

Saturday, April 18

### 8:00 AM-10:00 AM Basic Science-Clinical Interface Sessions: Pathways to Progress

**Emerging Targets in the Wnt Pathway**, Kathleen H. Goss, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 67

**Histone Deacetylases as Targets of Cancer Therapy**, Edward Seto, Chairperson, Korbel 2-3, Colorado Convention Center, p. 67

**HSP90 Inhibition for HER2 Positive Breast Cancer and Other Malignancies**, Clifford A. Hudis, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 68

**SMARCB1 and the Evolving Spectrum of Associated Tumors**, Gail E. Tomlinson, Chairperson, Room 301-303, Colorado Convention Center, p. 68

### 8:00 AM-10:00 AM Educational Sessions

**Analysis Issues in Genome-Wide Association Studies**, Nancy J. Cox, Chairperson, Korbel 4, Colorado Convention Center, p. 69

**From Chemistry to the Clinic: Pathways for Drug Discovery and Development: Part 1: Early Discovery and Lead Generation**, Arie Zask, Chairperson, Four Seasons 4, Colorado Convention Center, p. 69

**Mammary Tumor Modeling**, Jos Jonkers, Chairperson, Room 402-404, Colorado Convention Center, p. 70

**Mathematical Models of Tumor Growth and Drug Response**, Vittorio Cristini, Chairperson, Room 205-207, Colorado Convention Center, p. 70

**New Activation and Signal Amplification Strategies in Molecular Imaging**, Samuel Achilefu, Chairperson, Room 601-605, Colorado Convention Center, p. 71

### 8:00 AM-10:00 AM Methods Workshops

**Application of Systems Genetics to Cancer Susceptibility**, David W. Threadgill, Chairperson, Four Seasons 1, Colorado Convention Center, p. 72

**Development and Characterization of Biomarkers for Epidemiological Studies**, Montserrat Garcia-Closas, Chairperson, Room 201-203, Colorado Convention Center, p. 72

**Emerging Radiation Options with Charged Particles**, Stephen M. Hahn, Chairperson, Room 505-507, Colorado Convention Center, p. 73

**Nanotechnology Platforms for Cancer Imaging**, Anna V. Moore, Chairperson, Room 502-504, Colorado Convention Center, p. 73

### 9:00 AM-3:00 PM Cancer and Biomedical Research Career Fair

Lobby D, Colorado Convention Center, p. 74

### 9:00 AM-5:00 PM Professional Advancement Session

**Fourth Women in Cancer Research Leadership Development Workshop: Principles of Negotiations: Building Dynamic and Reciprocal Partnerships in Your World**, Roya Khosravi-Far and Carrie W. Rinker-Schaeffer, Co-Chairpersons, Mineral D-G, Hyatt Regency Denver, p. 74

### 10:15 AM-12:15 PM Basic Science-Clinical Interface Sessions: Pathways to Progress

**Chemokines and Cancer**, Alberto Mantovani, Chairperson, Korbel 4, Colorado Convention Center, p. 75

**Forkhead Box Proteins in Cancer**, Tak W. Mak, Chairperson, Room 405-407, Colorado Convention Center, p. 75

**Therapeutic Targeting of ras Pathways**, David A. Tuveson, Chairperson, Korbel 1, Colorado Convention Center, p. 76

## Saturday, April 18

### 10:15 AM-12:15 PM Educational Sessions

**Cancer Nanotherapeutics**, Mauro Ferrari, Chairperson, Room 301-303, Colorado Convention Center, p. 77

**From Chemistry to the Clinic: Pathways for Drug Discovery and Development: Part 2: Emerging Molecular Targets**, Matt V. Lorenzi, Chairperson, Four Seasons 4, Colorado Convention Center, p. 77

**Functional Screens to Identify New Cancer Targets**, William C. Hahn, Chairperson, Four Seasons 1, Colorado Convention Center, p. 78

**Interethnic Differences in Response to Anticancer Agents**, Boon-Cher Goh, Chairperson, Room 502-504, Colorado Convention Center, p. 78

**Metastasis and Invasion: The Chemist's Perspective**, Kirk L. Stevens and Olivia Rossanese, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 79

**Progress in Molecular Mechanisms of Pediatric Cancer**, Jonathan A. Fletcher, Chairperson, Room 505-507, Colorado Convention Center, p. 79

**The Immunologic Biomarkers of Cancer Diagnosis and Prognosis**, Mary L. Disis, Chairperson, Room 601-605, Colorado Convention Center, p. 80

**The Transition from *In Situ* to Invasive Breast Cancer**, Stuart J. Schnitt, Chairperson, Room 205-207, Colorado Convention Center, p. 80

### 10:15 AM-12:15 PM Methods Workshops

**High-Throughput Approaches to Drug Discovery**, Spyro Mousses, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 81

**Integrating Imaging into Preclinical and Clinical Trials**, Lawrence H. Schwartz, Chairperson, Room 201-203, Colorado Convention Center, p. 81

**Methods in Cancer Epigenetics and Epigenomics**, Christoph Plass, Chairperson, Korbel 2-3, Colorado Convention Center, p. 82

**Whole Genome Approaches to Cancer Gene Discovery**, René Bernards, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 82

### 12:00 PM-4:00 PM Professional Advancement Session

**Undergraduate Student Caucus and Poster Competition**, Arti C. Varanasi, Moderator, Centennial F-H, Hyatt Regency Denver, p. 83

### 12:00 PM-5:00 PM Professional Advancement Session

**Twelfth Annual Grant Writing Workshop**, Centennial A-B, Hyatt Regency Denver, p. 84

### 1:00 PM-3:00 PM Basic Science-Clinical Interface Sessions: Pathways to Progress

**DNA Repair Proteins as Molecular Targets for Cancer Therapeutics**, Mark R. Kelley, Chairperson, Room 205-207, Colorado Convention Center, p. 85

**Hedgehog Signaling Antagonists for Cancer Therapeutics**, Jingwu Xie, Chairperson, Korbel 4, Colorado Convention Center, p. 86

**Systems Biology and Signaling Networks**, Alejandro Sweet-Cordero, Chairperson, Korbel 1, Colorado Convention Center, p. 87

**Targeting mTOR to Inhibit Cancer Cell Growth and Cell Cycle**, Joyce M. Slingerland, Chairperson, Room 402-404, Colorado Convention Center, p. 88

Saturday, April 18

**1:00 PM-3:00 PM Educational Sessions**

**Aspects of the Tumor Microenvironment that Regulate Solid Tumor Development**, Lisa M. Coussens, Chairperson, Korbel 2-3, Colorado Convention Center, p. 89

**Cross-Talk Between Epigenetic Modifications and Non-coding RNAs in Human Cancer**, Manel Esteller and George A. Calin, Co-Chairpersons, Four Seasons 2-3, Colorado Convention Center, p. 89

**EMT and Stem Cells**, Sendurai A. Mani, Chairperson, Room 601-605, Colorado Convention Center, p. 90

**From Chemistry to the Clinic: Pathways for Drug Discovery and Development: Part 3: Optimizing Drug Discovery - Insights on an Important Process**, Michael J. Luzzio, Chairperson, Four Seasons 4, Colorado Convention Center, p. 90

**Pharmacogenomics in Assessing Cancer Therapy**, M. Eileen Dolan, Chairperson, Four Seasons 1, Colorado Convention Center, p. 91

**Precision Medicine – Optimization Of Diagnostics: The Innovator's Prescription**, Nita J. Maihle, Chairperson, Room 201-203, Colorado Convention Center, p. 91

**What Causes Cancer? Epidemiology Beyond Genes**, Maria Elena Martinez, Chairperson, Room 405-407, Colorado Convention Center, p. 92

**1:00 PM-3:00 PM Methods Workshops**

**Clinical Trial Designs Workshop: Design and Implementation of Innovative Clinical Trials: Part 1- Early Phase Trials and Discovery**, Lillian L. Siu and J. Jack Lee, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 93

**GWAs, SNPs, and Copy Number Variants in Cancer**, Katherine L. Nathanson, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 93

**Integrating Molecular Imaging with Biomarkers and Functional Measures**, Michael V. Knopp, Chairperson, Room 301-303, Colorado Convention Center, p. 94

**Three-Dimensional Organotypic Models**, Simon W. Hayward, Chairperson, Room 505-507, Colorado Convention Center, p. 94

**3:15 PM-5:15 PM Basic Science-Clinical Interface Sessions: Pathways to Progress**

**Fusion Proteins in Hematologic Malignancies: MLL and Company**, Janet D. Rowley, Chairperson, Room 601-605, Colorado Convention Center, p. 95

**HER2-Targeting Therapies, Resistance, and Counter-acting Strategies**, Dihua Yu, Chairperson, Room 201-203, Colorado Convention Center, p. 95

**Notch Signaling: Finding New Targets of Cancer Treatment**, Tong Dai, Chairperson, Four Seasons 1, Colorado Convention Center, p. 96

**3:15 PM-5:15 PM Educational Sessions**

**Approaches for *In Vivo* Real Time Imaging of Distinct Cellular Populations in Tumors**, Mikala Egeblad, Chairperson, Room 205-207, Colorado Convention Center, p. 97

**Biology and Genetics of Metastasis**, Kent W. Hunter, Chairperson, Korbel 4, Colorado Convention Center, p. 97

**Cancer as an Ecological and Evolutionary Process**, Carlo C. Maley, Chairperson, Room 505-507, Colorado Convention Center, p. 98

**Epigenetic Therapies to Overcome Resistance**, Kenneth P. Nephew, Chairperson, Room 405-407, Colorado Convention Center, p. 98

