPECIFIC ANTIBODY DIRECTED TO C-ERB-2 & HUMAN FC $\gamma$  RECEPTOR III**  
Dr. David B. Ring, *Senior Scientist, Director, Department of Immunology, Cetus Corporation*
- 9:35 *Refreshment Break & Posters*
- 10:15 **PRODUCTION OF A SINGLE-CHAIN BI-SPECIFIC ANTIBODY**  
Dr. Andrew J. T. George, *Experimental Immunology Branch, National Cancer Institute, National Institutes of Health*
- 10:45 **GENETIC ENGINEERING OF ANTIBODIES FOR NOVEL FUNCTIONS**  
Dr. Sherie L. Morrison
- 11:15 **ORAL PRESENTATION OF SELECTED POSTERS**
- 11:30 **PANEL DISCUSSION**
- 12:00 *Lunch Break*

**HUMAN MONOCLONALS**

- 1:15 **CHAIRMAN'S REMARKS**  
Dr. Mark C. Glassy, *Editor-in-Chief, Human Antibodies and Hybridomas and President, Sci-Clone, Inc.*
- 1:20 **HUMAN MONOCLONAL IMAGINEERING**  
Dr. Mark C. Glassy
- 1:50 **HUMAN ANTIBODIES BY REPERTOIRE CLONING**  
Dr. Carlos F. Barbas, *Assistant Professor, Scripps Research Institute*

- 2:20 **PRODUCTION & APPLICATION OF HUMAN MONOCLONAL ANTIBODIES**  
Dr. S. M. Iwasa, *Research Manager, Biology Research Laboratories, Takeda Chemical Industries, Ltd.*
- 2:50 *Refreshment Break & Posters*
- 3:30 **IN VITRO IMMUNIZATION METHODS FOR PRODUCTION OF HUMAN IGG MONOCLONAL ANTIBODIES**  
Dr. Paula Boerner, *Director of Cell Biology, IXSYS, Inc.*
- 4:00 **DEVELOPMENT OF A HUMAN IMMUNOGLOBULIN TRANSGENIC MOUSE**  
Dr. Nils Lonberg, *Senior Scientist, GenPharm International*
- 4:30 **ORAL PRESENTATION OF SELECTED POSTERS**
- 4:45 **PANEL DISCUSSION**
- 5:15 **POSTERS**
- 6:00 *Cocktail Reception*
- 7:30 *Close of Day Two*

**Wednesday, December 18, 1991**

- 7:30 *Coffee & Posters*

**CLINICAL EXPERIENCE**

- 8:00 **CHAIRMAN'S REMARKS**  
Dr. Albert F. LoBuglio, *Director, Comprehensive Cancer Center, Professor of Medicine, University of Alabama at Birmingham*
- 8:05 **PHARMACOKINETICS & IMMUNE RESPONSE OF MURINE & CHIMERIC ANTIBODIES**  
Dr. Albert F. LoBuglio
- 8:35 **CLINICAL EXPERIENCE WITH THE L6 ANTI-CARCINOMA ANTIBODY**  
Dr. Dale E. Yelton, *Scientist, Bristol-Myers Squibb Pharmaceutical Research Institute*
- 9:05 **CLINICAL RESULTS WITH CHIMERIC & HUMAN MONOCLONAL ANTIBODIES**  
Dr. James N. Woody, *Senior Vice President, Centocor, Inc.*
- 9:35 *Refreshment Break and Posters*
- 10:15 **PATIENT RESPONSE TO CHIMERIC B72.3**  
Dr. Terry S. Baker, *Principal Scientist, Celtech, Ltd.*
- 10:45 **INTERNAL IMAGE ANTIGENS AS THERAPEUTIC MODALITIES FOR CANCER & INFECTIOUS DISEASES**  
Dr. Samuel D. Waksal, *President and CEO, ImClone Systems Inc.*
- 11:15 **ORAL PRESENTATION OF SELECTED POSTERS**
- 11:30 **PANEL DISCUSSION**
- 12:00 *Close of Conference*

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