Saturday, April 2

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

Adipose Cells, Progenitors, and Cancer: White Adipose Tissue Revisited, Francesco Bertolini, Chairperson, Room W315, Orange County Convention Center, p. 69

Challenges and Promises of Molecular Pathology in Epidemiological Studies, Montserrat Garcia-Closas, Chairperson, Room W209, Orange County Convention Center, p. 69

Clinical Use of Circulating Biomarkers: The Good, the Bad, and the Ugly, Emile E. E. Voest, Chairperson, Room W311 A-D, Orange County Convention Center, p. 70

Epigenetic Regulation and Cancer, Jean-Pierre J. Issa, Chairperson, West Hall F5, Orange County Convention Center, p. 70

From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 1: Leveraging Chemical Genetic Screening Approaches in Oncology Drug Discovery, Matt V. Lorenzi, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 71

Lymphangiogenesis and Metastasis, Kari K. Alitalo, Chairperson, Room W330, Orange County Convention Center, p. 71

The Microenvironment and Drug Resistance, Yves A. DeClerck, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 72

Promoting Mitotic Cell Death in Tumors, René H. Medema, Chairperson, Room W311 E-H, Orange County Convention Center, p. 72

Training the Next Generation of Cancer Nanotechnology Researchers, Piotr Grodzinski, Chairperson, Room W230 A-C, Orange County Convention Center, p. 73

Tumor Immunology for the Non-Immunologist, Thomas F. Gajewski, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 74

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

Cell-based Imaging in Animal Models, Erik Sahai, Chairperson, Room W224 A/B/E/F, Orange County Convention Center, p. 75

Harvesting the Yield from the TCGA, Douglas A. Levine, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 75

Mass Spectrometry in Cancer Research, Steven R. Tannenbaum, Chairperson, Room W314, Orange County Convention Center, p. 76

Methods for Identification and Analysis of Normal Stem Cells and Cancer Cells, Michael F. Clarke, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 77

Population Stratification and Use of Genetic Ancestry to Assess Risk for Cancer, Jill S. Barnholtz-Sloan, Chairperson, Room W414 C/D, Orange County Convention Center, p. 76

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

Cancer Immunology for the Non-Immunologist—Tutorial, Thomas F. Gajewski, Chairperson, Room W222, Orange County Convention Center, p. 77

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

Can Nutritional Supplements Lower Cancer Risk? What is the Evidence? Maria E. Martinez, Chairperson, Room W314, Orange County Convention Center, p. 83

Designing Clinical Trials to Evaluate Actionable Mutations and the Druggable Genome, Lillian L. Siu, Chairperson, Room W209, Orange County Convention Center, p. 78

Dormancy of Disseminated Tumor Cells and Metastatic Growth: Are Tumor Stem Cells the Culprit? Julio A. Aguirre-Ghiso, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 79

EMT/MET in Cancer Stem Cells and Tumor Progression, Jeffrey M. Rosen, Chairperson, West Hall F5, Orange County Convention Center, p. 79

The Exposome: News and Novel Tools from the World of Epidemiology, Cornelia M. Ulrich and Martyn T. Smith, Co-Chairpersons, Room W315, Orange County Convention Center, p. 82

From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 2: Optimizing Drug Discovery: Insights on an Important Process, Michael J. Luzzio, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 80

microRNAs: Major Players in Cancer Initiation, Progression, and Dissemination, George A. Calin, Chairperson, Room W330, Orange County Convention Center, p. 81

Microvesicles in Cancer Progression, Janusz W. Rak, Chairperson, Room W311 E-H, Orange County Convention Center, p. 81

Molecular Mechanisms Regulating Tumor Immune Escape: Journey from Bench to Bedside, Dmitry I. Gabrilovich, Chairperson, Room W311 A-D, Orange County Convention Center, p. 82
Saturday, April 2

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

**Approaches to High-Throughput Functional Assessment**, Markus Warmuth, Chairperson, Room W414 C/D, Orange County Convention Center, p. 84

**Cancer Proteomics: Clinical Applications for Personalized Therapy and Early Detection**, Emanuel F. Petricoin, Chairperson, Room W230 A-C, Orange County Convention Center, p. 85

**Practical Nanotechnologies**, Mauro Ferrari, Chairperson, Room W224 A/B/E/F, Orange County Convention Center, p. 85

11:00 a.m.-5:00 p.m.  Professional Advancement Series Session

**Sixth Annual Undergraduate Student Caucus and Poster Competition**, Stewart Sell, Chairperson, Windermere Y&Z, The Peabody Hotel, p. 86

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

**14th Annual Grant Writing Workshop**, Orlando L&M, The Peabody Hotel, p. 87

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

**Autophagy and Cell Death**, Robert S. DiPaola, Chairperson, West Hall F5, Orange County Convention Center, p. 88

**Clinical Biomarkers for VEGF Inhibition: Bouncing Between Beds and Benches**, Michael L. Maitland, Chairperson, Room W311 E-H, Orange County Convention Center, p. 88

**The Emerging Contributions of Exosomes during Cancer Invasion and Metastasis**, David C. Lyden, Chairperson, Room W330, Orange County Convention Center, p. 89

**The Emerging Role of Nanotechnology in Cancer Therapy**, Vincent L. Cryns, Chairperson, Room W311 A-D, Orange County Convention Center, p. 89

**From Chemistry to the Clinic: Pathways for Drug Discovery and Development, Part 3: Chemical Development: Translating a Potent Agent into a Registered Product**, Stephen A. Munk, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 90

**Imaging Response to Therapy**, Carolyn J. Anderson, Chairperson, Room W314, Orange County Convention Center, p. 90

**Metaplastic Breast Cancer**, Vaughn V. Smider, Chairperson, Room W315, Orange County Convention Center, p. 95

**The Molecular Evolution of Cancer Stem Cells**, Catriona H. Jamieson, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 91

**Noncoding RNAs Beyond microRNAs: New Rising Stars in the Genomic Galaxy**, Frank Slack, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 91

**Promising Molecularly Targeted Combinations: From Mouse Models to Clinical Trials**, Carlos L. Arteaga, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 92

**The Role of Innate Immune Receptors in Cancer**, Julie Y. Djeu, Chairperson, Room W224 A/B/E/F, Orange County Convention Center, p. 92

**Systems Biology at the Clinic**, Neil L. Spector, Chairperson, Room W230 A-C, Orange County Convention Center, p. 93

**Understanding the Tumor Genome through Next-Generation Sequencing**, Matthew L. Meyerson, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 93

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

**Design and Analysis of Cancer Prognosis Studies: Interface of Molecular Epidemiology and Clinical Research**, James R. Cerhan, Chairperson, Room W209, Orange County Convention Center, p. 94

**Integrating Clinical and Experimental Data into Mathematical Models to Understand and Exploit Mechanisms of Cancer Growth**, Alexander R. A. Anderson, Chairperson, Room W414 C/D, Orange County Convention Center, p. 94

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

**How to Get Your Research Published**, Michael A. Caligiuri, Chairperson, Windermere W-X, The Peabody Hotel, p. 96

1:00-4:00 p.m.  Professional Advancement Series Session

**Women in Cancer Research: Physicians and Scientists as Leaders in the Fight Against Cancer**, Lydia Armstrong and Roya Khosravi-Far, Co-Chairpersons, Plaza H, The Peabody Hotel, p. 96
Saturday, April 2

3:15-4:15 p.m. Meet-the-Expert Sessions

Immunogenic Cancer Cell Death for Optimal Chemotherapy, Guido Kroemer, West Hall F1/F2, Orange County Convention Center, p. 97

Li-Fraumeni Syndrome: Cancer Risk and Risk Modifiers, Louise C. Strong, Room W311 A-D, Orange County Convention Center, p. 97

Preclinical Targeted Drug Development in an Academic Setting, Suzanne A. Eccles, Room W311 E-H, Orange County Convention Center, p. 98

The Cancer Epigenome: Origins and Translational Implications, Stephen B. Baylin, West Hall F5, Orange County Convention Center, p. 98

3:15-5:15 p.m. Educational Session

The Cancer Stem Cell Niche, Jeremy N. Rich, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 99

3:15-5:15 p.m. Methods Workshops

Animal Models of Metastasis, Jos Jonkers, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 100

Statistical Challenges of Analyses of Genome-wide Data, Nilanjan Chatterjee, Chairperson, Room W230 A-C, Orange County Convention Center, p. 100

5:30-6:30 p.m. Award Lectures

Fourteenth Annual AACR-Women in Cancer Research Charlotte Friend Memorial Lectureship, Carol L. Prives, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 104

Seventh Annual AACR-Irving Weinstein Foundation Distinguished Lectureship, Helen M. Blau, Room W320 (Chapin Theater), Orange County Convention Center, p. 105

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


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

Aspects of the Tumor-Immune Microenvironment That Regulate Cancer Development, Lisa M. Coussens, West Hall F5, Orange County Convention Center, p. 101

