

**8:00 a.m.-10:00 a.m. Educational Sessions**

**Animal Models for Chemoprevention**, Stephen S. Hecht, Chairperson, Room 103, Washington Convention Center, p. 69

**Causes of Human Cancer**, Vincent Cogliano, Chairperson, Room 143, Washington Convention Center, p. 69

**Diversity of Stromal Fibroblasts and Their Role in Cancer**, Michael C. Ostrowski, Chairperson, Room 151, Washington Convention Center, p. 70

**From Chemistry to the Clinic, Part 1: The Academic/Foundation/Industry Interface**, Laurence H. Hurley, Chairperson, Room 147, Washington Convention Center, p. 70

**Imaging the Metastatic Process**, Barbara M. Fingleton, Chairperson, Room 202, Washington Convention Center, p. 71

**New Targets and Novel Drugs for microRNAs and the Epigenetics Machinery**, Manel Esteller, Chairperson, Room 207, Washington Convention Center, p. 71

**Nutrition, Obesity, and Cancer**, Adriana Albini, Chairperson, Room 201, Washington Convention Center, p. 72

**RANK Ligand (RANKL) Inhibitors for the Treatment of Skeletal Complications of Cancer**, William C. Dougall, Chairperson, Room 152, Washington Convention Center, p. 72

**Systems and Network Biology of Cancer**, Yosef Yarden, Chairperson, Room 144, Washington Convention Center, p. 73

**Tumor Immunology for the Non-Immunologist**, Olivera J. Finn, Chairperson, Ballroom C, Washington Convention Center, p. 73

**8:00 a.m.-10:00 a.m. Methods Workshops**

**Building and Analyzing Three-Dimensional Epithelial Cancer Models**, Jayanta Debnath, Chairperson, Room 150, Washington Convention Center, p. 74

**Clinical Trial Design in the Era of Personalized Medicine**, Donna S. Neuberg, Chairperson, Room 145, Washington Convention Center, p. 74

**Genomics and miRNAs: What's New under the Sun**, George A. Calin, Chairperson, Room 146, Washington Convention Center, p. 75

**8:00 a.m.-10:00 a.m. Professional Advancement Series Session**

**Women in Cancer Research: Navigating YOUR Career Path**, Alison L. Allan and Sonya D. Zabludoff, Co-Chairpersons, Renaissance Ballroom West A, Renaissance Washington Hotel, p. 76

**9:00 a.m.-3:00 p.m. Cancer and Biomedical Research Career Fair**

East Hall, Washington Convention Center, p. 76

**10:00 a.m.-12:00 p.m. Special Session**

**Tumor Immunology for the Non-Immunologist**, Room 149, Washington Convention Center, p. 77

## Saturday, April 17

### 10:15 a.m.-12:15 p.m. Educational Sessions

**Angiogenesis: Still Crazy after All These Years**, Lee M. Ellis, Chairperson, Room 152, Washington Convention Center, p. 78

**Cancer Stem Cells and Treatment Resistance**, Jeremy N. Rich, Chairperson, Ballroom C, Washington Convention Center, p. 78

**Cancer Susceptibility Genes and Modifiers**, Mary J. Hendrix, Chairperson, Room 103, Washington Convention Center, p. 79

**Cell Metabolism and Cancer**, Reuben J. Shaw, Chairperson, Room 207, Washington Convention Center, p. 79

**Chaperones as Therapeutic Targets: Beyond Hsp90**, Linda M. Hendershot, Chairperson, Room 144, Washington Convention Center, p. 80

**Current Topics in Research for Cancer Prevention**, Christine B. Ambrosone, Chairperson, Room 204, Washington Convention Center, p. 80

**From Chemistry to the Clinic, Part 2: Pharmacokinetics in Cancer Drug Discovery and Development**, Andrew P. Krivosik, Chairperson, Room 147, Washington Convention Center, p. 81

**microRNAs and Their Binding in Cancer Risk and Development**, Joanne B. Weidhaas, Chairperson, Room 202, Washington Convention Center, p. 81

**Myeloid-Derived Suppressor Cells: A Major Obstacle to Cancer Immunotherapy**, Suzanne Ostrand-Rosenberg, Chairperson, Room 145, Washington Convention Center, p. 82

**Posttranslational Modifications: A Primer**, Mary-Ann Bjornsti, Chairperson, Room 201, Washington Convention Center, p. 82

**Site-Specific Metastasis**, Patricia S. Steeg, Chairperson, Room 146, Washington Convention Center, p. 83

### 10:15 a.m.-12:15 p.m. Methods Workshops

**Clinical Trial Design: The Challenges of Middle Development (Phase II)**, Susan G. Groshen, Chairperson, Room 150, Washington Convention Center, p. 84

**Imaging Methods for Preclinical Models of Cancer**, James P. Babilion, Chairperson, Room 151, Washington Convention Center, p. 84

**Nonmammalian Models of Cancer**, Julio A. Aguirre-Ghiso and Ross L. Cagan, Co-Chairpersons, Room 143, Washington Convention Center, p. 85

### 12:00 p.m.-4:00 p.m. Professional Advancement Series Session

**5th Annual Undergraduate Student Caucus and Poster Competition**, Stewart Sell, Chairperson, Congressional Hall A-B, Renaissance Washington Hotel, p. 86

### 12:00 p.m.-5:00 p.m. Professional Advancement Series Session

**13th Annual Grant Writing Workshop**, Independence F-I, Washington Grand Hyatt Hotel, p. 87

### 1:00 p.m.-3:00 p.m. Educational Sessions

**Cancer Microenvironment: Roles of Bone Marrow-Derived Cells**, Makoto M. Taketo, Chairperson, Room 202, Washington Convention Center, p. 88

**Cellular Responses to DNA Damage: Signaling, Repair, and Tolerance**, Kristin A. Eckert, Chairperson, Room 144, Washington Convention Center, p. 88

**DCIS: An Evolving Case Study for Personalized Medicine**, Gary J. Kelloff, Chairperson, Room 204, Washington Convention Center, p. 89

**Extracellular Matrix and Cancer: Composition and Architecture**, Mary M. Zutter, Chairperson, Room 145, Washington Convention Center, p. 89

**From Chemistry to the Clinic, Part 3: Chemical Development –Translating a Potent Agent into a Registered Product**, Stephen A. Munk, Chairperson, Room 147, Washington Convention Center, p. 90

**New Perspectives in Pediatric Cancer: From Preclinical Models to Targeted Therapies**, Victor M. Santana, Chairperson, Room 201, Washington Convention Center, p. 90

**Niches for Metastatic Cells and Stem Cells**, Amato J. Giaccia, Chairperson, Room 146, Washington Convention Center, p. 91

**Pharmacogenomics and Personalized Medicine**, M. E. Dolan, Chairperson, Room 152, Washington Convention Center, p. 91

**Transcriptional Coregulators, Chromatin, and Cancer**, Rakesh Kumar, Chairperson, Room 143, Washington Convention Center, p. 92

### 1:00 p.m.-3:00 p.m.      **Methods Workshops**

**Circulating Tumor Cells as Novel Tumor Biomarkers**, Evi S. Lianidou, Chairperson, Ballroom C, Washington Convention Center, p. 93

**Measuring the Cancer Metabolome**, Joshua D. Rabinowitz, Chairperson, Room 207, Washington Convention Center, p. 93

**Mouse Models of Invasion and Metastasis**, Yibin Kang, Chairperson, Room 151, Washington Convention Center, p. 94

**Nanotoxicology: How to Assess Nanoparticle-Induced Toxicity**, C. Lang Tran, Chairperson, Room 150, Washington Convention Center, p. 94

**Scientifically Significant Challenges for the Future of Translational Medicine: A View from the Trenches**, Pedro R. Lowenstein, Chairperson, Room 103, Washington Convention Center, p. 95

### 2:00 p.m.-4:30 p.m.      **Professional Advancement Series Session**

**Women in Cancer Research: Intellectual Property and Entrepreneurship**, Leslie I. Gold and Ann D. Thor, Co-Chairpersons, Renaissance Ballroom West A, Renaissance Washington Hotel, p. 96

### 3:15 p.m.-4:15 p.m.

### Meet-the-Expert Sessions

**Advances in Imaging Immune Responses *In vivo***, Michael Dustin, Room 201, Washington Convention Center, p. 97

**Cell Plasticity in Metastasis**, Lynne-Marie Postovit, Room 146, Washington Convention Center, p. 97

**Combining Pathology and Genetics in Breast Cancer**, Marc J. Van de Vijver, Room 151, Washington Convention Center, p. 97

**Lymphatics and Lymphoid Chemokines in Tumor Immunity**, Melody A. Swartz, Room 143, Washington Convention Center, p. 98

**Mononuclear Phagocyte Response in Cancer: Analysis in Context**, Mikael J. Pittet, Room 102, Washington Convention Center, p. 98

**Nonsteroidal Anti-inflammatory Drugs: Chemoprevention, Cancer Therapy, and Biomarker Development**, Andrew J. Dannenberg, Room 144, Washington Convention Center, p. 98

**Pharmacogenetic and Epidemiological Studies in Cooperative Group Trials**, Christine B. Ambrosone, Room 103, Washington Convention Center, p. 98

