Introduction

Introduction to the Eleventh Conference on Cancer Therapy with Antibodies and Immunoconjugates
David M. Goldenberg

Session I: New Antibodies and Approaches

Moderators: Alan L. Epstein, Eric K. Rowinsky, and Robert M. Sharkey

Cell Cycle Disturbances and Mitotic Catastrophes in HeLa Hep2 Cells following 2.5 to 10 Gy of Ionizing Radiation
David Eriksson, Per-Olov Löfroth, Lennart Johansson, Katrine Åhlström Riklund, and Torgny Stigbrand

The La Autoantigen Is a Malignancy-Associated Cell Death Target That Is Induced by DNA-Damaging Drugs
Fares Al-Ejeh, Jocelyn M. Darby, and Michael P. Brown

In vivo Targeting of Dead Tumor Cells in a Murine Tumor Model Using a Monoclonal Antibody Specific for the La Autoantigen

Bortezomib Sensitizes Non–Hodgkin’s Lymphoma Cells to Apoptosis Induced by Antibodies to Tumor Necrosis Factor–Related Apoptosis-Inducing Ligand (TRAIL) Receptors TRAIL-R1 and Trail-R2
Mitchell R. Smith, Fang Jin, and Indira Joshi

Combination Treatment with TRA-8 Anti–Death Receptor 5 Antibody and CPT-11 Induces Tumor Regression in an Orthotopic Model of Pancreatic Cancer
Leo Christopher DeRosier, Donald J. Buchsbaum, Patsy G. Oliver, Zhi-Qiang Huang, Jeffrey C. Sellers, William E. Grizzle, Wenquan Wang, Tong Zhou, Kurt R. Zinn, Joshua W. Long, and Selwyn M. Vickers

Review: Monoclonal Antibodies to the Vascular Endothelial Growth Factor Receptor-2 in Cancer Therapy
Hagop Youssoufian, Daniel J. Hicklin, and Eric K. Rowinsky

IMC-A12, a Human IgG1 Monoclonal Antibody to the Insulin-Like Growth Factor I Receptor

CD74: A New Candidate Target for the Immunotherapy of B-Cell Neoplasms
Rhona Stein, M. Jules Mattes, Thomas M. Cardillo, Hans J. Hansen, Chien-Hsing Chang, Jack Burton, Serengulam Govindan, and David M. Goldenberg

A Divalent Hapten-Peptide Induces Apoptosis in Human Non–Hodgkin Lymphoma Cell Lines Targeted by Anti-CD20 × Anti-Hapten Bispecific Antibodies

Session II: Pretargeting

Moderators: Jean-François F. Chatal and Oliver W. Press

Improved Tumor Targeting and Decreased Normal Tissue Accumulation through Extracorporeal Affinity Adsorption in a Two-Step Pretargeting Strategy
Linda Mårtensson, Rune Nilsson, Tomas Ohlsson, Hans-Olov Sjögren, Sven-Erik Strand, and Jan Tennvall

The Dock and Lock Method: A Novel Platform Technology for Building Multivalent, Multifunctional Structures of Defined Composition with Retained Bioactivity
Chien-Hsing Chang, Edmund A. Rossi, and David M. Goldenberg

Pathology Underrates Colon Cancer Extranodal and Nodal Metastases; Ex vivo Radioimmunodetection Helps Staging

Pretargeted Radioimmunotherapy for B-Cell Lymphomas
Damian J. Green, John M. Pagel, Anastasia Pantelias, Nathan Hedin, Yukang Lin, D. Scott Wilbur, Ajay Gopal, Donald K. Hamlin, and Oliver W. Press

Session III: Imaging and Therapy
Moderators: Steven M. Larson, Claude Meares, Stanley J. Goldsmith, and Richard L. Wahl