Biomarkers in Early Clinical Trials, Patricia Mucci LoRusso and Joseph P. Eder, Room W311 E-H, Orange County Convention Center, p. 101

Breast Cancer Heterogeneity: A Challenge for Molecular Classification, Anne-Lise Barresen-Dale, Room W311 A-D, Orange County Convention Center, p. 101

Molecular Diversity of Human Breast Cancer: Biologic and Therapeutic Implications, Dennis J. Slamon, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 102

Regulation of Growth by the mTOR Pathway, David M. Sabatini, West Hall F1/F2, Orange County Convention Center, p. 102

Target Validation in K-Ras Induced Tumors: Genetic and Pharmacological Approaches, Mariano Barbacid, Room W330, Orange County Convention Center, p. 103

Use of Natural Products as Chemopreventive Agents: Rationale, Potential Benefits, and Pitfalls, Erik R. Olson, Room W224 A/B/E/F, Orange County Convention Center, p. 103

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 3

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

A Comparative Approach to Improve Our Understanding of Metastasis Biology and Therapy, Chand Khanna, Room W230 A-C, Orange County Convention Center, p. 109

Challenges and Opportunities in Academic Cancer Research, Raymond N. DuBois, Room W224 C/D/G/H, Orange County Convention Center, p. 109

Consequences of Aneuploidy, Angelika Amon, Room W311 A-D, Orange County Convention Center, p. 109

Cure of HER2-Positive Breast Cancer without Chemotherapy at the Doorstep, Martine J. Piccart-Gebhart, Room W209, Orange County Convention Center, p. 110

Delivery of Molecular and Nano Medicine in Tumors, Rakesh K. Jain, West Hall F1/F2, Orange County Convention Center, p. 110

Consequences of Aneuploidy, Angelika Amon, Room W311 A-D, Orange County Convention Center, p. 109

Cure of HER2-Positive Breast Cancer without Chemotherapy at the Doorstep, Martine J. Piccart-Gebhart, Room W209, Orange County Convention Center, p. 110

Delivery of Molecular and Nano Medicine in Tumors, Rakesh K. Jain, West Hall F1/F2, Orange County Convention Center, p. 110

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

NIH Grants: Changes in Review and Funding Opportunities, Suresh Mohla, Chairperson, Room W208, Orange County Convention Center, p. 112

8:15-9:00 a.m.  Award Presentations

Eighth Annual AACR Award for Lifetime Achievement in Cancer Research, Susan Band Horwitz, West Hall D, Orange County Convention Center, p. 114

Fifth Annual AACR Team Science Award, Seattle HPV Research Team, West Hall D, Orange County Convention Center, p. 115

Fifth Annual AACR Margaret Foti Award for Leadership and Extraordinary Achievements in Cancer Research, Arthur D. Levinson, West Hall D, Orange County Convention Center, p. 116

9:00 a.m.-12:00 p.m.  Opening Plenary Session

The Future of Cancer Research: Challenges and Opportunities, Joan S. Brugge, Chairperson, West Hall D, Orange County Convention Center, p. 122

12:30-1:00 p.m.  Award Lecture

Eighth Annual AACR Gertrude B. Elion Cancer Research Award Lecture, Yali Dou, Room W230 A-C, Orange County Convention Center, p. 124

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

NIH Funding and Training Opportunities in Cancer Research, Jonathan S. Wiest, Chairperson, Room W208, Orange County Convention Center, p. 125

1:00-2:15 p.m.  Science Policy Session

The Outlook for Cancer Research Funding in the 112th Congress: The Importance of Advocacy, Room W414 A/B, Orange County Convention Center, p. 126

1:00-3:00 p.m.  Drug Development: Special Session

New Drugs on the Horizon 1, Matthew A. Marx and Lori S. Friedman, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 127

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Sunday, April 3

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

Biological and Genetic Mechanisms in Pain, Fatigue, and Treatment-related Cognitive Dysfunction, Jimmie C. Holland, Chairperson, Room W330, Orange County Convention Center, p. 128

Cancer Therapy: Synthetic Lethality and Beyond, Alan Ashworth, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 128

Escape from the Primary Tumor: Mechanisms of Invasion, Mina J. Bissell, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 129

The Hedgehog Signaling Pathway: Biology and Therapeutics, Philip A. Beachy, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 129

Molecular Imaging in Cancer Therapy, Antoni Ribas, Chairperson, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 130

Neuroendocrine Influences on Cancer Progression, Anil K. Sood, Chairperson, West Hall F5, Orange County Convention Center, p. 130

Unfolded Protein Response and Cancer, Amy S. Lee, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 131

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

Advances in Pancreatic Cancer, Diane M. Simeone and Anirban Maitra, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 132

Molecular Insights in Renal Cell Carcinoma, Brian I. Rini and William G. Kaelin, Co-Chairpersons, Room W315, Orange County Convention Center, p. 132

Pediatric Acute Lymphoblastic Leukemia: Genomics, FISH, and Cell Death, Stephen P. Hunger and A. Thomas Look, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 133

Prostate Cancer Immunotherapy: Initial Successes and Next Steps, Padmanee Sharma and Philip W. Kantoff, Co-Chairpersons, Room W224 C/D/G/H, Orange County Convention Center, p. 133

Targeting DNA Repair and Mitosis in Breast and Ovarian Cancers, Judy E. Garber and Ashok R. Venkitaraman, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 134

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

Future Leaders in Cancer Prevention and Epidemiology Research Special Symposium, Room W314, Orange County Convention Center, p. 135

1:00-5:00 p.m.  Late-Breaking Poster Sessions

Late-Breaking Research: Cellular and Molecular Biology 1, Exhibit Hall A4-C, Poster Section 38, p. 134

Late-Breaking Research: Tumor Biology 1, Exhibit Hall A4-C, Poster Section 39, p. 134

1:00-5:00 p.m.  Poster Sessions

CB 1 Bcl-2 Family, Exhibit Hall A4-C, Poster Section 1, p. 136

CB 2 Bioinformatic Applications in Cancer, Exhibit Hall A4-C, Poster Section 2, p. 137

CB 3 Bioinformatic Methods and Databases, Exhibit Hall A4-C, Poster Section 3, p. 138

CB 4 Epigenetic Mechanisms and Cancer Progression, Exhibit Hall A4-C, Poster Section 4, p. 139

CB 5 Epigenetic Mechanisms and Patterns in Carcinogenesis, Exhibit Hall A4-C, Poster Section 5, p. 140

CB 6 microRNAs and Other Noncoding RNAs: Regulation and Function, Exhibit Hall A4-C, Poster Section 6, p. 141

CB 7 microRNAs as Oncogenes and/or Tumor Suppressors, Exhibit Hall A4-C, Poster Section 7, p. 142

CB 8 p53 and Apoptosis Regulation, Exhibit Hall A4-C, Poster Section 8, p. 143

CB 9 p53 and BRCA Tumor Suppressors, Exhibit Hall A4-C, Poster Section 9, p. 144

CB 10 Therapeutic Targeting of Oncogene and Tumor Suppressor Pathways, Exhibit Hall A4-C, Poster Section 10, p. 145

CB 11 Transcriptional Regulation of Tumor Biology, Exhibit Hall A4-C, Poster Section 11, p. 146

CL 1 Biomarkers in Clinical Research, Exhibit Hall A4-C, Poster Section 12, p. 147

CL 2 Clinical Cytogenetics and Molecular Genetics, Exhibit Hall A4-C, Poster Section 13, p. 148
Sunday, April 3

CL 3  Molecular Classification in Clinical Studies, Exhibit Hall A4-C, Poster Section 14, p. 149

EN 1  Clinical Endocrinology, Exhibit Hall A4-C, Poster Section 15, p. 150

CH 1  Nanotechnology and Therapeutics, Exhibit Hall A4-C, Poster Section 17, p. 151

TB 1  Chemokines and Cytokines in Tumor Promotion, Exhibit Hall A4-C, Poster Section 18, p. 152

TB 2  Extracellular Matrix and Integrins, Exhibit Hall A4-C, Poster Section 19, p. 153

TB 3  Inflammatory Cells and Immunity in Tumorigenesis, Exhibit Hall A4-C, Poster Section 20, p. 154

TB 4  Solid Tumor Stem Cells, Exhibit Hall A4-C, Poster Section 21, p. 155

TB 5  Stromal-Epithelial Cell Interactions in Tumorigenesis, Exhibit Hall A4-C, Poster Section 22, p. 156

TB 6  Therapeutic Targets and Responses in the Tumor Microenvironment, Exhibit Hall A4-C, Poster Section 23, p. 157

TB 7  Tumor Microenvironment and Radiation Response, Exhibit Hall A4-C, Poster Section 24, p. 158

ET 1  Biological Indicators of Sensitivity and Response, Exhibit Hall A4-C, Poster Section 25, p. 159

ET 2  Functional Analysis of Oncogenes and Tumor Suppressor Genes, Exhibit Hall A4-C, Poster Section 26, p. 160