**From Chemistry to the Clinic: Pathways for Drug Discovery and Development: Part 4: Chemical Development - Translating a Potent Agent into a Registered Product**, Stephen A. Munk, Chairperson, Four Seasons 4, Colorado Convention Center, p. 99

**Targeting Tumor Vasculature for Imaging and Therapy**, Rakesh K. Jain, Chairperson, Korbel 2-3, Colorado Convention Center, p. 99

**Tumor Microenvironment: Pro- and Antitumor Immunity**, Suzanne Ostrand-Rosenberg, Chairperson, Korbel 1, Colorado Convention Center, p. 100

## Saturday, April 18

### 3:15 PM-5:15 PM **Methods Workshops**

**Clinical Trial Designs Workshop: Design and Implementation of Innovative Clinical Trials: Part 2: Late Phase Trials and Validation**, Lillian L. Siu and J. Jack Lee, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 101

**Methods in Cancer Metabolism**, Paul M. Hwang, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 101

**Proteomics Technology Platforms for the Cancer Biomarker Pipeline**, Daniel C. Liebler, Chairperson, Room 402-404, Colorado Convention Center, p. 102

**Pushing the Boundaries: New Tools for Molecular Epidemiology**, Thomas A. Sellers, Chairperson, Room 301-303, Colorado Convention Center, p. 102

**Single Molecule Sequencing Approaches, Methods, and Applications**, Michael R. Stratton, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 103

### 5:15 PM-6:30 PM **Lecture**

**Twelfth Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lecture**, Jessica K. Tyler, Room 705-711, Colorado Convention Center, p. 104

### 5:30 PM-7:45 PM **Professional Advancement Session**

**Careers in Clinical and Translational Cancer Research**, William N. Hait, Chairperson, Capitol Ballroom 1-4, Hyatt Regency Denver, p. 105

**7:00 AM-8:00 AM Meet-the-Expert Sessions**

**Biomarker Selection of Non-Small Cell Lung Cancer Patients for Initial Therapy**, Paul A. Bunn, Jr., Room 505-507, Colorado Convention Center, p. 107

**Cell-Cell Adhesion in Development and Cancer**, Ann M. Pendergast, Room 201-203, Colorado Convention Center, p. 107

**Development, Validation, Interpretation, and Clinical Implementation of Statistical Models for Familial Risk Prediction**, Giovanni Parmigiani, Room 301-303, Colorado Convention Center, p. 107

**Diet, Nutrition, and Cancer: The Search for Truth**, Walter C. Willett, Room 502-504, Colorado Convention Center, p. 107

**Investigating Rearrangements in Human Cancer**, P. Andrew Futreal, Four Seasons 1, Colorado Convention Center, p. 108

**Mitochondria and Apoptosis: Stepping Stones on the Road to Ruin**, Douglas R. Green, Room 205-207, Colorado Convention Center, p. 108

**Novel Strategies in the Therapy of HER2-Positive Breast Cancer**, José Baselga, Room 601-605, Colorado Convention Center, p. 108

**PI3 Kinase in Tumors of the Nervous System**, William A. Weiss, Room 402-404, Colorado Convention Center, p. 108

**Proteomics and Mass Spectrometry: Applications to Cancer Research**, Natalie G. Ahn, Room 405-407, Colorado Convention Center, p. 109

**TGFβ: The Good, the Bad, and the Surprising**, Mary Helen Barcellos-Hoff, Four Seasons 4, Colorado Convention Center, p. 109

**The Hypoxic Microenvironment: Inflammation and Tumor Progression**, Randall S. Johnson, Four Seasons 2-3, Colorado Convention Center, p. 109

**Using Mouse Models to Understand p53**, Laura D. Attardi, Wells Fargo 1, Colorado Convention Center, p. 109

**7:00 AM-8:00 AM NCI/NIH-Sponsored Session**

**NIH Grants: Changes in Review and Funding Opportunities**, Suresh Mohla, Moderator, Room 607, Colorado Convention Center, p. 110

**8:00 AM-12:00 PM Poster Sessions**

Hall B-F, Colorado Convention Center

- PR 1 Biological and Biochemical Mechanisms of Prevention**, Poster Section 1, p. 111
- PR 2 Diet and Cancer**, Poster Section 2, p. 112
- EP 1 Nutrition, Physical Activity, and Cancer**, Poster Section 3, p. 113
- EP 2 Post Genome-Wide Association Studies, Candidate Genes, Pathways, and Haplotypes**, Hall B-F, Poster Section 4, p. 114
- TB 1 Angiogenesis Inhibitors 1**, Poster Section 5, p. 115
- TB 2 Angiogenesis Inhibitors 2**, Poster Section 6, p. 116
- TB 3 Cancer Stem Cells: Isolation and Characterization 1**, Poster Section 7, p. 117
- TB 4 Epithelial-Mesenchymal Transition in Cancer Progression and Metastasis**, Poster Section 8, p. 118
- TB 5 Hypoxia in the Microenvironment**, Poster Section 9, p. 119
- TB 6 Targets in the Microenvironment**, Poster Section 10, p. 120
- TB 7 Tumor Models**, Poster Section 11, p. 121
- TB 8 Tumor-Stromal Interactions**, Poster Section 12, p. 122
- IM 1 Cancer Vaccines: Preclinical and Animal Models**, Poster Section 16, p. 123
- CB 1 Autophagy**, Poster Section 17, p. 124
- CB 2 Caspases and IAPs**, Poster Section 18, p. 125
- CB 3 Cytoplasmic Signal Transducers**, Poster Section 19, p. 126
- CB 4 DNA Damage, Repair, and Genome Maintenance 1**, Poster Section 20, p. 127
- CB 5 Epigenetic Changes in Cancer**, Poster Section 21, p. 128
- CB 6 Gene Expression in Cancer**, Poster Section 22, p. 129

## Sunday, April 19

- CB 7** MicroRNA/Noncoding RNA Expression in Cancer 1, Poster Section 23, p. 130
- CB 8** MicroRNA/Noncoding RNA Expression in Cancer 2, Poster Section 24, p. 131
- CB 9** Tumor Suppressors 1, Poster Section 25, p. 132
- CH 1** Drug Delivery, Poster Section 28, p. 133
- CH 2** Drug Design, Poster Section 29, p. 134
- CL 1** Biomarkers to Predict Treatment Response, Poster Section 30, p. 135
- CL 2** Cancer Vaccines: Human Studies, Poster Section 31, p. 136
- CL 3** Predictive Markers for Selecting Therapy, Poster Section 32, p. 137
- CG 1** Pathogen-Host Interaction and Transformation, Poster Section 33, p. 138
- EN 1** Endocrinology 1, Poster Section 34, p. 139
- ET 1** Combination Chemotherapy 1, Poster Section 35, p. 140
- ET 2** Kinases and Other Membrane Targets, Poster Section 36, p. 141
- ET 3** Mechanisms of Drugs Based on p53 and Novel Cellular Pathways, Poster Section 37, p. 142
- ET 4** P-glycoprotein and Non-P-glycoprotein Transporter Multidrug Resistance and Reversal, Poster Section 38, p. 143

### 8:00 AM-12:00 PM Late-Breaking Poster Sessions

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 1**, Poster Section 14, p. 110

**Late-Breaking Research: Experimental and Molecular Therapeutics 1**, Poster Section 27, p. 110

#### 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

### 8:15 AM-9:30 AM Opening Ceremony/ Award Presentations

**Opening Ceremony**, Hall A, Colorado Convention Center, p. 144

**Third Annual Team Science Award**, Hall A, Colorado Convention Center, p. 145

**Sixth Annual AACR Award for Lifetime Achievement in Cancer Research**, Hall A, Colorado Convention Center, p. 146

**Presentation of AACR Centennial Medals for Distinguished Public Service**, Hall A, Colorado Convention Center, p. 148

**Third Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research**, Hall A, Colorado Convention Center, p. 150

**2009 Award for Distinguished Public Service**, Hall A, Colorado Convention Center, p. 151

### 9:30 AM-12:30 PM Opening Plenary Session

**Opening Plenary Session**, Michael A. Caligiuri, Chairperson, Hall A, Colorado Convention Center, p. 152

### 12:30 PM-1:30 PM Lecture

**Twelfth Annual Pezcoller Foundation-AACR International Award for Cancer Research Lecture**, Napoleone Ferrara, Hall A, Colorado Convention Center, p. 154

### 12:30 PM-2:00 PM NCI/NIH-Sponsored Session

**NCI Supported Extramural Research Training and Career Development Opportunities: Which Are Best for My Career Path?** Room 607, Colorado Convention Center, p. 155

**12:30-2:30 PM      New Concepts in  
Organ Site Research**

**Emerging Biological Observations in Prostate Cancer and Their Translation**, Eric J. Small and Cory Abate-Shen, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 156

**Genetic Basis of Childhood Cancer**, John M. Maris and Tom Curran, Co-Chairpersons, Room 201-203, Colorado Convention Center, p. 156

**Invading the Sanctuary: New Approaches to Brain Metastases**, Henry Brem and Patricia S. Steeg, Co-Chairpersons, Room 601-605, Colorado Convention Center, p. 157

**State-of-the-Art Pathophysiology and Therapy of Acute Myeloid Leukemia**, Hagop Kantarjian and Guido Marcucci, Sr., Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 157

**Tumor-Stromal Interactions Regulating Breast Tumor Progression**, Kornelia Polyak and Marsha R. Rosner, Co-Chairpersons, Four Seasons 2-3, Colorado Convention Center, p. 158