Radioimmunotherapy with α-Particle–Emitting 213Bi-C-Functionalized trans-Cyclohexyl-Diethylenetriaminepentaacetic Acid–Humanized 3S193 Is Enhanced by Combination with Paclitaxel Chemotherapy
Marcus P. Kelly, Fook T. Lee, Kiki Tahtis, Fiona E. Smyth, Martin W. Brechbiel, and Andrew M. Scott

Binding Activities and Antitumor Properties of a New Mouse/Human Chimeric Antibody Specific for GD2 Ganglioside Antigen

Selective High-Affinity Ligand Antibody Mimics for Cancer Diagnosis and Therapy: Initial Application to Lymphoma/Leukemia
Rod Balhorn, Saphon Hok, Patricia A. Burke, Felice C. Lightstone, Monique Cosman, Adam Zemla, Gary Mirick, Julie Perkins, Arutselvan Natarajan, Michele Corzett, Sally I. DeNardo, Huguette Albrecht, Jeff P. Gregg, and Gerry L. DeNardo

Comparative Evaluation of Capsular Polysaccharide-Specific IgM and IgG Antibodies and F(ab')2, and Fab Fragments as Delivery Vehicles for Radioimmunotherapy of Fungal Infection
Ekaterina Dadachova, Ruth A. Bryan, Xianchun Huang, Geraldina Ortiz, Tiffany Moadel, and Arturo Casadevall

Session IV: Clinical Therapy
Moderators: Louis Weiner, Ruby Meredith, and John P. Leonard

Phase I to III Trials of Anti–B Cell Therapy in Non–Hodgkin’s Lymphoma
Peter Martin, Richard R. Furman, Morton Coleman, and John P. Leonard

Brief Overview of Preclinical and Clinical Studies in the Development of Intraperitoneal Radioimmunotherapy for Ovarian Cancer
Ruby F. Meredith, Donald J. Buchsbaum, Ronald D. Alvarez, and Albert F. LoBuglio

Intraoperative Avidination for Radionuclide Therapy: A Prospective New Development to Accelerate Radiotherapy in Breast Cancer
Giovanni Paganelli, Mahila Ferrari, Laura Ravasi, Marta Cremonesi, Concetta De Cicco, Viviana Galimberti, Gregory B. Sivolapenko, Alberto Luini, Rita De Santis, Laura Lavinia Travaini, Maurizio Fiorenza, Marco Chinol, Stefano Papi, Claudio Zanna, Paolo Carminati, and Umberto Veronesi
A Phase I Study of 90Yttrium-Ibritumomab-Tiuxetan in Children and Adolescents with Relapsed/Refractory CD20 Positive Non–Hodgkin’s Lymphoma: A Children’s Oncology Group Study
Erin Cooney-Qualter, Mark Krailo, Anne Angiolillo, Rashid A. Fawwaz, Gregory Wiseman, Lauren Harrison, Virginia Kohl, Peter C. Adamson, Janet Ayello, Carmella vande Ven, Sherrie L. Perkins, and Mitchell S. Cairo

About the Cover
A number of different topics were discussed at the 11th Conference. A new human antibody to the insulin-growth factor I receptor (IGF-IR), which can block downstream MAPK and P13/akt pathways, was presented (A, Rowinsky et al. on page 5549s in this issue). This antibody shows promising anti-tumor activity in animal models alone and in combination with chemotherapy. Innovative antibody constructs, including selective high affinity ligand (SHAL) antibody mimics targeting HLA-DR10 (B, Balhorn et al. on page 5621s in this issue), and a new platform for preparing multivalent, multifunctional bispecific antibodies using a newly described Dock and Lock procedure (C, Chang et al. on page 5586s in this issue) were presented. Microscopic human colon cancer as small as 0.3 mm were disclosed in the lungs using microPET imaging, and autoradiography illustrated the selective uptake in the metastatic tumors (D, Sharkey et al. on page 5577s in this issue). Multivalent bispecific antibodies prepared by the Dock and Lock procedure were used in a pretargeting setting for targeting radionuclides (E, Sharkey et al. on page 5577s in this issue).