**Systematic Identification of Cancer Genes Using RNAi**, David E. Root, Room 152, Washington Convention Center, p. 99

**The Promise and Limitations of Kinase Inhibitors**, Neil P. Shah, Room 207, Washington Convention Center, p. 99

**Visualizing Cells and Viruses at Molecular Resolution with 3-D Electron Microscopy**, Sriram Subramaniam, Room 206, Washington Convention Center, p. 99

## Saturday, April 17

### 3:15 p.m.-5:15 p.m. Educational Sessions

**From Chemistry to the Clinic, Part 4: Applications of New Technologies to Drug Discovery**, Michael J. Luzzio, Chairperson, Room 147, Washington Convention Center, p. 100

**PARP Inhibitors and Synthetic Lethality**, A. H. Calvert, Chairperson, Room 202, Washington Convention Center, p. 101

### 3:15 p.m.-5:15 p.m. Methods Workshop

**Next-Generation Sequencing: Data Analysis and Applications**, Victor E. Velculescu, Chairperson, Room 145, Washington Convention Center, p. 102

### 4:30 p.m.-5:30 p.m. Meet-the-Expert Sessions

**Adoptive Immunotherapy of Cancer**, Steven A. Rosenberg, Room 204, Washington Convention Center, p. 103

**Clinical Trial Design for Basic Scientists**, Emily K. Bergsland, Room 143, Washington Convention Center, p. 103

**Combining Adoptive Cell Therapy and Nanoparticle Drug Delivery for Enhanced Cancer Immunotherapy: Using Antigen-Specific “Pharmacocytes” to Target Nanoparticles to Tumors**, Darrell J. Irvine, Room 201, Washington Convention Center, p. 103

**Exploiting and Antagonizing microRNA for Therapeutic Applications**, Luigi Naldini, Room 152, Washington Convention Center, p. 103

**Functional Breast Cancer Genomics**, Joe W. Gray, Room 146, Washington Convention Center, p. 104

**How Do Cancer Cells Deal with Stress: A Systems Approach**, Lawrence J. Marnett, Room 144, Washington Convention Center, p. 104

**Protein-Tyrosine Phosphatases in Human Cancer**, Benjamin G. Neel, Room 150, Washington Convention Center, p. 104

**Reducing Attrition and Enhancing Efficiency in Cancer Drug Development**, James H. Doroshow, Room 103, Washington Convention Center, p. 105

**Regulation of Glutathione and Glutathione S-transferases by Transcription Factor Nrf2**, John D. Hayes, Room 206, Washington Convention Center, p. 105

**Targeting Myc for Cancer Therapy**, Gerard I. Evan, Room 207, Washington Convention Center, p. 105

### 5:30 p.m.-6:30 p.m. Lecture

**Sixth Annual AACR-Irving Weinstein Foundation Distinguished Lecture**, Robert Tjian, Ballroom A-B, Washington Convention Center, p. 106

### 5:30 p.m.-6:30 p.m. Special Session

**Love/Avon Army of Women Panel Discussion**, Room 151, Washington Convention Center, p. 107

### 5:30 p.m.-6:45 p.m. Lecture

**Thirteenth AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship**, Elaine V. Fuchs, Ballroom C, Washington Convention Center, p. 108

### 5:30 p.m.-7:45 p.m. Professional Advancement Series Session

**Careers in Clinical and Translational Cancer Research**, George D. Demetri, Chairperson, Grand Ballroom-North and Central, Renaissance Washington Hotel, p. 109

**7:00 a.m.-8:00 a.m. Meet-the-Expert Sessions**

**Childhood and Adolescence Exposures as Determinants of Lifetime Cancer Risk**, Graham A. Colditz, Room 103, Washington Convention Center, p. 117

**Costimulation of Tumor Immunity**, Lieping Chen, Room 143, Washington Convention Center, p. 117

**Emerging Targets in Cancer: Development of Hedgehog Pathway Inhibitors**, Frederic J. de Sauvage, Room 202, Washington Convention Center, p. 117

**Hormones and Risk and Prevention of Breast, Endometrial, and Ovarian Cancer**, Malcolm C. Pike, Room 152, Washington Convention Center, p. 117

**Magnetic Resonance Metabolic and Physiological Imaging of Cancer**, Sarah J. Nelson, Room 145, Washington Convention Center, p. 118

**Mechanobiology and Tumor Progression**, Valerie M. Weaver, Room 150, Washington Convention Center, p. 118

**New Kidney Cancer Strategies Emerging from Studies of the VHL Tumor Suppressor Protein**, William G. Kaelin Jr., Room 147, Washington Convention Center, p. 118

**Personalized Oncology Medicine: Towards Biologically Driven Clinical Decision Making in Oncology**, David R. Parkinson, Room 151, Washington Convention Center, p. 119

**RNAi: From Discovery to Use in the Clinic**, Mark E. Davis, Room 207, Washington Convention Center, p. 119

**Targeting Signaling Pathways and Molecular Alterations in Breast Cancer**, Nancy E. Hynes, Room 144, Washington Convention Center, p. 119

**7:00 a.m.-8:00 a.m. NCI/NIH-Sponsored Session**

**NIH Grants: Changes in Review and Funding Opportunities**, Suresh Mohla, Moderator, Room 140, Washington Convention Center, p. 120

**8:15 a.m.-9:45 a.m. Opening Ceremony/Award Presentations**

**Opening Ceremony**, Exhibit Hall D, Washington Convention Center, p. 122

**Seventh Annual AACR Award for Lifetime Achievement in Cancer Research**, Exhibit Hall D, Washington Convention Center, p. 123

**Fourth Annual AACR Team Science Award**, Exhibit Hall D, Washington Convention Center, p. 125

**2010 AACR Awards for Distinguished Public Service**, Exhibit Hall D, Washington Convention Center, p. 126

**AACR Tributes to Nobel Laureates, Elizabeth H. Blackburn and Carol W. Greider**, Exhibit Hall D, Washington Convention Center, p. 128

**AACR Tribute to Bayard D. Clarkson**, Exhibit Hall D, Washington Convention Center, p. 130

**Fourth Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research**, Exhibit Hall D, Washington Convention Center, p. 131



**9:45 a.m.-12:30 p.m. Opening Plenary Session**

**Innovations in Translational Cancer Medicine**, Frank McCormick, Chairperson, Exhibit Hall D, Washington Convention Center, p. 132

## Sunday, April 18

### 12:30 p.m.-2:00 p.m. NCI/NIH-Sponsored Session

**NCI Funding and Training Opportunities in Cancer Research**, Jonathan S. Wiest, Chairperson, Room 140, Washington Convention Center, p. 134

### 1:00 p.m.-3:00 p.m. New Concepts in Organ Site Research Sessions

**Bridging the Gap: Moving Laboratory Discoveries into Clinical Trials**, Michael A. Dyer, Chairperson, Room 151, Washington Convention Center, p. 135

**From Prostate Cancer Susceptibility Gene Identification to Personalized Medicine**, Johann S. de Bono and Arul M. Chinnaiyan, Co-Chairpersons, Room 143, Washington Convention Center, p. 135

**Personalized Therapy of Advanced Non-small Cell Lung Cancer**, Roy S. Herbst and Thomas J. Lynch, Co-Chairpersons, Room 150, Washington Convention Center, p. 136

**Progress in Pancreatic Cancer, 2010**, David A. Tuveson, Chairperson, Room 152, Washington Convention Center, p. 136

### 1:00 p.m.-3:00 p.m. Major Symposia

**Identifying Proteomic Markers of Prognosis and Therapeutic Outcome**, Daniel C. Liebler and John D. Haley, Co-Chairpersons, Room 207, Washington Convention Center, p. 137

**Invasion and Metastasis**, Sara A. Courtneidge, Chairperson, Ballroom C, Washington Convention Center, p. 137

**Manipulating Tumor Immunity**, Carl H. June, Chairperson, Room 202, Washington Convention Center, p. 138

**Molecular Approaches for Cancer Prevention: Markers, Models, and Mechanisms**, Cory Abate-Shen, Chairperson, Room 145, Washington Convention Center, p. 138

**Noncoding RNAs**, Carlo M. Croce, Chairperson, Room 146, Washington Convention Center, p. 139

### 1:00 p.m.-3:30 p.m. Minisymposia

**CB 1 Gene Regulation and Cancer**, Room 204, Washington Convention Center, p. 140

**CL 1 Molecular Biology in the Clinic**, Room 201, Washington Convention Center, p. 140

**ET 1 Experimental Therapeutics: Novel Agents and Novel Mechanisms**, Room 103, Washington Convention Center, p. 141

**TB 1 Identification and Targeting of Cancer Stem Cells**, Room 144, Washington Convention Center, p. 141

### 1:00 p.m.-3:30 p.m. Special Symposium

**Future Leaders in Translational Research**, Room 102, Washington Convention Center, p. 142

### 2:00 p.m.-3:30 p.m. NCI/NIH-Sponsored Session

**The Cancer Genome Atlas – Phase II: Strategy for the Comprehensive, Systematic Mapping of 20 Cancers**, Anna D. Barker, Chairperson, Room 140, Washington Convention Center, p. 143

### 2:00 p.m.-4:00 p.m. MICR Council Meet and Greet

**Minorities in Cancer Research Council Meet and Greet**, AACR Central, Exhibit Hall AB, Washington Convention Center, p. 144