**1:00 PM-2:30 PM      Forums**

**Assessing Response Using Imaging to Determine Endpoints in Clinical Trials**, Michael V. Knopp, Moderator, Korbel 4, Colorado Convention Center, p. 159

**Lung Cancer Screening Controversies: Does Every CT-detected Lung Cancer Need Intervention?**, Jack A. Roth, Moderator, Korbel 2-3, Colorado Convention Center, p. 159

**Silencing Cancer? Potential and Obstacles for RNAi-Based Therapies**, Judy Lieberman, Moderator, Korbel 1, Colorado Convention Center, p. 159

**1:00 PM-3:00 PM      Drug Development  
Track: Special Session**

**Drug Development Track-Special Session 1: New Drugs on the Horizon**, Steven K. Davidsen and Emma M. Lees, Co-Chairpersons, Wells Fargo 1, Colorado Convention Center, p. 160

**1:00 PM-5:00 PM      Poster Sessions**

**PR 3      Chemoprevention Studies 1**, Poster Section 1, p. 161

**PR 4      Chemoprevention Studies 2**, Poster Section 2, p. 162

**EP 3      Descriptive Epidemiology, Cancer in Minorities, Childhood Cancer, and Methods**, Poster Section 3, p. 163

**EP 4      DNA Repair and Other Biomarkers Associated with Cancer Risk and Outcomes**, Poster Section 4, p. 164

**TB 9      Biomarkers of Tumor Metastasis**, Poster Section 5, p. 165

**TB 10      Cancer Stem Cells: Therapies and Chemoresistance**, Poster Section 6, p. 166

**TB 11      Cytokines and Chemokines in the Microenvironment**, Poster Section 7, p. 167

**TB 12      Extracellular Matrix and Proteases in Tumorigenesis**, Poster Section 8, p. 168

**TB 13      Innate Immune Response in Tumorigenesis**, Poster Section 9, p. 169

**TB 14      Metastasis Suppressor Genes**, Poster Section 10, p. 170

**CG 2      Chemical and Environmental Carcinogenesis**, Poster Section 11, p. 171

**IM 2      Antibody and Antibody Targets**, Poster Section 12, p. 172

**CB 10      Cell Cycle 1**, Poster Section 16, p. 173

**CB 11      DNA Damage, Repair, and Genome Maintenance 2**, Poster Section 17, p. 174

**CB 12      Epigenetic Changes as Molecular Markers of Cancer 1**, Poster Section 18, p. 175

**CB 13      Growth Factors and Cell Surface-Related Oncogenes**, Poster Section 19, p. 176

**CB 14      MicroRNAs/Noncoding RNAs: Therapeutic Relevance and Biomarkers**, Poster Section 20, p. 177

**CB 15      Oncogenomics 1: Genome-wide DNA Alterations in Cancer**, Poster Section 21, p. 178

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- CB 16** **Oncogenomics 2: Genome-wide mRNA Profiling of Cancer**, Poster Section 22, p. 179
- CB 17** **Survival and Death Signaling**, Poster Section 23, p. 180
- CB 18** **Transcription Factors**, Poster Section 24, p. 181
- CB 19** **Transcriptional Regulation**, Poster Section 25, p. 182
- CH 3** **Chemistry 1**, Poster Section 28, p. 183
- CL 4** **Biomarkers for Cancer Diagnosis**, Poster Section 29, p. 184
- CL 5** **Biomarkers for Outcome Prediction**, Poster Section 30, p. 185
- CL 6** **Genomic Alterations**, Poster Section 31, p. 186
- CL 7** **Issues Involving Clinical Research and Care**, Poster Section 32, p. 187
- ET 5** **Agents Targeting Folate Pathway or Topoisomerases**, Poster Section 33, p. 188
- ET 6** **Biochemical Modulators**, Poster Section 34, p. 189
- ET 7** **Kinase Inhibitors 1**, Poster Section 35, p. 190
- ET 8** **Novel Agents 1**, Poster Section 36, p. 191
- ET 9** **Novel Agents 2**, Poster Section 37, p. 192
- ET 10** **Protein Kinase and Other Inhibitors in Mechanism-Based Drug Cytotoxicity**, Poster Section 38, p. 193

### 1:00 PM-5:00 PM **Late-Breaking Poster Sessions**

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Cancer Chemistry**, Poster Section 26, p. 160

**Late-Breaking Research: Tumor Biology 1**, Poster Section 13, p. 160

#### Category Codes for Poster Sessions and Minisymposia

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EP = Epidemiology; ET = Experimental and Molecular Therapeutics;  
IM = Immunology; PR = Prevention Research; TB = Tumor Biology

### 1:30 PM-4:00 PM **Symposium**

**Future Leaders Special Symposium**, Room 205-207, Colorado Convention Center, p. 194

### 2:00 PM-5:30 PM **Minisymposia**

- CG 3** **Infectious Agents and Cancer**, Lawrence A. Loeb and Young C. Lin, Co-Chairpersons, Room 505-507, Colorado Convention Center, p. 195
- CB 20** **Autophagy and Cancer**, Jayanta Debnath and Andrew M. Thorburn, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 195
- CB 21** **Understanding and Targeting Oncogenic Pathways**, Linda J. Z. Penn and Klaus P. Hoeflich, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 196
- CL 8** **Molecular Markers for Detection and Predicting Therapeutic Response**, Pasi A. Jänne and John V. Heymach, Co-Chairpersons, Room 705-711, Colorado Convention Center, p. 197
- EP 5** **Cancer Risk Genes: Genome-wide Association Studies and Beyond**, James R. Cerhan and Qingyi Wei, Co-Chairpersons, Room 702-706, Colorado Convention Center, p. 198
- ET 11** **Novel Targeted Agents**, Percy Ivy and Kyle D. Holen, Co-Chairpersons, Room 708-712, Colorado Convention Center, p. 199
- IM 3** **Tumor Immunity and Immune Regulation**, Weiping Zou and Charles G. Drake, Co-Chairpersons, Room 301-303, Colorado Convention Center, p. 200
- TB 15** **Stem Cell Biology, Therapies, and Tumorigenesis**, Peter B. Dirks and Charlotte Kuperwasser, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 200

### 2:00 PM-4:00 PM **Special Session**

**MICR Council "Meet and Greet,"** Room 401, Colorado Convention Center, p. 201



**2:30 PM-4:00 PM Forum**

**Science Policy Forum: Beyond the HIPAA Privacy Rule**, Sandra J. Horning and Sharyl J. Nass, Co-Chairpersons, Room 607, Colorado Convention Center, p. 201

**3:00 PM-5:00 PM CBC Special Session**

**Towards a More Efficient Biomarker Development Process: Right on the Path of the Critical Path**, William N. Hait, Samir N. Khleif, and James H. Doroshow, Co-Chairpersons, Room 201-203, Colorado Convention Center, p. 202

**3:15 PM-5:15 PM Drug Development Track: Special Session**

**Drug Development Track Special Session 2: New Drugs on the Horizon**, Tona M. Gilmer and Matthew A. Marx, Co-Chairpersons, Wells Fargo 1, Colorado Convention Center, p. 202

**3:15 PM-5:15 PM Symposia**

**Cancer Systems Biology**, Douglas A. Lauffenburger, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 203

**DNA Damage Response: From Checkpoints to Repair**, Helen M. Piwnica-Worms, Chairperson, Four Seasons 1, Colorado Convention Center, p. 203

**Metastasis Models, Microenvironment, and Mechanisms**, Joan Massagué, Chairperson, Korbel 2-3, Colorado Convention Center, p. 204

**MicroRNAs and Human Cancer**, Carlo M. Croce, Chairperson, Wells Fargo 2, Colorado Convention Center, p. 204

**Regulation of Angiogenesis by Microenvironmental Cues**, Gabriele I. A. Bergers, Chairperson, Korbel 4, Colorado Convention Center, p. 205

**Resistance to Targeted Therapies**, Branimir I. Sikic, Chairperson, Four Seasons 4, Colorado Convention Center, p. 205

**Transcription and Histone Modification in Cancer**, Katherine A. Jones, Chairperson, Korbel 1, Colorado Convention Center, p. 206

**4:15 PM-5:30 PM Lecture**

**Fourth Annual AACR-Minorities in Cancer Research Jane Cooke Wright Lecture**, Otis Webb Brawley, Room 205-207, Colorado Convention Center, p. 207

**5:30 PM-6:30 PM Lecture**

**Third Annual AACR Award for Outstanding Achievement in Chemistry in Cancer Research Lecture**, F. Peter Guengerich, Room 205-207, Colorado Convention Center, p. 208

**5:30 PM-6:30 PM Meet-the-Expert Sessions**

**Control of Gene Therapy by Ionizing Radiation: Basic Principles to Clinical Trials**, Ralph R. Weichselbaum, Four Seasons 4, Colorado Convention Center, p. 209

**Drug Discovery in the p53 Pathway**, David P. Lane, Four Seasons 1, Colorado Convention Center, p. 209

**Sequencing a Cancer Genome**, Michael R. Stratton, Four Seasons 2-3, Colorado Convention Center, p. 209

**5:30 PM-7:00 PM Professional Advancement Session**

**Establishing Successful Relationships for Productive Careers: Mentorship and Career Development Planning**, Capitol Ballroom 5-7, Hyatt Regency Denver, p. 210

**6:00 PM-7:30 PM Town Meeting**

**Cancer Immunology Working Group (CIMM) Town Meeting and Reception**, Louis M. Weiner, Chairperson, Mineral D-E, Hyatt Regency Denver, p. 211