ET 3  Kinases as Targets for Therapy, Exhibit Hall A4-C, Poster Section 27, p. 161

ET 4  Novel Antitumor Agents and Approaches, Exhibit Hall A4-C, Poster Section 28, p. 162

ET 5  Regulation of Cancer Drug Resistance, Exhibit Hall A4-C, Poster Section 29, p. 163

ET 6  Resistance to Targeted Therapeutics, Exhibit Hall A4-C, Poster Section 30, p. 164

IM 1  Cancer Vaccines and Novel Adjuvant Approaches, Exhibit Hall A4-C, Poster Section 31, p. 165

IM 2  Regulation of Antitumor Immune Responses, Exhibit Hall A4-C, Poster Section 32, p. 166

PR 1  Models and Novel Targets for Prevention 1, Exhibit Hall A4-C, Poster Section 33, p. 167

PR 2  Models and Novel Targets for Prevention 2, Exhibit Hall A4-C, Poster Section 34, p. 168

EP 1  Epidemiology and Genetics of Melanoma, Lung, Head and Neck Cancers, and Childhood and Brain Tumors, Exhibit Hall A4-C, Poster Section 35, p. 169

EP 2  Tumor Biomarkers, Exhibit Hall A4-C, Poster Section 36, p. 170

2:00-4:00 p.m.  Meet and Greet Sessions

Meet the MICR Council, Maria E. Martinez, Chairperson, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 172

Meet the WICR Council, Ann D. Thor, Chairperson, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 172

2:00-4:00 p.m.  NCI/NIH-Sponsored Session


2:30-5:00 p.m.  AACR Scientist↔Survivor Poster Session

Cancer Advocates Poster Session, Exhibit Hall A4-C, Poster Section 37, p. 171

3:00-4:00 p.m.  Meet the Research Pioneer

Carlos L. Arteaga, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 174

3:15-4:45 p.m.  Special Session

Stand Up To Cancer: Maximizing Innovation Through Translational Research and Team Science, Phillip A. Sharp, Moderator, Room W414 A/B, Orange County Convention Center, p. 175

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

New Drugs on the Horizon 2, Simon Bailey and Nancy K. Pryer, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 177
Sunday, April 3

3:15-5:15 p.m.  Minisymposia

CG 1 Mouse Models of Inflammation-associated Cancers, Mary H. Barcellos-Hoff and Charles G. Drake, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 178

CB 12 Breast Cancer Cell Signaling, Max S. Wicha and Senthil K. Muthuswamy, Co-Chairpersons, West Hall F1/F2, Orange County Convention Center, p. 179

CB 13 Genomic Approaches to Cancer Discovery, Paul S. Meltzer and Samuel Aparicio, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 179

CB 14 Transcription Factors and Chromatin: The Interface between Signal Transduction and Epigenetics, Frank J. Rauscher and Myles A. Brown, Co-Chairpersons, Room W209, Orange County Convention Center, p. 179

EN 2 Steroid Receptors in Cancer, V. C. Jordan and Clodia Osipo, Co-Chairpersons, Room W315, Orange County Convention Center, p. 180

EP 3 Host and Lifestyle Factors in Cancer Risk, Maria Teresa Landi and Jill S. Barnholtz-Sloan, Co-Chairpersons, Room W205, Orange County Convention Center, p. 180

ET 7 Molecular Targets, Ramon E. Parsons and Neal Rosen, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 181

ET 8 Novel Mechanisms of Known Targeted Agents, Mark Basik and Alan Spatz, Co-Chairpersons, Room W330, Orange County Convention Center, p. 181

TB 8 Microenvironmental and Genetic Regulation of Metastasis-associated Processes, Danny R. Welch and Evi S. Lianidou, Co-Chairpersons, Room W224 C/D/G/H, Orange County Convention Center, p. 182

TB 9 Stem Cells in Cancer Biology and Therapy 1, Elizabeth R. Lawlor and Jeremy N. Rich, Co-Chairpersons, West Hall F5, Orange County Convention Center, p. 182

3:15-5:15 p.m.  Symposium: Late-Breaking Research

Late-Breaking Clinical Abstracts Symposium, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 176

4:00-5:30 p.m.  Special Session

Coordination of Translational Cancer Research in Europe, Room W208, Orange County Convention Center, p. 183

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

Sixth Annual AACR-Minorities in Cancer Research Jane Cooke Wright Lectureship, Guillermina Lozano, Room W320 (Chapin Theater), Orange County Convention Center, p. 184

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

Telomeres and Telomerase: Double-edged Swords in Cancer, Elizabeth H. Blackburn, West Hall D, Orange County Convention Center, p. 185

5:30-6:30 p.m.  Meet the Research Pioneer

Meet the Research Pioneer: Undergraduate Focus, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 186

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

Chemistry in Cancer Research Town Meeting and Reception, Peter C. Dedon, Chairperson, Barel Spring, The Peabody Hotel, p. 186

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

Cancer Immunology Working Group Town Meeting and Reception, Olivera J. Finn, Chairperson, Peabody Q, The Peabody Hotel, p. 186

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


6:45-8:30 p.m.  PCWG Town Meeting

Pediatric Cancer Working Group Town Meeting and Reception, Lee J. Helman, Chairperson, Florida C, The Peabody Hotel, p. 188

9:00 p.m.–12:00 a.m.  Annual Reception

Peabody R-V, The Peabody Hotel, p. 188
Monday, April 4

7:00-8:00 a.m.  Meet-the-Expert Sessions
Chemotherapeutic Drugs and p53: New Insights, David P. Lane, Room W330, Orange County Convention Center, p. 189
Clinical Implications of GWAS Results in Breast and Prostate Cancer, Bruce A. J. Ponder, West Hall F1/F2, Orange County Convention Center, p. 189
Defining the Signaling Landscape Upstream and Downstream of mTOR Complex 1, John Blenis, Room W311 A-D, Orange County Convention Center, p. 189
Molecular Signatures in Breast Cancer: Current and Future Developments for Personalized Medicine, Christos Sotiriou, Room W224 C/D/G/H, Orange County Convention Center, p. 189
Next-Generation Therapeutic Modalities in Cancer, Gregory L. Verdine, Room W311 E-H, Orange County Convention Center, p. 190
The Obesity, Inflammation, Breast Cancer Connection, Andrew J. Dannenberg, Room W230 A-C, Orange County Convention Center, p. 190
Ovarian Cancer, the Oviduct, and What You Should Be Thinking About, Christopher P. Crum, Room W414 A/B, Orange County Convention Center, p. 190
PDGF/Proneural GBMs: Microenvironment and Therapeutic Response, Eric C. Holland, Room W414 C/D, Orange County Convention Center, p. 190
Targeting Embryonic and Vascular Signaling Pathways to Suppress the Metastatic Phenotype, Mary J. C. Hendrix, Room W224 A/B/E/F, Orange County Convention Center, p. 190
Wnt Signaling During Stem Cell Self-Renewal and Cancer, Roel Nusse, West Hall F5, Orange County Convention Center, p. 191

8:00 a.m.-12:00 p.m.  Poster Sessions
CB 15 Altered Metabolic Regulation in Cancer, Exhibit Hall A4-C, Poster Section 1, p. 193
CB 16 Cancer Cell Signaling 1, Exhibit Hall A4-C, Poster Section 2, p. 194
CB 17 Cancer Cell Signaling 2, Exhibit Hall A4-C, Poster Section 3, p. 195
CB 18 Cytoplasmic Signal Transducers, Exhibit Hall A4-C, Poster Section 4, p. 196
CB 19 Growth Factor Signaling, Exhibit Hall A4-C, Poster Section 5, p. 197
CB 20 Growth Factors and Cell Surface Receptors, Exhibit Hall A4-C, Poster Section 6, p. 198
CB 21 microRNAs at the Patient Bedside, Exhibit Hall A4-C, Poster Section 7, p. 199
CB 22 Other Noncoding RNAs: As Important As microRNAs, Exhibit Hall A4-C, Poster Section 8, p. 200
CB 23 Receptor Signaling, Exhibit Hall A4-C, Poster Section 9, p. 201
CB 24 Senescence, Aging, and Telomere Shortening, Exhibit Hall A4-C, Poster Section 10, p. 202
CB 25 Understanding Metabolic Pathways and Their Regulation in Cancer, Exhibit Hall A4-C, Poster Section 11, p. 203
CL 4 Pharmacodynamics of Targeted Agents, Exhibit Hall A4-C, Poster Section 12, p. 204
CL 5 Pharmacokinetics and Metabolism, Exhibit Hall A4-C, Poster Section 13, p. 205
CG 2 Hormonal and Environmental Carcinogenesis, Exhibit Hall A4-C, Poster Section 15, p. 206
CH 2 Drug Design and Lead Optimization 1, Exhibit Hall A4-C, Poster Section 16, p. 207
CH 3 High-Throughput Screening: Targets, Assays, and Libraries, Exhibit Hall A4-C, Poster Section 17, p. 208
TB 10 Cell Migration and Invasion 1, Exhibit Hall A4-C, Poster Section 18, p. 209
TB 11 Cell Migration and Invasion 2, Exhibit Hall A4-C, Poster Section 19, p. 210
TB 12 Metastasis Suppressing Genes, Exhibit Hall A4-C, Poster Section 20, p. 211
TB 13 Promoters of Metastasis and Invasion, Exhibit Hall A4-C, Poster Section 21, p. 212
Monday, April 4