**2:00 p.m.-5:00 p.m. Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

- CB 2 Cancer Cell Metabolism 1**, Poster Section 1, p. 145
- CB 3 Cancer Cell Metabolism 2**, Poster Section 2, p. 146
- CB 4 Cancer Genomics and Bioinformatics 1**, Poster Section 3, p. 147
- CB 5 Cell Survival Pathways and IAPs**, Poster Section 4, p. 148
- CB 6 DNA Methylation 1**, Poster Section 5, p. 149
- CB 7 DNA Methylation 2**, Poster Section 6, p. 150
- CB 8 Enhancement of Apoptosis by Chemotherapeutic Agents**, Poster Section 7, p. 151
- CB 9 Functional Identification of New Cancer Genes**, Poster Section 8, p. 152
- CB 10 Growth Factor Signaling 1**, Poster Section 9, p. 153
- CB 11 Intracellular Signaling 1**, Poster Section 10, p. 154
- CB 12 Oncogenomics 1: Molecular Cytogenetics**, Poster Section 11, p. 155
- CB 13 Therapeutics 1**, Poster Section 12, p. 156
- TB 2 Angiogenic Inhibitors: Resistance and Biomarkers**, Poster Section 13, p. 157
- TB 3 Animal Models of Hematopoietic Malignancy**, Poster Section 14, p. 158
- TB 4 Biomarkers, Determinants of Invasiveness, and Therapeutics That Target Invasion**, Poster Section 15, p. 159
- TB 5 Hypoxia**, Poster Section 16, p. 160
- TB 6 Model Systems in the Study of Metastasis**, Poster Section 17, p. 161
- TB 7 Modulators of Radiation and Photobiological Responses**, Poster Section 18, p. 162
- TB 8 Proteases, Extracellular Matrix Structure, and *In vitro* Models**, Poster Section 19, p. 163
- TB 9 Stroma 1**, Poster Section 20, p. 164
- ET 2 Biochemical Modulators**, Poster Section 21, p. 165

- ET 3 Gene and Vector-Based Therapy 1**, Poster Section 22, p. 166
- ET 4 Mechanisms of Resistance 1: Targeted Therapeutics**, Poster Section 23, p. 167
- ET 5 New Molecular Targets 1: Models, Imaging, and Molecular Classification**, Poster Section 24, p. 168
- ET 6 New Molecular Targets 2: Modulation of DNA Repair and Cell Death Pathways**, Poster Section 25, p. 169
- ET 7 Targeting Receptors and Cell Surface Antigens**, Poster Section 26, p. 170
- CH 1 Drug Design and Target Validation**, Poster Section 27, p. 171
- CH 2 Lead Discovery and Optimization**, Poster Section 28, p. 172
- CL 2 Molecular Classification of Tumors**, Poster Section 30, p. 173
- CL 3 Molecular Diagnostics and Therapeutic Targets 1**, Poster Section 31, p. 174
- CL 4 Tumor Staging and Minimal Residual Disease**, Poster Section 32, p. 175
- EP 1 Clinical Epidemiology and Cancer Prevention**, Poster Section 33, p. 176
- EP 2 Epidemiology of Cancer Survival, Toxicity, and Survivorship**, Poster Section 34, p. 177
- EP 3 Polymorphisms in Genes Related to Carcinogen Metabolism, Dietary Exposure, Inflammation, and Immune Response**, Poster Section 35, p. 178
- PR 1 Animal Models of Prevention 1**, Poster Section 36, p. 179
- PR 2 Behavior, Disparities, and Economics**, Poster Section 37, p. 180

**Category Codes for Poster Sessions and Minisymposia**

CB = Cellular and Molecular Biology; CG = Carcinogenesis; CH = Cancer Chemistry; CL = Clinical Research; EN = Endocrinology; EP = Epidemiology; ET = Experimental and Molecular Therapeutics; IM = Immunology; PR = Prevention Research; TB = Tumor Biology

## Sunday, April 18

### 2:00 p.m.-5:00 p.m. Late-Breaking Poster Sessions

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 1**,  
Poster Section 38, p. 144

**Late-Breaking Research: Experimental and Molecular  
Therapeutics 1**, Poster Section 39, p. 144

**Late-Breaking Research: Clinical Research 1**, Poster  
Section 40, p. 144

### 3:15 p.m.-4:45 p.m. AACR-SU2C Special Session

**Stand Up To Cancer: Maximizing Innovation Through  
Translational Research and Team Success**, Phillip A. Sharp,  
Moderator, Room 206, Washington Convention Center, p. 181

### 3:15 p.m.-5:15 p.m. Drug Development Track: Special Session

**New Drugs on the Horizon**, Matthew A. Marx and Lori S.  
Friedman, Co-Chairpersons, Room 207, Washington  
Convention Center, p. 182

### 3:15 p.m.-5:15 p.m. New Concepts in Organ Site Research Session

**Advances in Skin Cancers: New Treatment, New Virus,  
New Mouse Models**, Yuan Chang, Chairperson, Room 150,  
Washington Convention Center, p. 183

**Bladder Cancer: Prediction of Prognosis and Therapeutic  
Response in Patients with High-Risk Disease**, Dan  
Theodorescu, Chairperson, Room 145, Washington Convention  
Center, p. 183

**Medulloblastoma: Genetics and Genomics**, Martine F.  
Roussel and William A. Weiss, Co-Chairpersons, Room 151,  
Washington Convention Center, p. 184

**New Concepts in Lymphoid Malignancies: Molecular  
Determinants of Oncogenesis and Clinical Behavior**,  
Andrew C. Rawstron and Anthony G. Letai, Co-Chairpersons,  
Room 152, Washington Convention Center, p. 184

**Recent Advances in Ovarian Cancer Research**, Shelley S.  
Tworoger and Christopher P. Crum, Co-Chairpersons, Room  
147, Washington Convention Center, p. 185

### 3:15 p.m.-5:15 p.m. Major Symposia

**Differentiation in Cancer and Cell Fate Reprogramming**,  
Carlo C. Maley, Chairperson, Ballroom C, Washington  
Convention Center, p. 186

**Environment and Emerging Exposures**, Johanna W. Lampe,  
Chairperson, Room 202, Washington Convention Center,  
p. 186

**Infection, Inflammation, and Immunity: Crossroads to  
Cancer**, Cornelia M. Ulrich and Eric A. Engels,  
Co-Chairpersons, Room 146, Washington Convention Center,  
p. 187

### 3:30 p.m.-4:30 p.m. NCI/NIH-Sponsored Session

**NCI caHUB: Meeting the Biospecimen Demand for  
Postgenomic Cancer Research**, Carolyn Compton,  
Chairperson, Room 140, Washington Convention Center,  
p. 188

### 4:15 p.m.-5:30 p.m. Lecture

**Fifth Annual AACR–Minorities in Cancer Research Jane  
Cooke Wright Lectureship**, Amelie G. Ramirez, Room 144,  
Washington Convention Center, p. 189



**4:30 p.m.-5:30 p.m. European Commission-Sponsored Session**

**Coordination of Translational Cancer Research in Europe**, Room 140, Washington Convention Center, p. 190

**5:30 p.m.-6:30 p.m. Presidential Address**

**2010 Vision: Challenges and Opportunities for Cancer Research and Cancer Researchers**, Tyler Jacks, Exhibit Hall D, Washington Convention Center, p. 191

**5:30 p.m.-7:30 p.m. CICR Town Meeting**

**Chemistry in Cancer Research Working Group Town Meeting and Reception**, Laurence H. Hurley and Peter C. Dedon, Co-Chairpersons, Lafayette Park, Washington Grand Hyatt Hotel, p. 192

**6:00 p.m.-7:30 p.m. CIMM Town Meeting**

**Cancer Immunology Working Group (CIMM) Town Meeting and Reception**, Louis M. Weiner, Chairperson, Congressional Hall A, Renaissance Washington Hotel, p. 192

**6:30 p.m.-8:30 p.m. Professional Advancement Series Session**

**Landing a Job in Industry: Decoding the Black Box of Application Systems**, Constitution C-E, Washington Grand Hyatt Hotel, p. 193

**9:00 p.m.-12:00 a.m. Annual Reception**

Independence Ballroom, Washington Grand Hyatt Hotel, p. 193

# Monday, April 19

## 7:00 a.m.-8:00 a.m. Meet-the-Expert Sessions

**DCIS: Prediction of Future Disease**, Peggy L. Porter, Room 207, Washington Convention Center, p. 197

**DNA Methylation Changes as Biomarkers for Screening and Early Detection of Cancer**, James G. Herman, Room 151, Washington Convention Center, p. 197

**Genetically Engineered Mouse Models for Preclinical Research**, Cory Abate-Shen, Room 152, Washington Convention Center, p. 197

**Genomic Strategies for Achieving Personalized Cancer Treatment**, Joseph R. Nevins, Room 145, Washington Convention Center, p. 197

**Opportunities and Challenges Using Natural Products in Oncology Drug Discovery: Triptolide and Phenanthroperidines**, Gunda I. Georg, Room 201, Washington Convention Center, p. 198

**Pathway Analysis in Cancer Genomics**, Chris Sander, Room 144, Washington Convention Center, p. 198

**Regulating p53 Expression through Mdm2 and Mdmx**, Carol L. Prives, Room 146, Washington Convention Center, p. 198

**RNAi: New Promise in Cancer Therapy**, Anastasia Khvorova, Room 143, Washington Convention Center, p. 198

**Spending Some Real Time with Caspase-2: A Putative Tumor Suppressor**, Douglas R. Green, Room 202, Washington Convention Center, p. 199