**9:00 PM-11:30 PM AACR Annual Reception**

Centennial Ballroom, Hyatt Regency Denver, p. 211

## Monday, April 20

### 7:00 AM-8:00 AM Meet-the-Expert Sessions

**Achieving the Potential of Chemoprevention**, Frank L. Meyskens, Jr., Room 405-407, Colorado Convention Center, p. 219

**Cancer-Related Inflammation**, Frances R. Balkwill, Four Seasons 4, Colorado Convention Center, p. 219

**Correlating Histology and Tissue Proteomics Using Mass Spectrometry in Cancer Research**, Richard M. Caprioli, Room 402-404, Colorado Convention Center, p. 219

**Dissecting the Cancer Epigenome for its Constituents, Origins, Contributions to Tumorigenesis, and Translational Implications**, Stephen B. Baylin, Four Seasons 2-3, Colorado Convention Center, p. 220

**HSP90 Inhibitors and Beyond: New Ways of Targeting the Molecular Chaperone**, Paul Workman, Wells Fargo 1, Colorado Convention Center, p. 220

**Immunologic Biomarkers: Measuring Immune Stimulation and Suppression**, Mary L. Disis, Room 502-504, Colorado Convention Center, p. 220

**Regulation of Growth by the mTOR Pathway**, David M. Sabatini, Room 601-605, Colorado Convention Center, p. 221

**T Cell Antigen Recognition and Tolerance**, Philippa Marrack, Room 301-303, Colorado Convention Center, p. 221

**The Influence of the Tumor Microenvironment on Drug Response and Drug Resistance**, William S. Dalton, Room 205-207, Colorado Convention Center, p. 221

**Translational Implications of Colon Cancer Genetics**, Sanford D. Markowitz, Room 201-203, Colorado Convention Center, p. 222

**Tumor Microenvironment Controls the Rate of Cancer Progression and Metastasis**, Raghu Kalluri, Four Seasons 1, Colorado Convention Center, p. 222

**Why Development Compounds Fail, and What Industry Is Doing to Increase Success Rates**, John T. Hunt, Room 505-507, Colorado Convention Center, p. 222

### 7:45 AM-10:40 AM Spotlight on Breakthroughs in Cancer Research

Hall A, Colorado Convention Center, p. 223

### 8:15 AM-10:00 AM Forum

**Women in Cancer Research Career Mentoring Forum**, Capitol Ballroom 1-3, Hyatt Regency Denver, p. 224

### 8:30 AM-11:00 AM Symposium

**Ethical Issues in Publications**, Walter Wolf and Lowell E. Schnipper, Co-Chairpersons, Room 708-712, Colorado Convention Center, p. 225

### 9:30 AM-2:30 PM Professional Advancement Session

**Special Program for High School Students: The Conquest of Cancer and the Next Generation of Cancer Researchers**, Room 505-507, Colorado Convention Center, p. 226

**9:30 AM-1:00 PM Minisymposia**

- CB 22 Apoptosis and Therapy**, Eileen P. White and Mohanish Deshmukh, Co-Chairpersons, Room 205-207, Colorado Convention Center, p. 227
- CB 23 MicroRNAs/Noncoding RNAs and Cancer**, Muneesh Tewari and Frank Slack, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 227
- EP 6 Advances in Cancer Epidemiology: Etiologic and Outcomes Research**, Paolo Boffetta and Margaret R. Karagas, Co-Chairpersons, Room 301-303, Colorado Convention Center, p. 228
- ET 12 Novel Molecular Targets / Targeting Cell Death Pathways**, Peter J. Houghton and Nisar Malek, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 229
- TB 16 Mechanistic Approaches to Targeting Angiogenesis**, Parkash S. Gill and Michael S. O'Reilly, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 230

**10:00 AM-12:00 PM Forum**

**MICR Forum: Preparing Junior Investigators for the Future: How to Use Career Development Awards Effectively**, Electra D. Paskett and John D. Carpten, Co-Chairpersons, Room 702-706, Colorado Convention Center, p. 231

**10:00 AM-12:00 PM Symposium**

**Circulating Tumor Cells: Biology and Clinical Applications for Research and Practice**, Howard I. Scher, Chairperson, Room 601-605, Colorado Convention Center, p. 232

**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

**10:30 AM-12:00 PM NCI/NIH-Sponsored Session**

**Cancer Biomedical Informatics Grid® (caBIG®) Resources to Support Life Sciences and Translational Research**, Leslie K. Derr, Moderator, Room 607, Colorado Convention Center, p. 233

**10:30 AM-12:30 PM Symposia**

- Cancer Genomics and Drug Discovery**, René Bernards, Chairperson, Four Seasons 1, Colorado Convention Center, p. 234
- Epithelial-Mesenchymal Transitions in Cancer**, Thea D. Tlsty and Greg D. Longmore, Co-Chairpersons, Wells Fargo 1, Colorado Convention Center, p. 234
- How Do Mouse Models of Cancer Inform Clinical Trials?** Joanna L. Groden, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 235
- Immune Regulation in the Tumor Microenvironment**, Thomas F. Gajewski, Chairperson, Korbel 4, Colorado Convention Center, p. 236
- Molecular Biomarkers of Response and Toxicity**, Patricia M. LoRusso, Chairperson, Four Seasons 4, Colorado Convention Center, p. 237
- Ruth Sager Memorial Symposium on Cancer Genetics and Epigenetics: Epigenomics and the Stem Cell: The Cancer Connection**, Peter A. Jones, Chairperson, Korbel 1, Colorado Convention Center, p. 237

**10:40 AM-11:40 AM Presidential Address**

**Cancer Prevention: From Molecules to Practice**, Raymond N. DuBois, Hall A, Colorado Convention Center, p. 238

**11:45 AM-12:45 PM NCI Director Session**

**Address by the Director of the National Cancer Institute**, Korbel 2-3, Colorado Convention Center, p. 238

# Monday, April 20

## 12:00 PM-1:30 PM NCI/NIH-Sponsored Session

**Funding for Innovative Cancer Research: Support for Small Businesses from the NCI SBIR and STTR Program**, Room 607, Colorado Convention Center, p. 238

## 12:30 PM-2:30 PM New Concepts in Organ Site Research

**Basic and Translational Advances in Pancreatic Cancer Treatment**, Diane M. Simeone and Channing J. Der, Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 239

**From Experimental Models to Targeted Therapy of Neuroendocrine Tumors**, Manisha H. Shah and Marco A. Pierotti, Co-Chairpersons, Room 201-203, Colorado Convention Center, p. 239

**Personalized Therapies for Lung Cancer**, Waun Ki Hong and Gerold Bepler, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 240

**Renal Cancer: Co-opting the Hypoxia Pathway for Oncogenesis and Taking It Back for Therapeutics**, Walter M. Stadler and Othon Iliopoulos, Co-Chairpersons, Room 601-605, Colorado Convention Center, p. 240

**Triple Negative Breast Cancer: Molecular Profiles, Mechanisms, and Clinical Directions**, Carlos L. Arteaga and Daniel F. Hayes, Co-Chairpersons, Four Seasons 2-3, Colorado Convention Center, p. 241

## 12:45 PM-2:00 PM AACR Business Meeting

**AACR Annual Business Meeting of Members**, Room 708-712, Colorado Convention Center, p. 242

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## 1:00 PM-2:30 PM Forums

**Cell-Cell Interactions in Angiogenesis**, Brant M. Weinstein, Moderator, Korbel 2-3, Colorado Convention Center, p. 243

**Genome-wide Scanning and Personalized Health: Where Is the Fit?**, P. Andrew Futreal, Moderator, Korbel 1, Colorado Convention Center, p. 243

**Immunological Therapy of Cancer: New Strategies and Clinical Endpoints**, James P. Allison, Moderator, Wells Fargo 1, Colorado Convention Center, p. 244

**Molecular Biology in Early Phase Clinical Trials**, Roy S. Herbst, Moderator, Korbel 4, Colorado Convention Center, p. 244

## 1:00 PM-4:30 PM Minisymposia

**CH 4 Drug Discovery: Lead Optimization**, Robert R. Webb and Karen Miller-Moslin, Co-Chairpersons, Room 505-507, Colorado Convention Center, p. 245

**CG 4 DNA Damage and Cancer**, Altaf A. Wani and Elizabeth A. McNiel, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 246

**CB 24 Death Receptors and IAPs in Apoptosis Regulation**, Simone Fulda and Domagoj Vucic, Co-Chairpersons, Room 702-706, Colorado Convention Center, p. 246

**ET 13 Up and Coming Targeted Biologic Strategies**, Yaron R. Hadari and Yongping G. Crawford, Co-Chairpersons, Room 705-711, Colorado Convention Center, p. 247

**PR 5 Diet and Cancer, Animal Models of Prevention, and Chemoprevention Studies**, Banu Arun, Chairperson, Room 301-303, Colorado Convention Center, p. 247

**TB 17 The Tumor Microenvironment: Opportunities for Therapeutic Intervention**, Michael C. Ostrowski and Sheila A. Stewart, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 248

**TB 18 Tumor Animal Models**, Gustavo W. Leone and J. A. Diehl, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 248