TB 14 Proteases, Protease Inhibitors, and Extracellular Matrix Remodeling in Tumor Progression, Exhibit Hall A4-C, Poster Section 22, p. 213
TB 15 Targeting Tumor Invasion, Exhibit Hall A4-C, Poster Section 23, p. 214
TB 16 Tumor and Vascular Stroma, Exhibit Hall A4-C, Poster Section 24, p. 215
TB 17 Xenograft Models, Exhibit Hall A4-C, Poster Section 25, p. 216
ET 9 Identification of Molecular Targets 1, Exhibit Hall A4-C, Poster Section 26, p. 217
ET 10 Identification of Molecular Targets 2, Exhibit Hall A4-C, Poster Section 27, p. 218
ET 11 Identification of Molecular Targets 3, Exhibit Hall A4-C, Poster Section 28, p. 219
ET 12 Resistance to Chemotherapeutic Agents, Exhibit Hall A4-C, Poster Section 29, p. 220
ET 13 Reversal of Cancer Drug Resistance, Exhibit Hall A4-C, Poster Section 30, p. 221
ET 14 Targeting Cell Surface Proteins/Apoptosis, Exhibit Hall A4-C, Poster Section 31, p. 222
IM 3 Novel Combination Immunotherapy Approaches and New Agents, Exhibit Hall A4-C, Poster Section 32, p. 223
PR 3 Behavioral and Social Science in Cancer Prevention Research, Exhibit Hall A4-C, Poster Section 33, p. 224
PR 4 Novel Chemopreventive Agents and Combinations, Exhibit Hall A4-C, Poster Section 34, p. 225
EP 4 Exogenous and Genetic Factors in Cancer Risk Prediction, Exhibit Hall A4-C, Poster Section 35, p. 226
EP 5 Lifestyle and Health Disparities in Cancer Risk, Exhibit Hall A4-C, Poster Section 36, p. 227

8:15-10:15 a.m. Plenary Session
Integrative and Systems Genomics Approaches for the Elucidation of Tumor Initiation and Progression, Andrea Califano, Chairperson, West Hall D, Orange County Convention Center, p. 192

8:30-10:30 a.m. Professional Advancement Series Session
Women in Cancer Research Career Mentoring Session, Wen-Jen Hwu and Worta McCaskill-Stevens, Co-Chairpersons, Windermere W, The Peabody Hotel, p. 228

9:30-11:30 a.m. MICR Forum

9:30 a.m.-2:30 p.m. Professional Advancement Series Session
The Conquest of Cancer and the Next Generation of Cancer Researchers: AACR Special Program for High School Students, Stewart Sell, Chairperson, Room W209, Orange County Convention Center, p. 230

10:00-11:00 a.m. Meet the Research Pioneer
Elizabeth H. Blackburn, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 231

10:15-11:45 a.m. NCI/NIH-Sponsored Session
Using Informatics to Accelerate Translational Cancer Research: The Cancer Biomedical Informatics Grid® (caBIG®), Mervi A. Heiskanen, Chairperson, Room W208, Orange County Convention Center, p. 231

10:30 a.m.-12:30 p.m. Major Symposia
Dysregulation of Cell Polarity and Cancer: Cause or Consequence, Senthil K. Muthuswamy, Chairperson, Room W330, Orange County Convention Center, p. 233

Emerging Drugs and Mechanisms in Cancer Treatment, James A. Wells, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 233

The Stanley J. Korsmeyer Memorial Symposium: New Concepts in Cell Death Processes, Junying Yuan, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 234

Recent Findings from Genomic Analyses of Tumors, Michael R. Stratton, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 234

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
Monday, April 4

Siruins, Obesity, and Cancer, Manuel Serrano, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 235

The Bayard D. Clarkson Symposium on Stem Cells and Cancer: Stem Cells and Tumor Plasticity, Jane E. Visvader, Chairperson, West Hall F5, Orange County Convention Center, p. 236

The Role of Mouse Models in Defining Cancer Therapy: From Targets to Compounds to Trial Design, Tyler Jacks, Chairperson, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 235

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


Inter- and Intratumor Genetic Heterogeneity in Breast Cancer, Jorge Reis-Filho, Chairperson, Room W224 A/B/E/F, Orange County Convention Center, p. 237

New Developments in Anti-EGFR Therapy, Pasi A. Jänne, Chairperson, Room W311 E-H, Orange County Convention Center, p. 238

New Directions for Brain Metastases, Patricia S. Steeg, Chairperson, Room W315, Orange County Convention Center, p. 238

Novel Targets in Melanoma Research, Michael A. Davies, Chairperson, Room W230 A-C, Orange County Convention Center, p. 239

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

Translational Research: Where Do You Fit In and What You Need to Succeed, Orlando L&M, The Peabody Hotel, p. 232

11:00 a.m.-12:00 p.m.  Career Conversations

How to Succeed in a U.S. Educational Academic Setup: Tips for International Trainees, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 240

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

Bringing Innovative Science to the Market: NCI SBIR Initiatives to Advance the Commercialization of New Cancer Technologies, Michael Weingarten, Chairperson, Room W208, Orange County Convention Center, p. 241

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

Room W314, Orange County Convention Center, p. 242

1:00-2:00 p.m.  Career Conversations

Collaborating Towards Success: Tips for Early Career Scientists, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 243

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

Frontiers in Cancer Susceptibility, Thomas A. Sellers, Chairperson, West Hall F5, Orange County Convention Center, p. 245

Metabolic Differences between Normal and Cancer Cells, Karen H. Vousden, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 245

microRNAs and Other Noncoding RNAs in Cancer: From Research to Medicine and Something More, George A. Calin, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 246

Network Regulation of Cell Function and Dysfunction, Eric E. Schadt, Chairperson, Room W330, Orange County Convention Center, p. 246

Recent Developments in Strategies for Early Cancer Detection, Sanjiv S. Gambhir, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 247

Stem Cells and Epigenetic Regulation in Pediatric Cancer, Richard J. Gilbertson, Chairperson, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 247

Tumor Angiogenesis: VEGF and Beyond, Luisa Iruela-Arispe, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 248

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Monday, April 4

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

Colon Cancer Genomics and Mouse Models, Kevin M. Haigis and Victor E. Velculescu, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 249

Genomic-based Stratification of Ovarian Carcinoma: Gene, Mouse, Marker, Therapy, David Huntsman and Elise C. Kohn, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 249

Glioblastoma: Molecular Subclasses, Markers, and Pathways to Clinical Application, Cameron W. Brennan, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 250

Multiple Myeloma, Kenneth C. Anderson and Rafael Fonseca, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 250

Working Towards Personalized Head and Neck Cancer Therapy: Head and Neck Squamous Cell Carcinoma, Jeffrey N. Myers and J. Silvio Gutkind, Co-Chairpersons, Room W315, Orange County Convention Center, p. 251

1:00-3:00 p.m.  Special Session

Stand Up to Cancer: Innovative Research Grant Winners Poster Discussion Session, Room W205, Orange County Convention Center, p. 244

1:00-5:00 p.m.  Late-Breaking Poster Sessions

Late-Breaking Research: Cancer Chemistry, Exhibit Hall A4-C, Poster Section 39, p. 286

Late-Breaking Research: Cellular and Molecular Biology 3, Exhibit Hall A4-C, Poster Section 38, p. 286

Late-Breaking Research: Experimental and Molecular Therapeutics 1, Exhibit Hall A4-C, Poster Section 40, p. 286

1:00-5:00 p.m.  Poster Sessions

CB 26  Cancer Cell Signaling 3, Exhibit Hall A4-C, Poster Section 1, p. 252

CB 27  Cancer Cell Signaling 4, Exhibit Hall A4-C, Poster Section 2, p. 253

CB 28  Environmentally and Therapeutically Induced Epigenetic Changes, Exhibit Hall A4-C, Poster Section 3, p. 254

CB 29  Gene Regulation and Cancer: Reprogramming, Animal Models, New Screens, Exhibit Hall A4-C, Poster Section 4, p. 255

CB 30  Hypoxia, Exhibit Hall A4-C, Poster Section 5, p. 256

CB 31  Oxidative Stress and the Unfolded Protein Response, Exhibit Hall A4-C, Poster Section 6, p. 257

CB 32  Signaling Pathways Involved in Oncogenesis and Tumor Suppression, Exhibit Hall A4-C, Poster Section 7, p. 258

CB 33  Therapeutics and Cell Death Induction, Exhibit Hall A4-C, Poster Section 8, p. 259