**Stat3: A Central Signaling Node for Tumor Immune Evasion**, Drew M. Pardoll, Room 150, Washington Convention Center, p. 199

**Tumor Microenvironment in Cancer Progression and Metastasis**, Raghu Kalluri, Room 147, Washington Convention Center, p. 199

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## 8:00 a.m.-10:00 a.m. Plenary Session

**The Cancer Genome**, Arul M. Chinnaiyan, Chairperson, Exhibit Hall D, Washington Convention Center, p. 200

## 8:15 a.m.-10:15 a.m. Professional Advancement Series Session

**Women in Cancer Research Career Mentoring Session**, Wen-jen Hwu and Leslie Bernstein, Co-Chairpersons, Constitution A-B, Washington Grand Hyatt Hotel, p. 201

## 9:00 a.m.-12:00 p.m. Poster Sessions

Exhibit Hall A-C, Washington Convention Center

- CB 14 Adhesion, Cytoskeleton, and Motility**, Poster Section 1, p. 203
- CB 15 Bcl-2 Family Proteins and Effectors of Cell Death and Autophagy**, Poster Section 2, p. 204
- CB 16 Cancer Signaling 1**, Poster Section 3, p. 205
- CB 17 Cell Cycle 1**, Poster Section 4, p. 206
- CB 18 Established Tumor Suppressor Genes 1 (including RB1 and p53)**, Poster Section 5, p. 207
- CB 19 Established Tumor Suppressor Genes 2 (including PTEN, LKB, NF2, and WT1)**, Poster Section 6, p. 208
- CB 20 Innovative Technologies 1**, Poster Section 7, p. 209
- CB 21 Molecular Markers**, Poster Section 8, p. 210
- CB 22 Regulators of Apoptosis**, Poster Section 9, p. 211
- CB 23 Signal Transduction and Gene Expression**, Poster Section 10, p. 212

- CB 24** **The Canonical Pathways of Cell Death and Autophagy**, Poster Section 11, p. 213
- TB 10** **Biology of Angiogenesis and the Tumor Microenvironment**, Poster Section 12, p. 214
- TB 11** **DNA Damage Response, Signaling, and Gene Expression**, Poster Section 13, p. 215
- TB 12** **Inflammation and the Immune System**, Poster Section 14, p. 216
- TB 13** **Novel/New Antiangiogenic Therapeutic Approaches**, Poster Section 15, p. 217
- TB 14** **Radiation Protectors and Sensitizers**, Poster Section 16, p. 218
- TB 15** **Stroma 2**, Poster Section 17, p. 219
- TB 16** **Translational Metastasis Research**, Poster Section 18, p. 220
- CG 1** **Molecular Analysis of Carcinogenesis**, Poster Section 20, p. 221
- ET 8** **Gene and Vector-Based Therapy 2**, Poster Section 21, p. 222
- ET 9** **Mechanisms of Resistance 2: Drug Transporters and Agents with Unique Mechanisms of Action**, Poster Section 22, p. 223
- ET 10** **Metastasis and Tumor-Host Interactions**, Poster Section 23, p. 224
- ET 11** **New Molecular Targets 3: Identification of Molecular Targets I**, Poster Section 24, p. 225
- ET 12** **New Molecular Targets 4: Identification of Molecular Targets II**, Poster Section 25, p. 226
- ET 13** **Novel Mechanisms of Drug Action and Signaling Pathways**, Poster Section 26, p. 227
- ET 14** **Pharmacogenomics and Personalized Medicine 1**, Poster Section 27, p. 228
- CH 3** **Mechanisms of Carcinogenesis**, Poster Section 28, p. 229
- EN 1** **Receptor Signaling in Endocrine-Related Cancers**, Poster Section 29, p. 230
- CL 5** **Biomarkers of Metastasis**, Poster Section 30, p. 231
- CL 6** **Molecular Diagnostics and Therapeutic Targets 2**, Poster Section 31, p. 232

- CL 7** **Targeting Signal Transduction Pathways**, Poster Section 32, p. 233
- EP 4** **Cancer Statistics and Risk Factors**, Poster Section 33, p. 234
- EP 5** **Hereditary Cancer and Polymorphisms in DNA Repair**, Poster Section 34, p. 235
- PR 3** **Preclinical Studies in Prevention: Natural Products and Dietary Factors**, Poster Section 35, p. 236
- IM 1** **Immunobiology of the Tumor Microenvironment**, Poster Section 36, p. 237
- IM 2** **T-Cell Adoptive Transfer**, Poster Section 37, p. 238

## 9:00 a.m.-12:00 p.m. **Late-Breaking Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 2**, Poster Section 38, p. 202

**Late-Breaking Research: Carcinogenesis**, Poster Section 39, p. 202

**Late-Breaking Research: Cancer Chemistry**, Poster Section 40, p. 202

## 9:00 a.m.-2:30 p.m. **Professional Advancement Series Session**

**Special Program for High School Students: The Conquest of Cancer and the Next Generation of Cancer Researchers**, Stewart Sell, Chairperson, Room 204, Washington Convention Center, p. 202

## 9:30 a.m.-11:00 a.m. **Professional Advancement Series Session**

**Minorities in Cancer Research Forum**  
**How to Mentor and Be Mentored: Challenges and Opportunities for Minority Scientists**, Timothy R. Rebbeck, Chairperson, Room 102, Washington Convention Center, p. 239

## Monday, April 19

### 10:15 a.m.-11:45 a.m. NCI/NIH-Sponsored Session

**Cancer Biomedical Informatics Grid® (caBIG®) Resources to Support Life Sciences and Translational Research**, Mervi A. Heiskanen, Chairperson, Room 140, Washington Convention Center, p. 240

### 10:30 a.m.-12:30 p.m. New Concepts in Organ Site Research Sessions

**Developing a Rational Approach to Luminal B Breast Cancer**, Monica Morrow, Chairperson, Room 145, Washington Convention Center, p. 241

**Mechanistic Approach to Targeted Therapy for Advanced Kidney Cancer**, Robert J. Motzer, Chairperson, Room 152, Washington Convention Center, p. 241

**Molecularly Targeted Strategies for Melanoma**, Keith T. Flaherty and Marcus W. Bosenberg, Co-Chairpersons, Room 150, Washington Convention Center, p. 242

**Novel Approaches to Small Cell Lung Cancer**, Charles M. Rudin, Chairperson, Room 151, Washington Convention Center, p. 242

### 10:30 a.m.-12:30 p.m. Professional Advancement Series Session

**Physician-Scientist Pathway: Navigating the Murky Waters between Clinical Medicine and Research Discovery**, Salon B, East Hall, Washington Convention Center, p. 243

### 10:30 a.m.-12:30 p.m. Major Symposia

**Aging and Cancer**, Judith Campisi, Chairperson, Room 147, Washington Convention Center, p. 244

**Cancer Nanotechnology: Path to the Clinic**, Chad A. Mirkin and Piotr Grodzinski, Co-Chairpersons, Room 146, Washington Convention Center, p. 244

**Chemical Biology Approaches in Cancer**, Gregory L. Verdine, Chairperson, Room 202, Washington Convention Center, p. 245

### The Bayard D. Clarkson Symposia on Stem Cells and Cancer

**The Role of Tissue Stem Cells in Cancer Initiation**, Hans Clevers, Chairperson, Ballroom C, Washington Convention Center, p. 245

**Tumor Immune Suppression and Escape**, Mark J. Smyth, Chairperson, Room 207, Washington Convention Center, p. 246

### 10:30 a.m.-1:00 p.m. Minisymposia

**CB 25 microRNA-Mediated Regulation of Cancer Biology 1**, Room 144, Washington Convention Center, p. 247

**CG 2 DNA Damage Responses and Repair**, Room 103, Washington Convention Center, p. 247

**ET 15 Determinants of Sensitivity to Small Molecule Therapeutics**, Room 201, Washington Convention Center, p. 248

**TB 17 Animal Models of Human Tumor Biology**, Room 143, Washington Convention Center, p. 248

### 11:15 a.m.-12:15 p.m. NCI Director Session

**Address by the Director of the National Cancer Institute**, John E. Niederhuber, Room 206, Washington Convention Center, p. 249

### 12:00 p.m.-1:30 p.m. NCI/NIH-Sponsored Session

**New NCI SBIR Bridge Funding Program: Catalyzing Small Business and Investor Partnerships to Develop Cancer Innovations**, Michael Weingarten, Chairperson, Room 140, Washington Convention Center, p. 251

### 12:30 p.m.-1:45 p.m. AACR Annual Business Meeting

**AACR Annual Business Meeting of Members**, Room 102, Washington Convention Center, p. 252

#### Category Codes for Poster Sessions and Minisymposia

CB = Cellular and Molecular Biology; CG = Carcinogenesis; CH = Cancer Chemistry; CL = Clinical Research; EN = Endocrinology; EP = Epidemiology; ET = Experimental and Molecular Therapeutics; IM = Immunology; PR = Prevention Research; TB = Tumor Biology

**1:00 p.m.-3:00 p.m. New Concepts in Organ Site Research Session**

**Basic and Translational Advances in Gastric Cancer**, Patrick B. Tan and Toshikazu Ushijima, Co-Chairpersons, Room 151, Washington Convention Center, p. 254