## 1:00 PM-5:00 PM Poster Sessions

Hall B-F, Colorado Convention Center

**PR 6 Animal Models in Prevention**, Poster Section 1, p. 249

**EP 7 Candidate Genes and Risk of Gastrointestinal and Prostate Cancers**, Poster Section 2, p. 250

**EP 8 Tobacco, Alcohol, Occupation, Medical Conditions, and Infections**, Poster Section 3, p. 251

**TB 19 Adhesion, Migration, and Invasion**, Poster Section 4, p. 252

**TB 20 Biology of Pediatric Cancer**, Poster Section 5, p. 253

**TB 21 Mediators of Tumor Progression, Invasion, and Metastasis 1**, Poster Section 6, p. 254

**TB 22 Mediators of Tumor Progression, Invasion, and Metastasis 2**, Poster Section 7, p. 255

**TB 23 Models of Tumor Progression, Invasion, and Metastasis**, Poster Section 8, p. 256

**TB 24 Radiosensitizers and Radioprotectors**, Poster Section 9, p. 257

**TB 25 Therapies in Mice**, Poster Section 10, p. 258

**CG 5 Models and Mechanisms of Carcinogenesis**, Poster Section 11, p. 259

**EN 2 Endocrinology 2**, Poster Section 12, p. 260

**IM 4 Immune Modulating Antibodies and Lymphocyte Transfer**, Poster Section 16, p. 261

**CB 25 Cancer Informatics 1**, Poster Section 17, p. 262

**CB 26 Cancer Informatics 2**, Poster Section 18, p. 263

**CB 27 Cell Cycle 2**, Poster Section 19, p. 264

**CB 28 Membrane Receptors and G Protein Signaling in Cancer**, Poster Section 20, p. 265

**CB 29 MicroRNAs/Noncoding RNAs in Cancer Biology**, Poster Section 21, p. 266

**CB 30 Molecular Markers**, Poster Section 22, p. 267

**CB 31 Oncogenomics 3: Non-coding RNAs, microRNAs, siRNAs, and Functional Genomics**, Poster Section 23, p. 268

**CB 32 Proteomic, Metabolomic, Cell, and Tissue Technologies**, Poster Section 24, p. 269

**CB 33 Regulation of MicroRNA/Noncoding RNA Expression, Functional Genomics, and Other**, Poster Section 25, p. 270

**CH 5 Chemistry 2**, Poster Section 28, p. 271

**CH 6 Chemistry 3**, Poster Section 29, p. 272

**CL 9 Prognostic Markers**, Poster Section 30, p. 273

**CL 10 Signal Transduction Pathways and Cancer Progression**, Poster Section 31, p. 274

**ET 14 Combination Targeted Therapy**, Poster Section 32, p. 275

**ET 15 IGF-IR and PI3K Pathways**, Poster Section 33, p. 276

**ET 16 Novel Molecular Targets for Therapy 1**, Poster Section 34, p. 277

**ET 17 Novel Molecular Targets for Therapy 2**, Poster Section 35, p. 278

**ET 18 Pharmacology, Pharmacogenetics, and Pharmacogenomics**, Poster Section 36, p. 279

**ET 19 Pharmacology, Pharmacokinetics, and Pharmacodynamics**, Poster Section 37, p. 280

**ET 20 Resistance to Antitubulin Drugs, Resistance to Platinums, and Glutathione Metabolism**, Poster Section 38, p. 281

## Monday, April 20

### 1:00 PM-5:00 PM Late-Breaking Poster Sessions

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 2**, Poster Section 15, p. 244

**Late-Breaking Research: Clinical Research 1 – Phase I-III Clinical Trials**, Poster Section 27, p. 244

### 1:30 PM-3:00 PM Science Policy Forum

**Cancer Drug Development as a Successful Public-Private Enterprise — The NCI in Partnership with Industry**, Miguel A. Villalona-Calero and James A. Zwiebel, Co-Chairpersons, Room 607, Colorado Convention Center, p. 282

### 2:00 PM-3:00 PM Lecture

**Fifth Annual AACR-Irving Weinstein Foundation Distinguished Lecture**, James R. Heath, Wells Fargo 2, Colorado Convention Center, p. 283

### 2:30 PM-4:30 PM Professional Advancement Session

**Targeting a Job in Industry**, Room 708-712, Colorado Convention Center, p. 284

### 2:30 PM-4:30 PM AACR/ASCO Symposium

**COX-2 and Cancer Treatment**, Raymond N. DuBois and Richard L. Schilsky, Co-Chairpersons, Room 205-207, Colorado Convention Center, p. 285

### 2:30 PM-4:30 PM Symposia

**The Bayard D. Clarkson Symposium on Stem Cells and Cancer: Advances in Cancer Stem Cells**, Jeremy N. Rich, Chairperson, Korbel 2-3, Colorado Convention Center, p. 286

**Cancer Metabolism: Back to the Future**, Tak W. Mak, Chairperson, Korbel 1, Colorado Convention Center, p. 286

**Cell Cycle and Senescence in Cancer**, Karen H. Vousden, Chairperson, Four Seasons 4, Colorado Convention Center, p. 287

**Genome-Wide Association Studies in Cancer: Current and Future Directions**, Stephen J. Chanock and John D. Carpten, Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 288

**Imaging Cancer Invasion: Metastasis and Resistance**, Peter Friedl, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 288

**NF- $\kappa$ B in the Development and Maintenance of Cancer**, Louis M. Staudt, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 289

**The Cancer Genome: Recent Advances**, James R. Downing, Chairperson, Korbel 4, Colorado Convention Center, p. 289

### 3:00 PM-5:00 PM NCI/NIH-Sponsored Session

**Cancer Diagnostics Using Nanotechnology Platforms**, Piotr Grodzinski, Moderator, Room 607, Colorado Convention Center, p. 290

### 4:30 PM-4:40 PM Landon Foundation Award Presentation

**Second Annual Landon Foundation-AACR INNOVATOR Award for International Collaboration in Cancer Research**, Hall A, Colorado Convention Center, p. 291

## 4:40 PM-5:30 PM Lecture

**Eighth Annual Kirk A. Landon-AACR Prize for Basic Cancer Research Lecture**, Peter A. Jones and Stephen B. Baylin, Hall A, Colorado Convention Center, p. 291

## 5:30 PM-5:40 PM Landon Foundation Award Presentation

**Second Annual Landon Foundation-AACR INNOVATOR Award for Cancer Prevention Research**, Hall A, Colorado Convention Center, p. 294

## 5:00 PM-6:30 PM Town Meeting

**Chemistry in Cancer Research Town Meeting and Reception**, Stephen S. Hecht and Laurence H. Hurley, Moderators, Agate A-C, Hyatt Regency Denver, p. 293

## 5:40 PM-6:30 PM Lecture

**Eighth Annual Dorothy P. Landon-AACR Prize for Translational Cancer Research Lecture**, Charles L. Sawyers, Hall A, Colorado Convention Center, p. 295

## 5:00 PM-6:30 PM Town Meeting

**Minorities in Cancer Research (MICR) Town Meeting**, Jean G. Ford, Chairperson, Room 702-706, Colorado Convention Center, p. 293

## 6:30-8:00 PM Town Meeting

**Tumor Microenvironment Town Meeting and Reception**, Bruce R. Zetter, Chairperson, Capitol Ballroom 4-5, Hyatt Regency Denver, p. 296

## 5:00 PM-6:30 PM Professional Advancement Session

**Starting Up and Managing a Successful Laboratory: What Basic Scientists and Clinician-Scientists Should Know**, Room 708-712, Colorado Convention Center, p. 293

## 6:30 PM-8:30 PM Professional Advancement Session

**Minorities in Cancer Research (MICR) Professional Advancement Reception and Roundtable**, Duane T. Smoot and Maria Elena Martinez, Co-Chairpersons, Room 601-605, Colorado Convention Center, p. 297

# Tuesday, April 21

## 7:00 AM-8:00 AM Meet-the-Expert Sessions

**Building the Bridge between the Laboratory and the Clinic for Novel Immunotherapies in Chronic Lymphocytic Leukemia**, John C. Byrd, Room 205-207, Colorado Convention Center, p. 299

**Conducting a Successful International Consortium to Conduct Epidemiologic Research in Gliomas**, Melissa L. Bondy, Room 705-711, Colorado Convention Center, p. 299

**DNA Damage Responses: From Molecular Mechanism to Clinical Intervention**, Michael B. Kastan, Room 402-404, Colorado Convention Center, p. 299

**Inflammation-Regulated EMT in the Pathogenesis of Lung Cancer**, Steven M. Dubinett, Room 502-504, Colorado Convention Center, p. 299

**Mechanism-based Combination Therapy: Combining ERK and PI3K/AKT Inhibitors**, Neal Rosen, Room 301-303, Colorado Convention Center, p. 300

**Mechanistic Discovery in Murine Cancer Models: From Basic Discovery to Clinical Translation**, Terry A. Van Dyke, Four Seasons 1, Colorado Convention Center, p. 300

**Mutant ras in Cancer: Biologic Insights and Therapeutic Potential**, Kevin M. Shannon, Room 405-407, Colorado Convention Center, p. 300

**The Role of Endogenously Expressed Pro-Survival Bcl-2 Family Members in Tumor Development and Sustaining Tumor Growth**, Andreas Strasser, Four Seasons 4, Colorado Convention Center, p. 301

**Translating Cancer Biology into Cancer Medicine: IGFIR Ab Development in Sarcomas**, Lee J. Helman, Room 505-507, Colorado Convention Center, p. 301

**Utilization of DNA Markers in New Models and Primary Tumors for Targeted Therapies**, David Sidransky, Room 601-605, Colorado Convention Center, p. 301

## 8:00 AM-9:00 AM Lecture

**Forty-ninth Annual AACR G.H.A. Clowes Memorial Award Lecture**, Joan Massagué, Wells Fargo 2, Colorado Convention Center, p. 302

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## 8:00 AM-10:00 AM New Concepts in Organ Site Research

**Colon Cancer: Biology, Genetics, and Early Detection**, Albert de la Chapelle and Victor E. Velculescu, Co-Chairpersons, Four Seasons 2-3, Colorado Convention Center, p. 303