CB 34  Transcription Factor Pathogenesis of the Malignant Phenotype, Exhibit Hall A4-C, Poster Section 9, p. 260

CB 35  Tumor Suppressors and Signaling, Exhibit Hall A4-C, Poster Section 10, p. 261

CL 6  Molecular Diagnostics in the Clinic, Exhibit Hall A4-C, Poster Section 12, p. 262

CL 7  Novel Therapeutics in Clinical Research, Exhibit Hall A4-C, Poster Section 13, p. 263

CL 8  Prognostic Biomarkers 1, Exhibit Hall A4-C, Poster Section 14, p. 264

EN 3  Steroid Receptors in Breast Cancer, Exhibit Hall A4-C, Poster Section 15, p. 265

CH 4  Small Molecule Anticancer Drugs and Drug Targets, Exhibit Hall A4-C, Poster Section 16, p. 266

CH 5  Structural Biology, Exhibit Hall A4-C, Poster Section 17, p. 267

TB 18  Cell Migration and Invasion 3, Exhibit Hall A4-C, Poster Section 18, p. 268

TB 19  Cell Migration and Invasion 4, Exhibit Hall A4-C, Poster Section 19, p. 269

TB 20  Epithelial Cancers 1, Exhibit Hall A4-C, Poster Section 20, p. 270

TB 21  Epithelial Cancers 2, Exhibit Hall A4-C, Poster Section 21, p. 271

TB 22  Genes, Models, and Regulation of Motility, Invasion, and Metastasis, Exhibit Hall A4-C, Poster Section 22, p. 272

TB 23  Pancreatic and Liver Cancer Stem Cells, Exhibit Hall A4-C, Poster Section 23, p. 273

TB 24  Radiation, Cell Cycle Regulation, and DNA Damage Response, Exhibit Hall A4-C, Poster Section 24, p. 274
Monday, April 4

**TB 25** Radiosensitization and Radioprotection, Exhibit Hall A4-C, Poster Section 25, p. 275

**ET 15** Chemotherapeutic Agents, Exhibit Hall A4-C, Poster Section 26, p. 276

**ET 16** Drug Combinations 1, Exhibit Hall A4-C, Poster Section 27, p. 277

**ET 17** Drug Discovery 1, Exhibit Hall A4-C, Poster Section 28, p. 278

**ET 18** Inhibitors of HDACs, Hsp90, and Proteasomes, Exhibit Hall A4-C, Poster Section 29, p. 279

**ET 19** Novel Mechanisms of Targeted Agents, Exhibit Hall A4-C, Poster Section 30, p. 280

**ET 20** Radiation Response Modifiers: Preclinical and Clinical Studies, Exhibit Hall A4-C, Poster Section 31, p. 281

**IM 4** Immunotherapy and Targets for Tumor Destruction, Exhibit Hall A4-C, Poster Section 32, p. 282

**CG 3** Viral Carcinogenesis and Tumor Promotion, Exhibit Hall A4-C, Poster Section 33, p. 283

**EP 6** Methodologies for Molecular Epidemiology, Gene-Environment, and Survival Studies, Exhibit Hall A4-C, Poster Section 35, p. 284

**EP 7** Molecular Epidemiology of Hematologic Malignancies and Prostate/Genitourinary Cancers, Exhibit Hall A4-C, Poster Section 36, p. 285

1:30-3:00 p.m. **NCI/NIH-Sponsored Session**

*Image-guided Drug Delivery in Cancer: Challenges and Opportunities.* Keyvan Farahani, Chairperson, Room W208, Orange County Convention Center, p. 287

2:00-3:00 p.m. **Meet the Research Pioneer**

Craig D. Logsdon, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 288

2:00-3:00 p.m. **Science Policy Session**

*What Will It Take to Curb the Tobacco Epidemic?*, Room W414 C/D, Orange County Convention Center, p. 289

3:00-4:00 p.m. **Career Conversations**

*Basic and Translational Research Career Paths in Pancreatic Cancer*, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 290

3:00-5:00 p.m. **Forum**

*Joint AACR/ASCO Presidential Forum: Cancer Interception—The Path Forward*, Elizabeth H. Blackburn and George W. Sledge, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 290

3:00-5:00 p.m. **Minisymposia**

**CH 6** Drug Design and Lead Optimization 2, Kevin G. Pinney and Melissa M. Vasbinder, Co-Chairpersons, Room W315, Orange County Convention Center, p. 292

**CB 36** Epigenetic Mechanisms and Markers of Disease, Robert J. Arceci and Peter A. Jones, Co-Chairpersons, Room W224 C/D/G/H, Orange County Convention Center, p. 292

**CB 37** Metabolic Regulation and Cancer, Ralph J. DeBerardinis and Matthew G. Vander Heiden, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 293

**CB 38** Oncogenes and Tumor Suppressors, Victor E. Velculescu and Bernard E. Weissman, Co-Chairpersons, Room W414 C/D/E/F, Orange County Convention Center, p. 294

**CL 9** Early Detection Biomarkers: Aptamers, miRs, and Autoantibodies, David Sidransky and Francisco J. Esteva, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 293

**ET 21** New Small Molecule Therapeutics, Marco Gottardis and Marcia P. Belvin, Co-Chairpersons, Room W414 C/D, Orange County Convention Center, p. 294

**ET 22** Novel Therapeutic Modalities and Molecules, Markus Warmuth and Tomi Sawyer, Co-Chairpersons, Room W209, Orange County Convention Center, p. 295

**PR 5** Mouse Models, Markers, and Chemoprevention Targets, Eva Szabo and Powel H. Brown, Co-Chairpersons, Room W314, Orange County Convention Center, p. 295

**TB 26** Tumor Microenvironment: Role in Therapeutic Responses and Metastatic Progression, Jeffrey W. Pollard and Lisa M. Coussens, Co-Chairpersons, West Hall F5, Orange County Convention Center, p. 296

**TB 27** Angiogenesis, Napoleon Ferrara and M. Celeste C. Simon, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 296

**TB 28** Animal Models of Cancer, Dean W. Felsher and Sheri L. Holmen, Co-Chairpersons, Room W330, Orange County Convention Center, p. 297

AACR 102nd Annual Meeting 2011
Monday, April 4

3:00-5:00 p.m.  DOD-Sponsored Session
Department of Defense Funding Opportunities for Cancer Research: A DOD CDMRP-sponsored Session, Karen Wylie, Moderator, Room W208, Orange County Convention Center, p. 298

3:00-5:00 p.m.  Special Symposium
Ethical Issues in Performing Randomized Clinical Trials, Lowell E. Schnipper and Walter Wolf, Co-Chairpersons, Room W414 A/B, Orange County Convention Center, p. 299

3:00-5:00 p.m.  Symposium: Late-Breaking Research
Late-Breaking Basic Abstracts: Tumor Biology and Genetics, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 291

3:30-4:30 p.m.  Award Lecture
Fifth Annual AACR Princess Takamatsu Memorial Lectureship, Philip C. Hanawalt, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 300

4:30-5:30 p.m.  Award Lecture
Fifty-first Annual AACR G.H.A. Clowes Memorial Award, Yosef Shiloh, West Hall F3/F4, Orange County Convention Center, p. 301

5:00-6:30 p.m.  NCI/NIH-Sponsored Session
Parlaying the K Award into Your First R01: How Did They Do It? Ming Lei, Sonia B. Jakowlew, and Nancy C. Lohrey, Co-Chairpersons, Room W208, Orange County Convention Center, p. 305

5:00-6:30 p.m.  MICR Town Meeting
Minorities in Cancer Research Town Meeting, Maria E. Martinez, Chairperson, Orlando L&M, The Peabody Hotel, p. 305

5:30-7:30 p.m.  Professional Advancement Series Session
Career Paths in Cancer Drug Development, presented by the Young Chemists Committee, Orlando N, The Peabody Hotel, p. 306

6:30-8:30 p.m.  Professional Advancement Series Session
Navigating the Road to a Successful Career in Cancer Research: The MICR Professional Advancement Roundtable and Reception, Marcia R. Cruz-Correa and Cheryl L. Willman, Co-Chairpersons, Peabody R, The Peabody Hotel, p. 307

6:30-8:30 p.m.  TME Town Meeting
Tumor Microenvironment Working Group Town Meeting and Reception, Yves A. DeClerck, Chairperson, Peabody Q, The Peabody Hotel, p. 308
Tuesday, April 5

Meet-the-Expert Sessions

7:00-8:00 a.m.