**Malignant Gliomas: Advances and Challenges in Research and Therapy**, Francis Ali-Osman and Mitchel S. Berger, Co-Chairpersons, Room 145, Washington Convention Center, p. 254

**New Insights into the Myelodysplastic Syndromes**, Kevin M. Shannon and Stephen D. Nimer, Co-Chairpersons, Room 152, Washington Convention Center, p. 255

**The Biology of Prostate Cancer**, Philip W. Kantoff, Chairperson, Room 150, Washington Convention Center, p. 255

**1:00 p.m.-3:00 p.m. Major Symposia**

**Anaplastic Lymphoma Kinase**, Pasi A. Jänne, Chairperson, Room 147, Washington Convention Center, p. 256

**Metabolism and Cancer**, Craig B. Thompson, Chairperson, Ballroom C, Washington Convention Center, p. 256

**Systems, Pathways, and Network Approaches to Understanding Signaling, Tumorigenesis, and Response to Therapy**, Jill P. Mesirov, Chairperson, Room 207, Washington Convention Center, p. 257

**The Ruth Sager Memorial Symposia on Cancer Genetics and Epigenetics**

**The Epigenetic Terrain of Cancer: Origins and Biological and Translational Implications**, Stephen B. Baylin and Peter A. Jones, Co-Chairpersons, Room 146, Washington Convention Center, p. 257

**Unconventional Therapeutic Targets**, Lyubomir T. Vassilev, Chairperson, Room 202, Washington Convention Center, p. 258

**1:45 p.m.-3:15 p.m. NCI/NIH-Sponsored Session**

**Image-Guided Drug Delivery in Cancer: Challenges and Opportunities**, Keyvan Farahani, Chairperson, Room 140, Washington Convention Center, p. 259

**2:00 p.m.-3:00 p.m. Special Session**

**A National Clinical Trials System for the 21st Century: Reinvigorating the NCI Cooperative Group Program**, John Mendelsohn, Chairperson, Salon C, East Hall, Washington Convention Center, p. 259

**2:00 p.m.-5:00 p.m. Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

- CB 26 Cancer Genomics and Bioinformatics 2**, Poster Section 1, p. 260
- CB 27 Cancer Systems Biology and Integrative Analysis**, Poster Section 2, p. 261
- CB 28 microRNA-Mediated Regulation of Cancer Biology 2**, Poster Section 3, p. 262
- CB 29 microRNA-Mediated Regulation of Cancer Biology 3**, Poster Section 4, p. 263
- CB 30 microRNAs as Tumor Suppressor Genes and Oncogenes**, Poster Section 5, p. 264
- CB 31 Mutation Detection**, Poster Section 6, p. 265
- CB 32 Oncogenomics 2: Copy Number Alterations**, Poster Section 7, p. 266
- CB 33 Oncogenomics 3: Expression Profiling**, Poster Section 8, p. 267
- CB 34 Oncogenomics 4: Functional Genomics**, Poster Section 9, p. 268
- CB 35 Oncogenomics 5: Sequencing**, Poster Section 10, p. 269
- TB 18 Biomarkers of Metastasis 1**, Poster Section 11, p. 270
- TB 19 Drug Targets, Angiogenesis, and Gene Networks**, Poster Section 12, p. 271
- TB 20 Epithelial-Mesenchymal Transition**, Poster Section 13, p. 272
- TB 21 Matrix: Integrins and Proteases**, Poster Section 14, p. 273
- TB 22 Mechanisms of Tumor Metastasis 1**, Poster Section 15, p. 274
- TB 23 Molecular Mechanisms of Tumor Angiogenesis**, Poster Section 16, p. 275
- IM 3 Cancer Vaccines 1**, Poster Section 17, p. 276
- IM 4 Monoclonal Antibodies 1**, Poster Section 18, p. 277
- CG 3 Animal Models of Carcinogenesis**, Poster Section 19, p. 278

## Monday, April 19

- ET 16** **Anticancer Drugs Targeting Cell Cycle and Proliferation**, Poster Section 21, p. 279
- ET 17** **Intracellular Signal Transduction**, Poster Section 22, p. 280
- ET 18** **Mechanisms of Resistance 3: Chemotherapeutics**, Poster Section 23, p. 281
- ET 19** **Modified Antibodies and Oncolytic Viruses**, Poster Section 24, p. 282
- ET 20** **Pharmacogenomics and Personalized Medicine 2**, Poster Section 25, p. 283
- ET 21** **Regulation of Protein Stability**, Poster Section 26, p. 284
- CH 4** **Drug Delivery and Disposition**, Poster Section 27, p. 285
- CH 5** **Structural Biology and Drug Design**, Poster Section 28, p. 286
- CL 8** **Biomarkers Predictive of Response to Therapy 1**, Poster Section 30, p. 287
- CL 9** **Clinical Research in Special Populations: Minorities and the Elderly**, Poster Section 31, p. 288
- CL 10** **Diagnostic Biomarkers**, Poster Section 32, p. 289
- CL 11** **Pharmacokinetic, Pharmacogenomic, and Clinical Results of Early Phase Trials**, Poster Section 33, p. 290
- EP 6** **Circulating and Tumor Biomarkers in Relation to Cancer Risk**, Poster Section 34, p. 291
- EP 7** **Dietary Risk Factors of Cancer**, Poster Section 35, p. 292
- EP 8** **Polymorphisms in Genes Related to Cell Growth, Differentiation, and Hormone Metabolism**, Poster Section 36, p. 293
- PR 4** **Animal Models of Prevention 2**, Poster Section 37, p. 294
- PR 5** **Early Phase Cancer Prevention Studies**, Poster Section 38, p. 295

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 IM = Immunology; PR = Prevention Research; TB = Tumor Biology

### 2:00 p.m.-5:00 p.m. Late-Breaking Poster Sessions

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 3**, Poster Section 39, p. 259

**Late-Breaking Research: Tumor Biology 1**, Poster Section 40, p. 259

### 2:30 p.m.-4:30 p.m. Special Session

**Clinical Cancer Research as an Engine for Improving Patient Care: But at What Cost? Ethical and Financial Aspects**, Lowell E. Schnipper and Walter Wolf, Co-Chairpersons, Room 206, Washington Convention Center, p. 296

### 2:30 p.m.-5:00 p.m. Minisymposia

- CB 36** **Mechanisms of Cell Death, Survival, and Senescence**, Room 143, Washington Convention Center, p. 297
- EN 2** **Steroid Receptor Targets and Preclinical Therapies in Cancer**, V. C. Jordan, Chairperson, Room 103, Washington Convention Center, p. 297
- IM 5** **Emerging Immunotherapy**, Room 144, Washington Convention Center, p. 298
- PR 6** **New Markers and Models for Cancer Prevention**, Room 201, Washington Convention Center, p. 298

### 3:00 p.m.-3:30 p.m. NIH Director Session

**Address by the Director of the National Institutes of Health**, Francis S. Collins, Ballroom AB, Washington Convention Center, p. 299

### 3:30 p.m.-4:30 p.m. Lectures

**Fourth Annual AACR Princess Takamatsu Memorial Lectureship**, Mary-Claire King, Room 207, Washington Convention Center, p. 300

**Fiftieth Annual AACR G.H.A. Clowes Memorial Award Lecture**, Titia de Lange, Ballroom C, Washington Convention Center, p. 301



**3:30 p.m.-4:45 p.m. Minisymposia: Late-Breaking Research**

**Clinical Trials**, Room 146, Washington Convention Center, p. 302

**Experimental Therapeutics**, Room 145, Washington Convention Center, p. 303

**Risk and Cancer Markers**, Room 151, Washington Convention Center, p. 303

**Signal Transduction**, Room 202, Washington Convention Center, p. 304

**Tumor Biology and Immunology**, Room 147, Washington Convention Center, p. 304

**3:30 p.m.-5:30 p.m. DOD-Sponsored Session**

**DOD CDMRP-Sponsored Session: Department of Defense Funding Opportunities for Cancer Research**, Carolyn J. Best, Chairperson, Room 140, Washington Convention Center, p. 305

**5:00 p.m.-6:00 p.m. Science Policy Session**

**Cancer Policy and Funding: How Do We Avoid Falling Off the Funding Cliff?** Room 206, Washington Convention Center, p. 306

**5:00 p.m.-6:00 p.m. Lecture**

**Thirteenth Annual Pezcoller Foundation-AACR International Award for Cancer Research**, Joseph Schlessinger, Ballroom C, Washington Convention Center, p. 307

**5:00 p.m.-6:30 p.m. Forums**

**Advancing Cancer Biomarkers to Cancer Diagnostics: Increasing the Pace of Progress**, Anna D. Barker, Moderator, Room 202, Washington Convention Center, p. 308

**Animal Models for Preclinical Evaluation of Drugs for Metastatic Disease: Are GEMs the Jewel in the Crown or an Expensive Luxury?**, Suzanne A. Eccles, Moderator, Room 145, Washington Convention Center, p. 308

**Antiangiogenic Therapy-Induced Malignant Progression: Preclinical Anomaly or Clinical Reality?** Robert S. Kerbel, Moderator, Room 147, Washington Convention Center, p. 308

**Antioxidants and Cancer Prevention: Molecular, Epidemiologic, and Public Perspectives**, Eric A. Klein, Moderator, Room 151, Washington Convention Center, p. 309