**Molecular Epidemiology of Rare Tumors: Challenges and Opportunities**, Julie A. Ross, Chairperson, Room 205-207, Colorado Convention Center, p. 303

**Molecularly Targeted Therapy in Melanoma: Promise and Pitfalls**, Michael B. Atkins and Levi A. Garraway, Co-Chairpersons, Room 201-203, Colorado Convention Center, p. 304

**Ovarian Cancer: A Revolution in Biology and Therapy**, Lynn C. Hartmann and Gordon B. Mills, Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 304

**The Molecular Biology of Lung Cancer in Never Smokers: A Different Disease**, David P. Carbone and Miguel A. Villalona-Calero, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 305

## 8:00 AM-10:00 AM Symposium

**From Molecular Tumor Markers to Health Behaviors: Promises and Challenges of Cancer Survivorship**, Cornelia M. Ulrich, Chairperson, Room 601-605, Colorado Convention Center, p. 306

## 8:00 AM-12:00 PM Poster Sessions

Hall B-F, Colorado Convention Center

**PR 7 Molecular Targets for Cancer Prevention: New Agent Development**, Poster Section 1, p. 307

**PR 8 Prevention, Screening, and Clinical Biomarker Studies**, Poster Section 2, p. 308

**EP 9 Biomarkers for DNA Alterations and Exposure in Biological Samples**, Poster Section 3, p. 309

**EP 10 Candidate Risk Genes: Melanoma, Hereditary Cancer Syndromes, and Rare and Childhood Cancers**, Poster Section 4, p. 310

**TB 26 Breast Cancer Stem Cells**, Poster Section 5, p. 311



- TB 27 Inhibition of Tumor Progression, Invasion, and Metastasis**, Poster Section 6, p. 312
- TB 28 Stem Cells and Tumorigenesis**, Poster Section 7, p. 313
- TB 29 Stem Cells: Biology and Potential Therapeutic Roles**, Poster Section 8, p. 314
- TB 30 Stromal Influence on Angiogenesis**, Poster Section 9, p. 315
- TB 31 Targets and Therapeutics in Pediatric Cancer 1**, Poster Section 10, p. 316
- TB 32 Tools for Discovery**, Poster Section 11, p. 317
- IM 5 Immunotoxins, Immunoconjugates, and Antibody Combinations**, Poster Section 12, p. 318
- CB 34 Bcl-2 Family**, Poster Section 16, p. 319
- CB 35 Cancer Systems Biology**, Poster Section 17, p. 320
- CB 36 Cell Cycle 3**, Poster Section 18, p. 321
- CB 37 Cloning and Functional Analysis of Cancer Genes**, Poster Section 19, p. 322
- CB 38 Epigenetic Changes as Molecular Markers of Cancer 2**, Poster Section 20, p. 323
- CB 39 Membrane Kinases, Phosphatases, and Signaling in Cancer Biology**, Poster Section 21, p. 324
- CB 40 Metabolism**, Poster Section 22, p. 325
- CB 41 Nuclear Oncoproteins and Tumor Suppressors**, Poster Section 23, p. 326
- CB 42 Senescence and Telomeres**, Poster Section 24, p. 327
- CB 43 Tissue Context Regulates Signaling to Modulate Cancer Progression and Treatment Response**, Colorado Convention Center, p. 328
- CH 7 Chemical Aspects of Carcinogenesis**, Poster Section 28, p. 329
- CH 8 Proteomics and Biomarker Discovery 1**, Poster Section 29, p. 330
- CL 11 Clinical Trials 1**, Poster Section 30, p. 331
- CL 12 Early Clinical Trials**, Poster Section 31, p. 332
- CL 13 Translational Radiation Biology**, Poster Section 32, p. 333
- ET 21 Conjugates and Other Targeted Approaches**, Poster Section 33, p. 334
- ET 22 Drug Delivery Systems**, Poster Section 34, p. 335
- ET 23 Kinase Inhibitors 2**, Poster Section 35, p. 336
- ET 24 Kinase Inhibitors 3**, Poster Section 36, p. 337
- ET 25 NF- $\kappa$ B, Oxidative Stress, and Other Pathways in Cellular Drug Responses**, Poster Section 37, p. 338
- ET 26 Vector Systems and Targeting Strategies**, Poster Section 38, p. 339

## 8:00 AM-12:00 PM Late-Breaking Poster Sessions

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 3**, Poster Section 15, p. 340

**Late-Breaking Research: Experimental and Molecular Therapeutics 2**, Poster Section 26, p. 340

**Late-Breaking Research: Immunology**, Poster Section 13, p. 340

## 8:30 AM-10:00 AM NCI/NIH-Sponsored Session

**Glycomics for Detection of Cancer and Cancer Risk**, Room 607, Colorado Convention Center, p. 340

## 8:30 AM-10:00 AM Forums

**Cancer Vaccines: Do They Work?** Drew M. Pardoll, Moderator, Korbel 2-3, Colorado Convention Center, p. 341

**Role of Free Radicals such as Reactive Oxygen Species (ROS) and Reactive Nitrogen Species (RNS) in Cancer Cell Signaling and Genomic Instability**, Tomasz Skórski, Moderator, Wells Fargo 1, Colorado Convention Center, p. 341

**Targeting EGFR in Lung Cancer**, David H. Johnson, Moderator, Korbel 1, Colorado Convention Center, p. 341

**Therapeutic Targets and Breast Cancer Stem Cells**, Max S. Wicha, Moderator, Korbel 4, Colorado Convention Center, p. 341

# Tuesday, April 21

## 9:00 AM-10:00 AM Lecture

**Fourteenth Annual AACR Joseph H. Burchenal Memorial Award for Clinical Research Lecture**, William Marston Linehan, Wells Fargo 2, Colorado Convention Center, p. 342

## 9:30 AM-10:00 AM Lecture

**Sixth Annual AACR Gertrude B. Elion Award Lecture**, Davide Ruggero, Room 502-504, Colorado Convention Center, p. 343

## 10:00 AM-11:30 AM NCI/NIH-Sponsored Session

**NCI Early Detection Research Network: Investment in Biomarker Research**, Sudhir Srivastava, Moderator, Room 607, Colorado Convention Center, p. 344

## 10:00 AM-12:00 PM Symposia

**Autophagy, Metabolic Stress, and Therapeutic Response**, Eileen P. White, Chairperson, Korbel 2-3, Colorado Convention Center, p. 345

**Cancer Therapeutics and Nanotechnology**, David A. Cheresh, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 345

**Inflammation and Cancer: Mechanisms Regulating Pro-tumor Immunity**, Lisa M. Coussens, Chairperson, Korbel 1, Colorado Convention Center, p. 346

**K-ras: 40 Years from Discovery to Clinical Application**, Karen Cichowski, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 346

**Minorities in Cancer Research (MICR) Symposium: Epigenetic Response to Stress in Determining Health Disparities**, Francis Ali-Osman and Timothy R. Rebbeck, Co-Chairpersons, Room 702-706, Colorado Convention Center, p. 347

**New Approaches to Risk Prediction**, Margaret R. Spitz, Chairperson, Four Seasons 4, Colorado Convention Center, p. 347

**New Kinase Targets in Cancer**, Tony Hunter, Chairperson, Korbel 4, Colorado Convention Center, p. 348

**Targeted Agents Combined with Radiation**, Theodore S. Lawrence, Chairperson, Four Seasons 1, Colorado Convention Center, p. 348

## 10:00 AM-1:30 PM Minisymposia

**CB 44 Abnormal Gene Expression and Function in Tumorigenesis and Cancer Progression**, Douglas D. Boyd and Peng Lee, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 349

**CB 45 Cellular Context Regulates Signaling in Cancer Progression and Treatment**, Bryan E. Welm and Senthil K. Muthuswamy, Co-Chairpersons, Room 708-712, Colorado Convention Center, p. 349

**CB 46 Tumor Suppressors 2**, Rod Bremner and David E. Cobrinik, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 350

**CL 14 Biomarkers for Diagnosis, Prognosis, and Therapy Response Assessment**, Manuel Hidalgo and Fred Hirsch, Co-Chairpersons, Room 301-303, Colorado Convention Center, p. 350

**EN 3 Hormones and Cancer 1**, James A. Fagin and Matthew D. Ringel, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 351

**ET 27 Mechanisms of Drugs Targeting Cell Cycle Controls**, Zahid H. Siddik and Antonio T. Fojo, Co-Chairpersons, Room 505-507, Colorado Convention Center, p. 351

**ET 28 Novel Mechanisms of Drug Resistance**, Stephen B. Howell and Jeffrey A. Moscow, Co-Chairpersons, Room 705-711, Colorado Convention Center, p. 352

**TB 33 Mechanisms of Tumor Progression, Invasion, and Metastasis**, Mary J. Hendrix and Raghu Kalluri, Co-Chairpersons, Room 601-605, Colorado Convention Center, p. 352

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**11:30 AM-1:00 PM Science Policy Forum**

**Impact of the New Administration's Priorities on Cancer Research**, William S. Dalton, Chairperson, Room 607, Colorado Convention Center, p. 353

**12:00 PM-1:00 PM Lecture**

**Thirty-third Annual AACR Richard and Hinda Rosenthal Memorial Award Lecture**, Todd R. Golub, Wells Fargo 2, Colorado Convention Center, p. 354

**1:00 PM-2:30 PM Forums**

**A New Paradigm for Understanding Excess Cancer Risk in Underserved and Minority Populations: The Centers for Population Health and Health Disparities Experience**, Electra D. Paskett, Moderator, Korbel 4, Colorado Convention Center, p. 355