Advances in Dynamic Real-Time Molecular Imaging of Signaling Pathways: Monitoring Protein-Protein Interactions, Protein Processing, and Drug Action In vivo, David Piwnica-Worms, Room W311 A-D, Orange County Convention Center, p. 309

Cell-Matrix Interactions in Progression of Cancer, Richard O. Hynes, Room W224 C/D/G/H, Orange County Convention Center, p. 309

Clinical Translation of a Mammaglobin: A DNA Vaccine for the Treatment of Breast Cancer, William F. Gillanders, Room W230 A-C, Orange County Convention Center, p. 310

High Content Screening to Identify Regulators of Cancer Cell Invasion, Sara A. Courtenedge, Room W311 E-H, Orange County Convention Center, p. 310

Models and Markers to Personalize Cancer Therapy, David Sidransky, Room W330, Orange County Convention Center, p. 310

Overexpression of Cks1 or Cks2 Overrides the DNA Damage Response Barrier Triggered by Activated Oncoproteins, Steven I. Reed, Room W414 A/B, Orange County Convention Center, p. 310

Paradoxical Effects of Cytotoxic Therapies: Activation of HIF-1 by Tumor and Stromal Cells, Mark W. Dewhirst, Room W414 C/D, Orange County Convention Center, p. 311

The Breast Tumor Microenvironment: A Predictor of Clinical Outcome and Tumor Heterogeneity, Morag Park, Room W224 A/B/E/F, Orange County Convention Center, p. 309

The p53 pathway, Stem Cells, and Cancer, Geoffrey M. Wahl, West Hall F1/F2, Orange County Convention Center, p. 311

NCI/NIH-Sponsored Session

7:00-8:00 a.m.

Cancer Research Collaborations with Latin America: When Science Meets Culture, Jorge Gomez, Chairperson, Room W208, Orange County Convention Center, p. 312

8:00 a.m.-12:00 p.m.

Late-Breaking Poster Sessions

Late-Breaking Research: Cellular and Molecular Biology 4, Exhibit Hall A4-C, Poster Section 37, p. 313

Late-Breaking Research: Clinical Research 1, Exhibit Hall A4-C, Poster Section 40, p. 313

Late-Breaking Research: Tumor Biology 3, Exhibit Hall A4-C, Poster Section 38, p. 313

8:00 a.m.-12:00 p.m.

Poster Session

CB 39 Autophagy, Exhibit Hall A4-C, Poster Section 1, p. 314

CB 40 Cancer Cell Signaling 5, Exhibit Hall A4-C, Poster Section 2, p. 315

CB 41 Cancer Cell Signaling 6, Exhibit Hall A4-C, Poster Section 3, p. 316

CB 42 Cell Cycle Progression, Exhibit Hall A4-C, Poster Section 4, p. 317

CB 43 Checkpoint Regulation and Inhibition, Exhibit Hall A4-C, Poster Section 5, p. 318

CB 44 Chromosome Maintenance and Mitosis, Exhibit Hall A4-C, Poster Section 6, p. 319

CB 45 Epigenetic Mechanisms and Methods, Exhibit Hall A4-C, Poster Section 7, p. 320

CB 46 Functional Identification of Cancer Genes, Exhibit Hall A4-C, Poster Section 8, p. 321

CB 47 Somatic Mutations in Cancers, Exhibit Hall A4-C, Poster Section 9, p. 322

CB 48 Transcriptional and Post-transcriptional Gene Regulation, Exhibit Hall A4-C, Poster Section 10, p. 323

CB 49 Tumor Microenvironment Interactions, Exhibit Hall A4-C, Poster Section 11, p. 324

CL 10 Biomarkers Predictive of Clinical Benefit 1: Breast, Ovary, and Other Epithelial Malignancies, Exhibit Hall A4-C, Poster Section 12, p. 325

CL 11 Cancer Risk and Early Detection Biomarkers, Exhibit Hall A4-C, Poster Section 13, p. 326

CL 12 Molecular Correlates of Stage and Prognosis, Exhibit Hall A4-C, Poster Section 14, p. 327

CH 7 Drug Delivery and Drug Metabolism, Exhibit Hall A4-C, Poster Section 15, p. 328

CH 8 Drug Design and Lead Optimization 3, Exhibit Hall A4-C, Poster Section 16, p. 329

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Tuesday, April 5

TB 29 Angiogenesis Inhibitors 1, Exhibit Hall A4-C, Poster Section 18, p. 330
TB 30 Brain Cancer Stem Cells, Exhibit Hall A4-C, Poster Section 19, p. 331
TB 31 Breast Cancer Stem Cells, Exhibit Hall A4-C, Poster Section 20, p. 332
TB 32 Epithelial-Mesenchymal Transition: Promotion and Inhibition, Exhibit Hall A4-C, Poster Section 21, p. 333
TB 33 Hematopoietic, Ovarian, and Brain Cancer Stem Cells, Exhibit Hall A4-C, Poster Section 22, p. 334
TB 34 Induction of Epithelial-Mesenchymal Transition, Exhibit Hall A4-C, Poster Section 23, p. 335
TB 35 Pediatric Brain Tumors, Exhibit Hall A4-C, Poster Section 24, p. 336
TB 36 Tumor Vascular Biology, Exhibit Hall A4-C, Poster Section 25, p. 337
ET 23 Drug Combinations 2, Exhibit Hall A4-C, Poster Section 26, p. 338
ET 24 Drug Discovery 2, Exhibit Hall A4-C, Poster Section 27, p. 339
ET 25 Kinase Inhibitors 1, Exhibit Hall A4-C, Poster Section 28, p. 340
ET 26 Kinase Inhibitors 2, Exhibit Hall A4-C, Poster Section 29, p. 341
ET 27 Novel Biologics and Antibody-Drug Conjugates, Exhibit Hall A4-C, Poster Section 30, p. 342
IM 5 Immune Suppression in the Tumor Microenvironment / Monoclonal Antibodies, Exhibit Hall A4-C, Poster Section 31, p. 343
PR 6 Clinical Prevention Studies, Exhibit Hall A4-C, Poster Section 33, p. 344
PR 7 Molecular Targets and Chemoprevention, Exhibit Hall A4-C, Poster Section 34, p. 345
EP 8 Breast and Ovarian Cancer Epidemiology, Exhibit Hall A4-C, Poster Section 35, p. 346
EP 9 Molecular Epidemiology of Gastrointestinal Cancers, Exhibit Hall A4-C, Poster Section 36, p. 347

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

Advances in Tumor Cell Heterogeneity, Joan Massagué, Chairperson, West Hall D, Orange County Convention Center, p. 313

9:30-10:30 a.m. Meet and Greet Session

Meet the AACR Chief Executive Officer, Margaret Foti, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 348

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

NCI’s Early Detection Research Network: Charting the Future of Biomarker Research in Cancer Detection, Sudhir Srivastava, Chairperson, Room W208, Orange County Convention Center, p. 349

10:30-11:30 a.m. Meet the Research Pioneer

Meet the Research Pioneer: Undergraduate Focus, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 350

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

Can Advancing our Understanding of the Human Genome Reduce Breast Cancer Health Disparities? The MiCR Scientific Symposium, Christopher I. Li and Miguel A. Villalona-Calero, Co-Chairpersons, Room W209, Orange County Convention Center, p. 351

Computational and Experimental Perspectives on Dissecting and Modeling Cancer Pathways, Joshua M. Stuart, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 351

DNA Methylation Profiles of Human Cancer, Manel Esteller, Chairperson, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 352

Energy, Metabolism, and Cancer, Chi Van Dang, Chairperson, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 352

Immune Checkpoint Blockade: New Insights and Opportunities, James P. Allison, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 353

Modeling Therapeutic Response and Resistance, Pier Paolo Pandolfi, Chairperson, West Hall F5, Orange County Convention Center, p. 353

Nanotheranostics: Opportunities and Challenges for Clinical Translation, Kit S. Lam, Chairperson, Room W330, Orange County Convention Center, p. 354

Signaling Pathways That Regulate Stem Cell Function, Hans Clevers, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 354
Tuesday, April 5

10:30 a.m.-12:30 p.m.  New Concepts in Organ Site Research
Basic and Translational Research to Reduce the Burden of HPV-associated Cancers, Cornelia Trimble and Louise T. Chow, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 355

Esophageal/Gastric Cancer: Genomics, Evolutionary Biology, Microbiome, and Novel Mouse Models, Brian J. Reid, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 356

New Genomics-based Targets in Lung Cancer, Roman K. Thomas and William Pao, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 356

Novel Therapeutic Strategies for the Treatment of Bone Metastases, Joanne Edwards, Chairperson, Room W224 A/B/E/F, Orange County Convention Center, p. 357

Understanding Gastrointestinal Neuroendocrine Tumors and How to Treat Them, Andrew B. Leiter and James C. Yao, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 355

11:00 a.m.-12:00 p.m.  Career Conversations
Career Opportunities in Biotechnology and Biomedical Engineering: Looking into the Future of Cancer Research, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 358

11:30 a.m.-12:30 p.m.  Meet the Research Pioneer
William S. Dalton, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p.