**Circulating Tumor Cells: Finding Them and Understanding Them**, Daniel A. Haber, Moderator, Room 146, Washington Convention Center, p. 309

**5:00 p.m.-6:30 p.m. MICR Town Meeting**

**Minorities in Cancer Research Town Meeting**, Eddie Reed, Chairperson, Congressional Hall A, Renaissance Washington Hotel, p. 310

**5:15 p.m.-6:45 p.m. Special Session**

**Cancer Immunology Working Group (CIMM) Evening Scientific Session**

**All Cancer Therapies Are Immunotherapy: The Impact of Clinically Approved Treatment Modalities on Host Antitumor Immunity**, Hyam I. Levitsky, Chairperson, Room 144, Washington Convention Center, p. 311

**5:30 p.m.-7:30 p.m. Professional Advancement Series Session**

**Career Paths in Cancer Drug Development, presented by the Young Chemists Committee of the Chemistry in Cancer Research Working Group**, Stephen A. Munk, Moderator, Erin G. Prestwich and Danzhou Yang, Co-Chairpersons, Bridge Rooms, Washington Grand Hyatt Hotel, p. 312

**6:30 p.m.-8:15 p.m. TME Town Meeting**

**Tumor Microenvironment Working Group Town Meeting and Reception**, Bruce R. Zetter, Chairperson, Constitution C-E, Washington Grand Hyatt Hotel, p. 313

**6:30 p.m.-8:30 p.m. Professional Advancement Series Session**

**Professional Advancement Reception and Roundtable: Navigating the Road to a Successful Career in Cancer Research**, Jennifer J. Hu, Chairperson, Ballroom A-B, Renaissance Washington Hotel, p. 314

## Tuesday, April 20

### 7:00 a.m.-8:00 a.m. Meet-the-Expert Sessions

**Bidirectional Translational Research Approach to Accelerate Development of Effective Cancer Immunotherapeutics**, Thomas F. Gajewski, Room 143, Washington Convention Center, p. 317

**Differentiation and Functions of Mononuclear Phagocytes**, Frederic Geissmann, Room 144, Washington Convention Center, p. 317

**Endogenous DNA Damage: Biomarker Facts and Fallacies**, Peter C. Dedon, Room 151, Washington Convention Center, p. 318

**Genetic Predisposition to Breast Cancer and Their Clinical Applications**, Nazneen Rahman, Room 145, Washington Convention Center, p. 318

**Mass Spectrometry Approaches for Discovery and Verification of Cancer Biomarkers**, Susan J. Fisher, Room 147, Washington Convention Center, p. 318

**Next-Generation Preventive HPV Vaccines**, Richard B. Roden, Room 152, Washington Convention Center, p. 319

**Oncogene Addiction and Therapeutic Opportunities in Human Cancer**, Jeffrey Settleman, Room 207, Washington Convention Center, p. 319

**Pharmacogenetics of Tamoxifen Therapy**, Vered Stearns, Room 150, Washington Convention Center, p. 319

**Systems Biology Approach to Personalized Medicine**, Gordon B. Mills, Room 146, Washington Convention Center, p. 320

**The ATM-p53 Pathway: From Molecular Mechanisms To Clinical Interventions**, Michael B. Kastan, Room 202, Washington Convention Center, p. 320

**TNF $\alpha$  and Cancer**, Frances R. Balkwill, Room 103, Washington Convention Center, p. 320



### 8:15 a.m.-10:15 a.m. Plenary Session

**The Complexity of Cancer**, Joan S. Brugge, Chairperson, Exhibit Hall D, Washington Convention Center, p. 321

### 9:00 a.m.-12:00 p.m. Poster Sessions

Exhibit Hall A-C, Washington Convention Center

- CB 37 Gene Expression in Cancer**, Poster Section 1, p. 322
- CB 38 Genome Instability and DNA Damage Responses**, Poster Section 2, p. 323
- CB 39 microRNA Profiling in Cancer 1**, Poster Section 3, p. 324
- CB 40 microRNA Profiling in Cancer 2**, Poster Section 4, p. 325
- CB 41 Novel Tumor Suppressor Genes 1**, Poster Section 5, p. 326
- CB 42 Nuclear Oncogenes**, Poster Section 6, p. 327
- CB 43 Oncogenes: Membrane and Cytoplasm 1**, Poster Section 7, p. 328
- CB 44 Posttranscriptional Gene Regulation**, Poster Section 8, p. 329
- CB 45 Signaling in Tumors 1**, Poster Section 9, p. 330
- CB 46 Telomeres and the Mechanisms of Senescence and Aging**, Poster Section 10, p. 331
- TB 24 Animal Models of Airway and Urogenital Tumors**, Poster Section 12, p. 332
- TB 25 Animal Models of Breast and Ovarian Cancer**, Poster Section 13, p. 333
- TB 26 Biomarkers of Metastasis 2**, Poster Section 14, p. 334
- TB 27 Cancer Stem Cell Therapeutics 1**, Poster Section 15, p. 335

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- TB 28 Cancer Stem Cells: Models and Markers 1**, Poster Section 16, p. 336
- TB 29 Mechanisms of Tumor Metastasis 2**, Poster Section 17, p. 337
- TB 30 Pediatric Solid Tumors**, Poster Section 18, p. 338
- TB 31 Tumor-Host Cellular Interactions in Growth, Metastasis, and Resistance to Therapy**, Poster Section 19, p. 339
- CG 4 Chemical and Environmental Stress-Induced Carcinogenesis 1**, Poster Section 20, p. 340
- ET 22 Combinatorial Approaches to Therapy**, Poster Section 21, p. 341
- ET 23 DNA Damage and Response**, Poster Section 22, p. 342
- ET 24 Mechanisms of Resistance 4: Drug Transporters and Chemotherapeutics**, Poster Section 23, p. 343
- ET 25 Novel Inhibitors and Mechanisms**, Poster Section 24, p. 344
- ET 26 Pharmacogenomics and Personalized Medicine 3**, Poster Section 25, p. 345
- ET 27 Receptor Tyrosine Kinase Inhibitors**, Poster Section 26, p. 346
- ET 28 Targeting DNA and Chromatin**, Poster Section 27, p. 347
- EN 3 Clinical Endocrinology**, Poster Section 29, p. 348
- CH 6 Chemical Biology**, Poster Section 30, p. 349
- CH 7 Drug Discovery Technologies**, Poster Section 31, p. 350
- CL 12 Adult Phase II-III Clinical Trials/Supportive Care/Ethics**, Poster Section 32, p. 351
- CL 13 Biomarkers Predictive of Response to Therapy 2**, Poster Section 33, p. 352
- EP 9 Methods and Models Related to Measuring and Using Biomarkers**, Poster Section 34, p. 353
- EP 10 Occupational Risk Factors and Cancer Risk**, Poster Section 35, p. 354
- PR 7 Mechanistic Insights into Cancer Prevention 1**, Poster Section 36, p. 355
- IM 6 Innate Immunity to Tumors**, Poster Section 37, p. 356
- IM 7 Modifiers of the Tumor Microenvironment and Cytokines**, Poster Section 38, p. 357

**9:00 a.m.-12:00 p.m. Late-Breaking Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Endocrinology**, Poster Section 39, p. 358

**Late-Breaking Research: Clinical Research 2**, Poster Section 40, p. 358

**10:15 a.m.-11:45 a.m. NCI/NIH-Sponsored Session**

**National Cancer Institute Early Detection Research Network: Advancing Cancer Biomarker Research**, Sudhir Srivastava, Chairperson, Room 140, Washington Convention Center, p. 358

**10:30 a.m.-12:00 p.m. Science Policy Session**

**Health Care Reform: The Confluence of Comparative Effectiveness, Health IT, and Personalized Medicine**, William S. Dalton, Moderator, Room 206, Washington Convention Center, p. 359

**10:30 a.m.-12:30 p.m. New Concepts in Organ Site Research Session**

**Melanoma: Genetics of Predisposition, Initiation, and Progression**, Boris C. Bastian, Chairperson, Room 151, Washington Convention Center, p. 360

**New Concepts in Colon Cancer Research**, Sanford D. Markowitz and Lee M. Ellis, Co-Chairpersons, Room 145, Washington Convention Center, p. 360

**Sarcoma Genomics: Translating New Discoveries into Therapeutic Targets**, Samuel Singer, Chairperson, Room 152, Washington Convention Center, p. 361

**Translational Initiatives in Mesothelioma**, Harvey I. Pass, Chairperson, Room 150, Washington Convention Center, p. 361

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## Tuesday, April 20

### 10:30 a.m.-12:30 p.m. Major Symposia

**Applications of Systems Biology Approaches to Cancer**, Andrea Califano, Chairperson, Ballroom C, Washington Convention Center, p. 362

**Imaging**, Sanjiv Sam Gambhir, Chairperson, Room 147, Washington Convention Center, p. 363

**Innovative Clinical Trials with Molecular Targeted Agents**, Donald A. Berry, Chairperson, Room 146, Washington Convention Center, p. 363

**MICR Scientific Symposium: The Path Towards Personalized Oncology: Connecting the Dots**, John D. Carpten, Chairperson, Room 102, Washington Convention Center, p. 364