**Exploiting the Hypoxic Tumor Microenvironment for Therapeutics**, Giovanni Melillo, Moderator, Wells Fargo 1, Colorado Convention Center, p. 355

**Prostate Cancer: Latent versus Clinically Significant Disease: Does Every Cancer Need Intervention?** Georg Bartsch, Moderator, Korbel 1, Colorado Convention Center, p. 356

**Targeting the RB Pathway in Cancer Therapy**, Jean Y. J. Wang, Moderator, Korbel 2-3, Colorado Convention Center, p. 356

**1:00 PM-3:00 PM New Concepts in Organ Site Research**

**Human Papillomavirus and Head and Neck Cancer**, Christine H. Chung and Maura L. Gillison, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 357

**Inflammatory Breast Cancer: A Global Perspective of Translation from the Laboratory to the Clinic**, Sofia D. Merajver, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 358

**New Biological Insights Are Changing the Way We Treat Myeloma**, Kenneth C. Anderson and John D. Shaughnessy, Co-Chairpersons, Room 702-706, Colorado Convention Center, p. 359

**Pancreatic Cancer Genomics: Prospects for Prediction and Therapy**, Thomas J. Hudson and Gloria M. Petersen, Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 359

**Recent Advances in Hepatocellular Cancer: From Molecular Profiling to Therapeutics**, Tushar Patel and Tanius Bekaii-Saab, Co-Chairpersons, Room 201-203, Colorado Convention Center, p. 360

**1:00 PM-5:00 PM Poster Sessions**

Hall B-F, Colorado Convention Center

- PR 9 Biomarkers and Molecular Markers in Prevention**, Poster Section 1, p. 361
- EP 11 Candidate Genes and Risk of Prostate, Women's, and Tobacco-Related Cancers**, Poster Section 2, p. 362
- TB 34 Mechanisms of DNA Damage and Repair 1**, Poster Section 3, p. 363
- TB 35 Mechanisms of DNA Damage and Repair 2**, Poster Section 4, p. 364
- TB 36 Molecular Imaging of Cancer Biology and Therapeutic Response**, Poster Section 5, p. 365
- TB 37 Regulation of Angiogenesis**, Poster Section 6, p. 366
- TB 38 Targets and Therapeutics in Pediatric Cancer 2**, Poster Section 7, p. 367
- TB 39 VEGF and VEGF Receptors**, Poster Section 8, p. 368
- CG 6 Molecular Carcinogenesis and DNA Damage**, Poster Section 9, p. 369
- EN 4 Hormones and Cancer 2**, Poster Section 10, p. 370
- IM 6 Tumor Immunology and Immune Manipulation 1**, Poster Section 11, p. 371
- IM 7 Tumor Immunology and Immune Manipulation 2**, Poster Section 12, p. 372
- CB 47 Epidermal Growth Factor Receptors and Signaling in Cancer**, Poster Section 16, p. 373
- CB 48 Gene Expression and Promoter Analysis**, Poster Section 17, p. 374

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- CB 49** Gene Functions in Cancer, Poster Section 18, p. 375
- CB 50** Growth Factor Receptors and Signaling and Cancer Progression, Poster Section 19, p. 376
- CB 51** Imaging Technologies and Applications, Poster Section 20, p. 377
- CB 52** Molecular Cytogenetics and Mutation Detection, Poster Section 21, p. 378
- CB 53** Oncogenes and Tumor Suppressors, Poster Section 22, p. 379
- CB 54** Ras and Growth Factor Signaling in Cancer, Poster Section 23, p. 380
- CB 55** Signaling Pathways, Poster Section 24, p. 381
- CB 56** Tumor Suppressors 3, Poster Section 25, p. 382
- CH 9** Imaging Agents and Radiotherapeutics, Poster Section 27, p. 383
- CH 10** Proteomics and Biomarker Discovery 2, Poster Section 28, p. 384
- CL 15** Clinical Trials 2, Poster Section 29, p. 385
- ET 29** Agents Causing DNA Damage or Proteasome Inhibition, Poster Section 31, p. 386
- ET 30** Agents Targeting Histone Deacetylases and DNA Methyltransferase, Poster Section 32, p. 387
- ET 31** Combination Chemotherapy 2, Poster Section 33, p. 388
- ET 32** Drug Mechanisms Involving Cell Cycle, MAP Kinase, and Novel Targets, Poster Section 34, p. 389
- ET 33** Gene and Vector-based Therapy, Poster Section 35, p. 390
- ET 34** New Targets, Poster Section 36, p. 391
- ET 35** Novel Agents 3, Poster Section 37, p. 392
- ET 36** Resistance to Kinase Inhibitors and Hormonal Agents, Poster Section 38, p. 393

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### 1:00 PM-5:00 PM Late-Breaking Poster Sessions

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Clinical Research 2**, Poster Section 26, p. 360

**Late-Breaking Research: Epidemiology and Prevention**, Poster Section 14, p. 360

### 1:15 PM-2:15 PM Lecture

**Third Annual AACR Princess Takamatsu Lecture**, Curtis C. Harris, Wells Fargo 2, Colorado Convention Center, p. 394

### 1:30 PM-3:30 PM NCI/NIH-Sponsored Sessions

**NIH Grant Process and Opportunities for Cancer Research Funding at NIH**, Phuong Kim Pham, Chairperson, Room 607, Colorado Convention Center, p. 395

**Translating Knowledge from The Cancer Genome Atlas (TCGA) to Understand and Control Cancer**, Room 601-605, Colorado Convention Center, p. 395

### 2:00 PM-5:30 PM Minisymposia

**CH 11** Proteomics and Biomarker Discovery 3, David W. Speicher and Oliver J. Semmes, Co-Chairpersons, Room 301-303, Colorado Convention Center, p. 396

**CB 57** DNA Methylation and the Cancer Methylome, Paula M. Vertino and Toshikazu Ushijima, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 397

**CB 58** Tissue Context Regulates Signaling in Development and Cancer, Michael T. Lewis and Heide L. Ford, Co-Chairpersons, Room 502-504, Colorado Convention Center, p. 397

**ET 37** Kinase Inhibitors 4, Janet E. Dancey and Geoffrey I. Shapiro, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 398

**PR 10** Biological Mechanisms and Molecular Markers of Prevention, Fadlo R. Khuri and Ernest T. Hawk, Co-Chairpersons, Room 705-711, Colorado Convention Center, p. 399

**TB 40** **Cancer Stem Cell Approaches for Identification and Targeting**, Max S. Wicha and Michael F. Clarke, Co-Chairpersons, Room 205-207, Colorado Convention Center, p. 399

**TB 41** **Molecular Pathophysiology of the Metastasis Process**, Fernando Vidal-Vanaclocha and Patricia S. Steeg, Co-Chairpersons, Room 505-507, Colorado Convention Center, p. 400

**2:15 PM-3:15 PM** **Lecture**

**Eighteenth Annual AACR-American Cancer Society Award Lecture for Research Excellence in Cancer Epidemiology and Prevention**, John D. Potter, Wells Fargo 2, Colorado Convention Center, p. 401

**3:15 PM-5:15 PM** **Symposia**

**Molecular Imaging of Cancer Pathways**, David Piwnica-Worms, Chairperson, Korbel 1, Colorado Convention Center, p. 402

**Natural Products and Molecular Targeted Therapeutics**, Laurence H. Hurley and Beverly A. Teicher, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 402

**Pathways to Lung Cancer: Untangling the Roles of Genes and Tobacco**, Ann G. Schwartz, Chairperson, Four Seasons 1, Colorado Convention Center, p. 403

**PI3K: Oncoprotein and Drug Targets**, Peter K. Vogt, Chairperson, Wells Fargo 1, Colorado Convention Center, p. 403

**Targeting the Hypoxia Response in Tumors: Metabolic Implications**, Mark W. Dewhirst, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 404

**The Stanley J. Korsmeyer Memorial Symposium: Controlling Cancer Programmed Cell Death**, Anthony G. Letai, Chairperson, Korbel 2-3, Colorado Convention Center, p. 405

**The Successes and Challenges of Cell-based Immunotherapies**, Elizabeth M. Jaffee, Chairperson, Korbel 4, Colorado Convention Center, p. 405

**3:30 PM-5:30 PM** **NCI/NIH-Sponsored Sessions**

**Technology Transfer: Financial and Career Opportunities for Cancer Researchers**, Phuong Kim Pham, Chairperson, Room 607, Colorado Convention Center, p. 406

**Using Cancer Genome Data Sets in Next Generation Cancer Research: Accessing and Analyzing TCGA and Other Large Scale Genomic Data**, Room 601-605, Colorado Convention Center, p. 406

**5:30 PM-6:30 PM** **Meet-the-Expert Sessions**

**Breast Cancer Treatment by Molecular Insights: How Diverse Can We Make It?** Laura J. Van't Veer, Four Seasons 4, Colorado Convention Center, p. 407

**Inflammation and Cancer**, Mariano Barbacid, Four Seasons 1, Colorado Convention Center, p. 407

**Normal and Neoplastic Stem Cells**, Irving L. Weissman, Four Seasons 2-3, Colorado Convention Center, p. 407

**5:30 PM-7:00 PM** **Special Session**

**Cancer Immunology Working Group Evening Scientific Session: Immune Regulatory Antibodies for Cancer Therapy**, Julie Y. Djeu, Chairperson, Room 702-706, Colorado Convention Center, p. 408

**5:30 PM-7:00 PM** **Professional Advancement Session**

**A Conversation on Chemistry in Cancer Research**, Granite A-C, Hyatt Regency Denver, p. 408

**6:00-7:30 PM** **Town Meeting**

**Molecular Epidemiology Working Group Town Meeting and Reception**, Paolo Boffetta, Chairperson, Capitol Ballroom 5-7, Hyatt Regency Denver, p. 409