11:45 a.m.-1:15 p.m.  NCI/NIH-Sponsored Session
NCI’s Clinical Trials Cooperative Group Program: Infrastructure in Transition, James H. Doroshow, Chairperson, Room W208, Orange County Convention Center, p. 359

1:00-2:00 p.m.  Career Conversations
Choosing the Right Postdoctoral Fellowship/Clinical Fellowship for Research Careers in Academia, Industry, and Government, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 360

1:00-2:15 p.m.  Science Policy Session
Personalizing Cancer Treatment: How the FDA Touches Every Cancer Patient, Room W314, Orange County Convention Center, p. 361

1:00-3:00 p.m.  Major Symposia
A Systems Biology Approach to Cancer Therapeutics, Gordon B. Mills, Chairperson, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 362

The Ruth Sager Memorial Symposium on Cancer Genetics and Epigenetics: Cancer Epigenetics and Epigenetic Therapies, Kristian Helin, Chairperson, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 362

Cancer Progression Triggered by Alterations in Protein Trafficking, Yosef Yarden, Chairperson, Room W330, Orange County Convention Center, p. 363

Cancer Vaccines for Cancer Prevention, Mary L. Disis, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 365

1:00-3:00 p.m.  New Concepts in Organ Site Research
B-Cell Lymphomas: Molecular Mechanisms to Targeted Therapy, Margaret A. Shipp and Riccardo Dalla-Favera, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 366

From Understanding of the Mechanism to Development of Novel Drugs, Lopa Mishra, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 366

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Tuesday, April 5

Redesigning the Taxonomy of Colorectal Cancers: From Histology to Molecular Genetics, Sabine Tejpar and Alberto Bardelli, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 367

Resistance to Targeted Therapies in Breast Cancer, Matthew J. Ellis and Rachel Schiff, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 367

Stem Cells in the Brain: At the Crossroads of Development and Disease, Jeremy N. Rich, Chairperson, Room W311 E-H, Orange County Convention Center, p. 368

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

Securing a Faculty Position: Building a Competitive Portfolio and Landing the Job, Peabody O, The Peabody Hotel, p. 369

1:00-5:00 p.m. Late-Breaking Poster Sessions

Late-Breaking Research: Cellular and Molecular Biology 5, Exhibit Hall A4-C, Poster Section 37, p. 369

Late-Breaking Research: Clinical Research 2 (Clinical Trials), Exhibit Hall A4-C, Poster Section 40, p. 369

Late-Breaking Research: Experimental and Molecular Therapeutics 2, Exhibit Hall A4-C, Poster Section 39, p. 369

Late-Breaking Research: Tumor Biology 4, Exhibit Hall A4-C, Poster Section 38, p. 369

1:00-5:00 p.m. Poster Sessions

CB 50 Autophagy and Altered Mitochondrial Function, Exhibit Hall A4-C, Poster Section 1, p. 370

CB 51 Cancer Biomarkers, Exhibit Hall A4-C, Poster Section 2, p. 371

CB 52 Cancer Cell Signaling 7, Exhibit Hall A4-C, Poster Section 3, p. 372

CB 53 Cancer Gene Expression Profiling/Molecular Genetics, Exhibit Hall A4-C, Poster Section 4, p. 373

CB 54 Genomic Instability 1, Exhibit Hall A4-C, Poster Section 5, p. 374

CB 55 Genomic Instability 2, Exhibit Hall A4-C, Poster Section 6, p. 375

CB 56 How microRNAs Work, Exhibit Hall A4-C, Poster Section 7, p. 376

CB 57 microRNA Technologies Help Patients, Exhibit Hall A4-C, Poster Section 8, p. 377

CB 58 Nuclear Oncoproteins and Tumor Suppressors, Exhibit Hall A4-C, Poster Section 9, p. 378

CB 59 Protein Modifications, Cell Polarity, and Novel Technologies, Exhibit Hall A4-C, Poster Section 10, p. 379

CB 60 Strategies to Exploit Altered Metabolism in the Clinic, Exhibit Hall A4-C, Poster Section 11, p. 380

CB 61 TRAIL Signaling and Caspases, Exhibit Hall A4-C, Poster Section 12, p. 381

CL 13 Biomarkers Predictive of Clinical Benefit 2: Lung, Head and Neck, Colon, and Other Cancers, Exhibit Hall A4-C, Poster Section 13, p. 382

CL 14 Functional Imaging and Noninvasive Diagnostics, Exhibit Hall A4-C, Poster Section 14, p. 383

CL 15 Prognostic Biomarkers 2, Exhibit Hall A4-C, Poster Section 15, p. 384

CG 4 Radiation, Oxidative Stress, and DNA Damage Repair, Exhibit Hall A4-C, Poster Section 16, p. 385

CH 9 Natural Products, Exhibit Hall A4-C, Poster Section 17, p. 386

TB 37 Angiogenesis Inhibitors 2, Exhibit Hall A4-C, Poster Section 18, p. 387

TB 38 Modeling and Predictions, Exhibit Hall A4-C, Poster Section 19, p. 388

TB 39 Models of Therapy, Exhibit Hall A4-C, Poster Section 20, p. 389

TB 40 Pediatric Neuroblastoma/Translational Studies, Exhibit Hall A4-C, Poster Section 21, p. 390

TB 41 Stem Cells in Cancer Biology and Therapy 2, Exhibit Hall A4-C, Poster Section 22, p. 391

ET 28 Molecular and Cellular Pharmacology and Toxicology, Exhibit Hall A4-C, Poster Section 23, p. 392

ET 29 New Target Models and Tumor Classification, Exhibit Hall A4-C, Poster Section 24, p. 393

ET 30 Novel Drug Delivery Systems, Exhibit Hall A4-C, Poster Section 25, p. 394

ET 31 Novel Targets for New and Established Drugs, Exhibit Hall A4-C, Poster Section 26, p. 395

ET 32 PI3K/Akt/mTOR Pathway Inhibitors, Exhibit Hall A4-C, Poster Section 27, p. 396

April 2-6, 2011 • Orlando, FL
Tuesday, April 5

ET 33  **Targeted Agents**, Exhibit Hall A4-C, Poster Section 28, p. 397

EN 4  **Receptors in Cancer**, Exhibit Hall A4-C, Poster Section 29, p. 398

IM 6  **Cancer-targeting Antibodies**, Exhibit Hall A4-C, Poster Section 31, p. 399

PR 8  **Innovative Agents and Targets for Chemoprevention 1**, Exhibit Hall A4-C, Poster Section 33, p. 400

PR 9  **Innovative Agents and Targets for Chemoprevention 2**, Exhibit Hall A4-C, Poster Section 34, p. 401

EP 10  **Biomarkers of Risk, Exposure, and Intermediate Endpoints**, Exhibit Hall A4-C, Poster Section 35, p. 402

EP 11  **Clinical Epidemiology and Cancer Survivorship**, Exhibit Hall A4-C, Poster Section 36, p. 403

1:30-3:30 p.m.  NIH-Sponsored Session

**Technology Transfer and Intellectual Property: Financial and Career Opportunities for Researchers**, Phuong Kim Pham, Chairperson, Room W208, Orange County Convention Center, p. 404

2:00-3:00 p.m.  Career Conversations

**Careers in Science Teaching**, AACRcentral, Exhibit Hall A4-C, Orange County Convention Center, p. 404

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

**Fifth Annual AACR Award for Outstanding Achievement in Chemistry in Cancer Research**, Gregory L. Verdine, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 405

**Twentieth Annual AACR-American Cancer Society Award for Research Excellence in Cancer Epidemiology and Prevention**, John T. Schiller, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 406

3:00-4:00 p.m.  Special Session

**Love/Avon Army of Women Panel Discussion**, Room W205, Orange County Convention Center, p. 407

3:00-5:00 p.m.  Minisymposia

**CB 62  Cancer Cell Signal Transduction**, Martine F. Roussel and Lewis C. Cantley, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 408

**CB 63  Cell Death Regulation**, Simone Fulda and Shazib Pervaiz, Co-Chairpersons, Room W311 E-H, Orange County Convention Center, p. 408

**CB 64  Genetic Approaches to Identification of Novel Cancer Therapeutic Targets**, Matthew Meyerson and Peter Lichter, Co-Chairpersons, Room W224 C/D/G/H, Orange County Convention Center, p. 409

**CB 65  Noncoding RNAs and RISC Complex: No Risk for the Patients**, Muller Fabbri and Isidore Rigoutsos, Co-Chairpersons, West Hall F1/F2, Orange County Convention Center, p. 409

**CL 16  Novel Agents in Clinical Development**, Peter J. O’Dwyer and Charles M. Rudin, Co-Chairpersons, Room W414 C/D, Orange County Convention Center, p. 410

**CL 17  Novel Predictive and Prognostic Biomarkers in the Clinic**, James G. Herman and Elise C. Kohn, Co-Chairpersons, Room W209, Orange County Convention Center, p. 410

**EP 12  Genomic Associations Leading to Biological Insights**, Montserrat Garcia-Closas and John S. Witte, Co-Chairpersons, Room W414 A/B, Orange County Convention Center, p. 411