**New Molecular Targets**, Patricia M. LoRusso, Chairperson, Room 202, Washington Convention Center, p. 364

**The Ras Pathway in Cancer**, Dafna Bar-Sagi, Chairperson, Room 207, Washington Convention Center, p. 365

### 10:30 a.m.-1:00 p.m. Minisymposia

**CB 47 Cancer Signaling 2**, Room 143, Washington Convention Center, p. 366

**ET 29 Novel Combination Therapies**, Room 204, Washington Convention Center, p. 366

**EP 11 Inherited Variation and Cancer Susceptibility**, Room 103, Washington Convention Center, p. 367

**TB 32 The Tumor Microenvironment and Therapeutic Strategies**, Room 144, Washington Convention Center, p. 367

### 11:45 a.m.-1:15 p.m. NCI/NIH-Sponsored Session

**National Cancer Institute Symposium on Glycomics for Detection of Cancer and Cancer Risk**, Sudhir Srivastava, Chairperson, Room 140, Washington Convention Center, p. 368

### 1:00 p.m.-1:30 p.m. Lecture

**Seventh Annual AACR Gertrude B. Elion Cancer Research Award Lecture**, Hang Yin, Room 143, Washington Convention Center, p. 369

### 1:00 p.m.-3:00 p.m. New Concepts in Organ Site Research Session

**Head and Neck Cancer: New Trends in Genetics, Biology, and Treatment**, Jennifer R. Grandis, Chairperson, Room 201, Washington Convention Center, p. 370

**Lung Cancer: Risk, Genetics, and Addiction**, Caryn Lerman and Christopher I. Amos, Co-Chairpersons, Room 151, Washington Convention Center, p. 370

**New Concepts in Bone Metastasis**, Yves A. DeClerck and Robin L. Anderson, Co-Chairpersons, Room 150, Washington Convention Center, p. 371

**Regulation of Normal and Transformed Breast Cancer Stem Cell Behavior**, Max S. Wicha and Connie J. Eaves, Co-Chairpersons, Room 152, Washington Convention Center, p. 371

### 1:00 p.m.-3:00 p.m. Professional Advancement Series Session

**Applying to Academic Positions: Mastering the Application Process and Getting the Interview**, Room 102, Washington Convention Center, p. 372

### 1:00 p.m.-3:00 p.m. Major Symposia

**Combinatorial Approaches**, Jeffrey A. Engelman, Chairperson, Room 146, Washington Convention Center, p. 373

**Energy Balance and Cancer Prevention: A Transdisciplinary Approach**, Stephen D. Hursting, Chairperson, Room 145, Washington Convention Center, p. 373

**Mechanisms of Tumor Angiogenesis and Therapeutic Resistance**, Douglas Hanahan, Chairperson, Room 202, Washington Convention Center, p. 374

**Radiation Biology**, Daphne A. Haas-Kogan, Chairperson, Room 147, Washington Convention Center, p. 375

**The p53 Pathway: From Start to Finish**, Charles J. Sherr, Chairperson, Room 207, Washington Convention Center, p. 375

**Understanding the Cancer Genome with Next-Generation DNA Sequencing**, Michael R. Stratton, Chairperson, Ballroom C, Washington Convention Center, p. 376

**1:30 p.m.-3:30 p.m. NCI/NIH-Sponsored Session**

**Technology Transfer: Financial and Career Opportunities for Researchers**, Phuong Kim Pham and Eric Hale, Co-Chairpersons, Room 140, Washington Convention Center, p. 377

**2:00 p.m.-5:00 p.m. Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

- CB 48 Cell Cycle 2**, Poster Section 1, p. 378
- CB 49 Developmental Gene Expression Pathways**, Poster Section 2, p. 379
- CB 50 DNA Damage and Repair**, Poster Section 3, p. 380
- CB 51 Growth Factor Signaling 2**, Poster Section 4, p. 381
- CB 52 Innovative Technologies 2**, Poster Section 5, p. 382
- CB 53 Intracellular Signaling 2**, Poster Section 6, p. 383
- CB 54 microRNA Therapeutics and Diagnostics**, Poster Section 7, p. 384
- CB 55 Modulating Gene Expression**, Poster Section 8, p. 385
- CB 56 Noncoding RNAs and Epigenetic Control of microRNAs**, Poster Section 9, p. 386
- CB 57 Signaling in Tumors 2**, Poster Section 10, p. 387
- CB 58 Therapeutics 2**, Poster Section 11, p. 388
- TB 33 Animal Models of Gastrointestinal Tract Tumors**, Poster Section 12, p. 389
- TB 34 Animal Models of Solid Tumors**, Poster Section 13, p. 390
- TB 35 Cancer Stem Cell Biology 1**, Poster Section 14, p. 391
- TB 36 Cancer Stem Cell Biology 2**, Poster Section 15, p. 392
- TB 37 Cancer Stem Cell Therapeutics 2**, Poster Section 16, p. 393
- TB 38 Cancer Stem Cells: Models and Markers 2**, Poster Section 17, p. 394

- TB 39 New Methods to Image Tumors *In vivo***, Poster Section 18, p. 395
- TB 40 Pediatric Brain Tumors and Leukemia**, Poster Section 19, p. 396
- CG 5 Chemical and Environmental Stress-Induced Carcinogenesis 2**, Poster Section 20, p. 397
- ET 30 Antibody Technologies**, Poster Section 21, p. 398
- ET 31 Mitotic Kinases and Tubulin-Binding Agents**, Poster Section 22, p. 399
- ET 32 Novel Mechanisms of Drug Action**, Poster Section 23, p. 400
- ET 33 PI3K/mTOR Pathway Inhibitors**, Poster Section 24, p. 401
- ET 34 Targeting Cell Signaling**, Poster Section 25, p. 402
- ET 35 Tumor Metabolism and Regulation of Apoptosis**, Poster Section 26, p. 403
- CH 8 Cellular and Molecular Imaging**, Poster Section 27, p. 404
- CH 9 Protein Biomarkers**, Poster Section 28, p. 405
- EN 4 Regulation of Estrogen Receptor-Positive and -Negative Breast Cancer**, Poster Section 29, p. 406
- CL 14 Biomarkers for Early Detection of Cancer**, Poster Section 30, p. 407
- CL 15 Biomarkers of Cancer Progression**, Poster Section 31, p. 408
- CL 16 Correlative and Basic Science in Cancer**, Poster Section 32, p. 409
- EP 12 Exposure and Tumor Biomarkers in Cancer Risk and Survival**, Poster Section 33, p. 410
- EP 13 Genome-wide Association Studies and Translational Genomics**, Poster Section 34, p. 411
- IM 8 Cancer Vaccines 2**, Poster Section 35, p. 412
- IM 9 Tumor Antigens and Adaptive Immunity**, Poster Section 36, p. 413

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## Tuesday, April 20

### 2:00 p.m.-5:00 p.m. Late-Breaking Poster Sessions

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 4**, Poster Section 37, p. 377

**Late-Breaking Research: Tumor Biology 2**, Poster Section 38, p. 377

**Late-Breaking Research: Experimental and Molecular Therapeutics 2**, Poster Section 39, p. 377

**Late-Breaking Research: Immunology**, Poster Section 40, p. 377

### 2:30 p.m.-5:00 p.m. Minisymposia

**CB 59 Epigenetic Regulation in Cancer**, Room 144, Washington Convention Center, p. 414

**CL 17 Taking Biomarkers into Clinical Practice**, Room 204, Washington Convention Center, p. 414

**EP 14 Risk and Prognostic Factors of Cancer**, Room 103, Washington Convention Center, p. 415

**TB 41 Signaling in Tumor Cell Migration and Invasion 1**, Room 143, Washington Convention Center, p. 415

### 3:00 p.m.-4:00 p.m. Lectures

**Thirtieth Annual AACR Award for Outstanding Achievement in Cancer Research**, Joshua T. Mendell, Ballroom C, Washington Convention Center, p. 416

**Fourth Annual AACR Award for Outstanding Achievement in Chemistry in Cancer Research**, Stuart Schreiber, Room 202, Washington Convention Center, p. 417

**Nineteenth Annual AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention**, Michael J. Thun, Room 146, Washington Convention Center, p. 418

### 3:30 p.m.-5:30 p.m. NCI/NIH-Sponsored Session

**NIH Grant Process and Opportunities for Cancer Research Funding at NIH**, Phuong Kim Pham and Patricia Winkler Carolan, Co-Chairpersons, Room 140, Washington Convention Center, p. 419

### 4:00 p.m.-5:00 p.m. Lecture

**Fifteenth Annual AACR Joseph H. Burchenal Memorial Award for Clinical Research**, Henry T. Lynch, Ballroom C, Washington Convention Center, p. 420

### 4:00 p.m.-5:30 p.m. Science Policy Session

**Integrating Science and Policy to Combat the Global Tobacco Epidemic**, Roy S. Herbst and Ellen R. Gritz, Moderators, Room 201, Washington Convention Center, p. 421

### 5:00 p.m.-6:30 p.m. Forums

**Anti-TGF $\beta$  Signaling Therapy: Balancing the Pros and Cons**, Rosemary J. Akhurst, Moderator, Room 152, Washington Convention Center, p. 422

**Cancer Stem Cells: Somewhere, Everywhere, or Nowhere?** Emmanuelle Passegué, Moderator, Room 146, Washington Convention Center, p. 422