# Wednesday, April 22

## 7:00 AM-8:00 AM Meet-the-Expert Sessions

**Cancer Epigenomics in Chronic Lymphocytic Leukemia**, Christoph Plass, Room 702-706, Colorado Convention Center, p. 411

**Cross-Talk of Innate Resistance and Immunity**, Giorgio Trinchieri, Room 402-404, Colorado Convention Center, p. 411

**Genomic and Proteomic Changes Induced by the Tumor Microenvironment that Regulate Metastasis**, Amato J. Giaccia, Room 301-303, Colorado Convention Center, p. 411

**Mouse Models for Mesothelioma and Lung Cancer**, Anton J. M. Berns, Room 705-711, Colorado Convention Center, p. 411

**New Synthetic Triterpenoids and Rexinoids: Applications and Mechanisms for Cancer Prevention and Treatment**, Michael B. Sporn, Room 708-712, Colorado Convention Center, p. 412

**Selective and Mechanistic Factors That Contribute to Recurrent Oncogenic Translocations**, Frederick W. Alt, Room 201-203, Colorado Convention Center, p. 412

**Targeting DNA Repair Pathways in Cancer Therapy**, Alan D. D'Andrea, Room 405-407, Colorado Convention Center, p. 413

**Targeting the ras Pathway**, Frank McCormick, Room 502-504, Colorado Convention Center, p. 413

**The Origins of Breast Cancer Heterogeneity: The Role of the Cellular Hierarchy and Genetics, and the Microenvironment**, Charlotte Kuperwasser, Room 505-507, Colorado Convention Center, p. 413

## 8:00 AM-9:00 AM Lecture

**Twenty-ninth Annual AACR Award for Outstanding Achievement in Cancer Research Lecture**, Victor E. Velculescu, Wells Fargo 1, Colorado Convention Center, p. 414

## 8:00 AM-9:30 AM Forums

**Cancer Stem Cells: Advances and Challenges**, Peter B. Dirks, Moderator, Korbel 2-3, Colorado Convention Center, p. 415

**Cancer Systems Biology: Fact or Fiction?**, Joe W. Gray, Moderator, Korbel 4, Colorado Convention Center, p. 415

**New Views on Mammographic Density**, Celine M. Vachon, Moderator, Korbel 1, Colorado Convention Center, p. 415

## 8:00 AM-10:00 AM New Concepts in Organ Site Research

**Malignant Progression in Myelodysplastic Syndrome: Back to the Bench**, Alan F. List and Benjamin Ebert, Co-Chairpersons, Four Seasons 1, Colorado Convention Center, p. 416

**Molecular and Cellular Determinants of Colorectal Cancer Metastasis**, Lee M. Ellis and Shahin Rafii, Co-Chairpersons, Four Seasons 2-3, Colorado Convention Center, p. 416

**Non-Melanoma Skin Cancer: Thinking Outside of the Box**, Ervin H. Epstein, Jr., and Tatiana M. Oberyszyn, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 417

## 8:00 AM-10:00 AM AACR/International Liver Cancer Association Session

**Pathogenesis and Treatment of Human Liver Cancer**, Nelson Fausto and Snorri S. Thorgeirsson, Co-Chairpersons, Room 405-407, Colorado Convention Center, p. 418

## 8:00 AM-12:00 PM Poster Sessions

Hall B-F, Colorado Convention Center

- PR 11 Behavioral and Social Science in Cancer Prevention and Research**, Poster Section 1, p. 419
- EP 12 Factors Affecting Cancer Survivorship**, Poster Section 2, p. 420
- EP 13 Medications, Hormones, Reproductive Factors, and Other Exposures**, Poster Section 3, p. 421
- TB 42 Cancer Stem Cells: Isolation and Characterization 2**, Poster Section 4, p. 422
- TB 43 Cooperating Oncogenic Events**, Poster Section 5, p. 423
- TB 44 Endogenous Metastasis Promoters and Inhibitors**, Poster Section 6, p. 424
- TB 45 Expression Profiling of Tumor Progression and Metastasis**, Poster Section 7, p. 425
- TB 46 Imaging the Cancer Metastasis Process**, Poster Section 8, p. 426
- TB 47 Novel Targets and Agents for Imaging Cancer**, Poster Section 9, p. 427
- CG 7 Hormones, Signal Transduction, and Cancer**, Poster Section 11, p. 428
- IM 8 Cytokines, Immune Modulation, and Immune Monitoring**, Poster Section 12, p. 429
- CB 59 Cell Death and Chemotherapy**, Poster Section 16, p. 430
- CB 60 Death Receptors**, Poster Section 17, p. 431
- CB 61 DNA Methylation 1**, Poster Section 18, p. 432
- CB 62 DNA Methylation 2**, Poster Section 19, p. 433
- CB 63 Genomic Technologies and Applications**, Poster Section 20, p. 434
- CB 64 Intracellular Signaling in Cancer Progression**, Poster Section 21, p. 435
- CB 65 New Approaches and Technologies to Monitor Signaling in Cancer**, Poster Section 22, p. 436
- CB 66 Nuclear Receptors and Signaling in Cancer Progression and Therapy**, Poster Section 23, p. 437
- CB 67 Targeting Gene Expression in Cancer**, Poster Section 24, p. 438
- CB 68 Tumor Suppressors 4**, Poster Section 25, p. 439
- CH 12 Chemistry in Cancer: The Role of Protein and Nucleic Acid Interactions in Ligand Design**, Poster Section 28, p. 440
- CH 13 Molecular Pathway-Directed Tools and Agents for the Detection or Treatment of Cancer**, Poster Section 29, p. 441
- CL 16 Novel Technologies in Cancer Biomarkers**, Poster Section 30, p. 442
- CL 17 Pharmacodynamic and Blood-Based Biomarkers**, Poster Section 31, p. 443
- CL 18 Pharmacokinetics and Pharmacodynamics of Early Clinical Trials**, Poster Section 32, p. 444
- ET 38 Antibody Technologies**, Poster Section 33, p. 445
- ET 39 Cell Death Pathways and Modulation of DNA Repair**, Poster Section 34, p. 446
- ET 40 Miscellaneous and Novel Mechanisms of Drug Resistance**, Poster Section 35, p. 447
- ET 41 Modulation of DNA Repair and Molecular Markers**, Poster Section 36, p. 448
- ET 42 Novel Agents 4**, Poster Section 37, p. 449
- ET 43 Preclinical Radiotherapeutics**, Poster Section 38, p. 450

### 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

# Wednesday, April 22

## 8:00 AM-12:00 PM Late-Breaking Poster Sessions

Hall B-F, Colorado Convention Center

**Late-Breaking Research: Cellular and Molecular Biology 4**, Poster Section 15, p. 451

**Late-Breaking Research: Tumor Biology 2**, Poster Section 14, p. 451

## 8:30 AM-10:30 AM DOD/CDMRP-Sponsored Session

**Department of Defense Funding Opportunities for Cancer Research**, Room 607, Colorado Convention Center, p. 451

## 8:30 AM-12:00 PM Minisymposia

**CB 69 Functional Analysis of Cancer Genes and Molecular Markers**, Garrett M. Brodeur and Paul S. Meltzer, Co-Chairpersons, Room 705-711, Colorado Convention Center, p. 452

**CL 19 Clinical Trials 3**, Miguel A. Villalona-Calero, Chairperson, Room 702-706, Colorado Convention Center, p. 453

**ET 44 Histones, Tubulin, and Proteasome Targets**, James P. Thomas and Kapil N. Bhalla, Co-Chairpersons, Room 505-507, Colorado Convention Center, p. 454

**ET 45 Progress and Insights in Combination Chemotherapy**, Eric H. Rubin and Ching-Shih Chen, Co-Chairpersons, Room 301-303, Colorado Convention Center, p. 454

**IM 9 Novel Immunotherapy Targeting Molecular Control of Immune Activation**, F. Stephen Hodi and Padmanee Sharma, Chairperson, Room 502-504, Colorado Convention Center, p. 455

**TB 48 Alterations in the Tumor Microenvironment: Effects on Tumor Progression and Metastasis**, Sheila A. Stewart and Michael C. Ostrowski, Co-Chairpersons, Room 402-404, Colorado Convention Center, p. 455

**TB 49 Translation of Tumor Biology to New Therapy Approaches in Pediatric Cancer**, John M. Maris and Victor M. Santana, Co-Chairpersons, Room 708-712, Colorado Convention Center, p. 456

## 10:00 AM-12:00 PM Symposia

**Apoptosis-based Strategies for Cancer Therapy**, John C. Reed, Chairperson, Korbel 2-3, Colorado Convention Center, p. 457

**Biomarkers in Epidemiology: Risk and Prognosis**, Paolo Boffetta and Cornelia M. Ulrich, Co-Chairpersons, Four Seasons 4, Colorado Convention Center, p. 457

**Infectious Etiologies: The Two-Sided Coin in Cancer**, James G. Fox, Chairperson, Four Seasons 1, Colorado Convention Center, p. 458

**Non-coding RNAs**, Isidore Rigoutsos, Chairperson, Korbel 4, Colorado Convention Center, p. 459

**Telomere Maintenance and Cancer**, Vicki Lundblad, Chairperson, Four Seasons 2-3, Colorado Convention Center, p. 459

**The Chemical Biology of Mutagenesis and DNA Repair**, John M. Essigmann, Chairperson, Korbel 1, Colorado Convention Center, p. 460

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