**Cellular Senescence: Molecular Basis and Relevance for Cancer**, Jiri Bartek, Moderator, Room 202, Washington Convention Center, p. 422

**Integrating Immunology with Cancer Biology and Medicine**, Glenn Dranoff, Moderator, Room 145, Washington Convention Center, p. 422

**Oncology Drug Discovery in Academia: Key Strategies and Challenges**, Michael Morrissey, Moderator, Room 151, Washington Convention Center, p. 424

**The Role of Vitamin D in Cancer Prevention: What Do We Really Know?** Virginia W. Hartmuller, Moderator, Room 150, Washington Convention Center, p. 424

### 5:00 p.m.-6:30 p.m. Special Session

**Joint AACR/ASCO Forum: Drug Development in the 21st Century**, Tyler Jacks and Douglas W. Blayney, Co-Chairpersons, Room 143, Washington Convention Center, p. 423

### 6:00 p.m.-7:30 p.m. MEG Town Meeting

**Molecular Epidemiology Working Group Town Meeting and Reception**, Cornelia M. Ulrich, Chairperson, Constitution C-E, Washington Grand Hyatt Hotel, p. 426

### 6:00 p.m.-7:45 p.m. Professional Advancement Series Session

**Getting Your Research Published: Insider Views**, Michael A. Caligiuri, Chairperson, Salon C, East Hall, Washington Convention Center, p. 425



## 7:00 a.m.-8:00 a.m. Meet-the-Expert Sessions

**Cell Adhesion and Signaling Pathways Regulating Brain Tumor Angiogenesis**, Joseph H. McCarty, Room 206, Washington Convention Center, p. 429

**Germline Genetic Variation and the Clinical Course of Disease After a Diagnosis of Cancer**, Paul D. P. Pharoah, Room 150, Washington Convention Center, p. 429

**Long-term Outcomes in Adult Survivors of Childhood Cancer: A Model for Cancer Survivorship Research**, Leslie L. Robison, Room 102, Washington Convention Center, p. 429

**New Advances in T Cell Acute Lymphoblastic Leukemia**, A. Thomas Look, Room 143, Washington Convention Center, p. 429

**Role of Postpartum Involution in the Promotion of Pregnancy-Associated Breast Cancer**, Pepper Jo Schedin, Room 103, Washington Convention Center, p. 430

**Th17 Cells in Cancer: Friends or Foes?**, Weiping Zou, Room 201, Washington Convention Center, p. 430

**The Nuts and Bolts of p53 Action**, Laura D. Attardi, Room 144, Washington Convention Center, p. 430



## 8:00 a.m.-10:30 a.m. Plenary Session

**Metastasis and the Tumor Microenvironment: Mechanistic Insights and Therapeutic Opportunities**, Danny R. Welch, Chairperson, Ballroom A-B, Washington Convention Center, p. 431

### Category Codes for Poster Sessions and Minisymposia

CB = Cellular and Molecular Biology; CG = Carcinogenesis;  
CH = Cancer Chemistry; CL = Clinical Research; EN = Endocrinology;  
EP = Epidemiology; ET = Experimental and Molecular Therapeutics;  
IM = Immunology; PR = Prevention Research; TB = Tumor Biology

## 8:00 a.m.-11:00 a.m. Poster Sessions

Exhibit Hall A-C, Washington Convention Center

- CB 60 Autophagy**, Poster Section 1, p. 432
- CB 61 Chromatin Modifications**, Poster Section 2, p. 433
- CB 62 DNA Methylation 3**, Poster Section 3, p. 434
- CB 63 DNA Methylation 4**, Poster Section 4, p. 435
- CB 64 Innovative Technologies 3**, Poster Section 5, p. 436
- CB 65 Mechanisms of Gene Expression**, Poster Section 6, p. 437
- CB 66 Novel Tumor Suppressor Genes 2**, Poster Section 7, p. 438
- CB 67 Oncogenes and Tumor Suppressor Genes 1: New Therapeutic Targets and Strategies**, Poster Section 8, p. 439
- CB 68 Oncogenes: Membrane and Cytoplasm 2**, Poster Section 9, p. 440
- CB 69 Signaling Pathways That Regulate Metabolism**, Poster Section 10, p. 441
- TB 42 Adhesion and Cytoskeletal Signaling in Invasion**, Poster Section 11, p. 442
- TB 43 Cancer Stem Cell Biology 3**, Poster Section 12, p. 443
- TB 44 Cell-Cell Adhesion and Invasiveness**, Poster Section 13, p. 444
- TB 45 Growth Factor, Hormone, and Cytokine Signaling in Invasion**, Poster Section 14, p. 445
- TB 46 Imaging Tumor Responses to Therapy *In vivo***, Poster Section 15, p. 446
- TB 47 Neuroblastoma and Pediatric Cancer: Preclinical Studies**, Poster Section 16, p. 447
- TB 48 Signaling in Tumor Cell Migration and Invasion 2**, Poster Section 17, p. 448
- IM 10 Immune Regulation of Antitumor Immunity**, Poster Section 18, p. 449
- IM 11 Monoclonal Antibodies 2**, Poster Section 19, p. 450
- CG 6 Viral Carcinogenesis and Hormonal Carcinogenesis**, Poster Section 20, p. 451

## Wednesday, April 21

- ET 36** **Combination Chemotherapy**, Poster Section 21, p. 452
- ET 37** **Combination of Targeted Agents**, Poster Section 22, p. 453
- ET 38** **Epigenetic Modulators**, Poster Section 23, p. 454
- ET 39** **New Targets**, Poster Section 24, p. 455
- ET 40** **Novel Drug Delivery and Assay Technologies**, Poster Section 25, p. 456
- ET 41** **Novel Drug Delivery Systems**, Poster Section 26, p. 457
- ET 42** **Preclinical Radiotherapeutics**, Poster Section 27, p. 458
- CH 10** **Proteomics, Metabolomics, and Profiling**, Poster Section 28, p. 459
- CL 18** **Immune Monitoring/Clinical Correlates, and Combination Therapies**, Poster Section 30, p. 460
- CL 19** **Immunomodulatory Agents and Interventions**, Poster Section 31, p. 461
- CL 20** **Radiation Oncology, Biomarkers, and Outcomes**, Poster Section 32, p. 462
- PR 8** **Mechanistic Insights into Cancer Prevention 2**, Poster Section 33, p. 463
- PR 9** **Mechanistic Insights into Cancer Prevention 3**, Poster Section 34, p. 464
- PR 10** **Preclinical Studies in Prevention Research: New Biomarkers, Agents, and Mechanisms**, Poster Section 35, p. 465
- EP 15** **Inflammatory and Hormonal Factors in Relation to Cancer**, Poster Section 36, p. 466

### 8:00 a.m.-11:00 a.m. **Late-Breaking Poster Sessions**

Exhibit Hall A-C, Washington Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 5**, Poster Section 37, p. 467

**Late-Breaking Research: Tumor Biology 3**, Poster Section 38, p. 467

**Late-Breaking Research: Epidemiology**, Poster Section 39, p. 467

**Late-Breaking Research: Prevention**, Poster Section 40, p. 467

### 9:30 a.m.-12:00 p.m. **Minisymposia**

**CB 70** **Oncogenes and Tumor Suppressor Genes 2**, Room 204, Washington Convention Center, p. 468

**CH 11** **New Preclinical and Clinical Candidates**, Room 102, Washington Convention Center, p. 468

**ET 43** **New Molecular Targets 5**, Room 201, Washington Convention Center, p. 469

**TB 49** **Molecular Regulation of Tumor Metastasis**, Room 206, Washington Convention Center, p. 469

### 10:30 a.m.-11:30 a.m. **Lecture**

**Thirty-fourth Annual AACR Richard and Hinda Rosenthal Memorial Award**, Pasi A. Jänne, Ballroom C, Washington Convention Center, p. 470

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**11:00 a.m.-1:00 p.m.    NCI/NIH-Sponsored Session**

**Parlaying the K Award into Your First R01: How Did They Do It?**, Sonia B. Jakowlew and Nancy C. Lohrey, Co-Chairpersons, Room 140, Washington Convention Center, p. 471

**11:30 a.m.-1:30 p.m.    Major Symposia**

**Building Upon Genome-Wide Association Studies**, Montserrat Garcia-Closas and Gloria M. Petersen, Co-Chairpersons, Room 147, Washington Convention Center, p. 472

**Forty Years of Somatic Cell Genetics and Tumor Suppressor Genes: From Cells to Genes to Whole Genome Sequencing**, Channing J. Der and Bernard E. Weissman, Co-Chairpersons, Room 143, Washington Convention Center, p. 473

**Role of Telomeres and Telomerase in Chromosomal Stability and Disease**, Maria Blasco, Chairperson, Room 202, Washington Convention Center, p. 473

**The Chemistry and Biology of Hypoxia: Biological Mechanisms, Imaging, and Drug Development**, Kent S. Gates, Chairperson, Room 145, Washington Convention Center, p. 474

**The Stanley J. Korsmeyer Memorial Symposium Apoptosis and Autophagy: Cell Death and Survival Signaling in Cancer**, Eileen P. White, Chairperson, Room 146, Washington Convention Center, p. 474

**Translational Control of Cancer via the mTOR/eIF4E Pathway and Ribosome Biogenesis**, Nahum Sonenberg, Chairperson, Room 207, Washington Convention Center, p. 475