**ET 34  Mechanisms of Resistance to Emerging Anticancer Therapeutics**, Pasi A. Jänne and Jeffrey A. Engelman, Co-Chairpersons, West Hall F5, Orange County Convention Center, p. 411

**IM 7  Poised for the Clinic: Next Generation of Cancer Immunotherapy**, Howard L. Kaufman and Lisa H. Butterfield, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 412

**TB 42  Mechanisms Regulating Migration and Invasion In vivo**, Patricia J. Keely and Jing Yang, Co-Chairpersons, Room W311 A-D, Orange County Convention Center, p. 412

**TB 43  Genomics and Potential Targeted Therapies of Pediatric Malignancies**, Daniel S. Wechsler and Christine Pratilas, Co-Chairpersons, Room W315, Orange County Convention Center, p. 413
Tuesday, April 5

3:00-5:00 p.m. Minisymposium: Late-Breaking Research
Late-Breaking Abstracts: Cancer Therapeutics and Epidemiology, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 414

3:30-5:30 p.m. NIH-Sponsored Session
Funding Opportunities for Cancer Research at Multiple NIH Institutes and Centers, Phuong Kim Pham and Patricia W. Carolan, Co-Chairpersons, Room W208, Orange County Convention Center, p. 415

4:00-5:00 p.m. Award Lectures
Sixteenth Annual AACR Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research, Ching-Hon Pui, Room W320 (Chapin Theater), Orange County Convention Center, p. 416
Thirty-first Annual AACR Award for Outstanding Achievement in Cancer Research, Nathanael S. Gray, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 417

4:15-5:30 p.m. Science Policy Session
The Role of Health Information in Reforming Our Healthcare System: What It Means for Cancer Patients, Room W314, Orange County Convention Center, p. 418

4:30-6:30 p.m. Major Symposium
TCGA: Discovery and Innovation in Cancer Genomics, Lynda Chin, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 419

5:00-6:30 p.m. Forums
Is EMT Required for Metastasis? Jean-Paul Thiery, Moderator, Room W415 D (Valencia Ballroom), Orange County Convention Center, p. 420
The Role of Phase III Trials of Targeted Therapies: Is the Current System Viable and Are Biomarkers the Key to Its Survival? Johann S. de Bono, Moderator, Room W330, Orange County Convention Center, p. 420
Targeting KRAS: Direct Attack or Moving Downstream? Frank McCormick, Moderator, Room W415 A (Valencia Ballroom), Orange County Convention Center, p. 420
What Are the Barriers in Translating the Cancer Genome into Diagnostics? John P. A. Ioannidis, Moderator, West Hall F5, Orange County Convention Center, p. 421
What Are the Effects of Low-Dose Ionizing Radiation? Joe W. Gray, Moderator, West Hall F1/F2, Orange County Convention Center, p. 421
What Kind of T Cell Is Best for Adoptive Immunotherapy? Carl H. June, Moderator, Room W415 B/C (Valencia Ballroom), Orange County Convention Center, p. 421

6:00-7:30 p.m. MEG Town Meeting
Molecular Epidemiology Working Group Town Meeting and Reception, Orlando L&M, The Peabody Hotel, p. 422

6:30-8:30 p.m. Joint TME/CIMM Scientific Session
The Tumor Microenvironment and the Immune Response, Room W208, Orange County Convention Center, p. 422

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 6

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

Building a Biotech Company: From VEGF and IL1 Traps to VelociGene and VelocImmune, George D. Yancopoulos, Room W224 A/B/E/F, Orange County Convention Center, p. 430

Immune Biomarkers: Integration of Host-related Signatures with Cancer Cell-Derived Predictors for the Optimal Management of Anticancer Chemotherapy, Laurence Zitvogel, Room W209, Orange County Convention Center, p. 430

Molecular Pathogenesis of Inherited Breast Cancer, David M. Livingston, Room W224 C/D/G/H, Orange County Convention Center, p. 431

Personalized Prevention, Scott M. Lippman, Room W414 A/B, Orange County Convention Center, p. 431

The Cancer Biology-Physical Sciences Convergence: A New Frontier, Anna D. Barker, Room W230 A-C, Orange County Convention Center, p. 430

Tumor Metabolism: Back to the Future, Tak W. Mak, Room W311 A-D, Orange County Convention Center, p. 432

Vascular Alterations Induced by Signaling Inhibition as a Strategy for Altering the Tumor Microenvironment, W. Gillies McKenna, Room W414 C/D, Orange County Convention Center, p. 432

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

The NCI Therapeutically Applicable Research to Generate Effective Treatments (TARGET) Initiative: Using Large-Scale Genomics to Identify Novel Therapeutic Targets for Childhood Cancers, Malcolm A. Smith and Jaime Guirdy Auvil, Co-Chairpersons, Room W208, Orange County Convention Center, p. 429

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

Translation of Basic Science into Successful Clinical Outcomes, Bruce E. Johnson, Chairperson, Room W415 (Valencia Ballroom), Orange County Convention Center, p. 433

8:00 a.m.-12:00 p.m. Late-Breaking Poster Sessions

Late-Breaking Research: Prevention Research, Exhibit Hall A4-C, Poster Section 39, p. 433

Late-Breaking Research: Carcinogenesis, Exhibit Hall A4-C, Poster Section 37, p. 433

Late-Breaking Research: Epidemiology and Prevention, Exhibit Hall A4-C, Poster Section 38, p. 433

8:00 a.m.-12:00 p.m. Poster Sessions

CB 66 Death Receptors and Apoptotic Signaling Pathways, Exhibit Hall A4-C, Poster Section 1, p. 434

CB 67 Epigenetic Biomarkers and Profiling of Disease, Exhibit Hall A4-C, Poster Section 2, p. 435

CB 68 Genomic Profiling of Tumors, Exhibit Hall A4-C, Poster Section 3, p. 436

CB 69 Innovative Technologies for Cancer Research 1, Exhibit Hall A4-C, Poster Section 4, p. 437

CB 70 Innovative Technologies for Cancer Research 2, Exhibit Hall A4-C, Poster Section 5, p. 438

CB 71 Integrative Genomic Biology, Exhibit Hall A4-C, Poster Section 6, p. 439

CB 72 microRNAs: From Bench to Bedside, Exhibit Hall A4-C, Poster Section 7, p. 440

CB 73 Oncogenomics, Exhibit Hall A4-C, Poster Section 8, p. 441

CB 74 Targeting Transcription: Lung, Melanoma, Glioblastoma, Exhibit Hall A4-C, Poster Section 9, p. 442

CL 18 Clinical Research in the Elderly, Minorities, and the Medically Underserved, Exhibit Hall A4-C, Poster Section 11, p. 443

CL 19 Clinical Studies Targeting Signal Transduction, Exhibit Hall A4-C, Poster Section 12, p. 444

CL 20 Gene- and Protein-based Prognostic Panels, Exhibit Hall A4-C, Poster Section 13, p. 445

CL 21 Radiation Oncology, Exhibit Hall A4-C, Poster Section 14, p. 446

CH 10 Proteomics, Metabolomics, and Biomarker Discovery, Exhibit Hall A4-C, Poster Section 16, p. 447

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Wednesday, April 5

CH 11 Proteomics, Systems Biology, and Signaling Networks, Exhibit Hall A4-C, Poster Section 17, p. 448

TB 44 Angiogenic and Lymphangiogenic Factors, Exhibit Hall A4-C, Poster Section 18, p. 449

TB 45 Biomarkers of Metastasis, Exhibit Hall A4-C, Poster Section 19, p. 450

TB 46 Colorectal and Gastrointestinal Cancer Stem Cells, Exhibit Hall A4-C, Poster Section 20, p. 451

TB 47 Detection of Tumors, Metastases, and Circulating Tumor Cells, Exhibit Hall A4-C, Poster Section 21, p. 452

TB 48 Gene Expression in Metastatic Cells: Function and Clinical Correlations, Exhibit Hall A4-C, Poster Section 22, p. 453

TB 49 In vivo Imaging 1, Exhibit Hall A4-C, Poster Section 23, p. 454

TB 50 In vivo Imaging 2, Exhibit Hall A4-C, Poster Section 24, p. 455

TB 51 Pediatric Cancers and Testing of New Agents, Exhibit Hall A4-C, Poster Section 25, p. 456

ET 35 Enhancing Efficacy of Targeted Agents, Exhibit Hall A4-C, Poster Section 26, p. 457

ET 36 Gene and Vector-based Therapy, Exhibit Hall A4-C, Poster Section 27, p. 458

ET 37 Natural Products, Exhibit Hall A4-C, Poster Section 28, p. 459

ET 38 Novel Technologies in Drug Discovery, Exhibit Hall A4-C, Poster Section 29, p. 460

ET 39 Pharmacodynamics, Pharmacogenomics, and Pharmacokinetics, Exhibit Hall A4-C, Poster Section 30, p. 461

ET 40 Targets in the Cell Death and DNA Repair Pathways, Exhibit Hall A4-C, Poster Section 31, p. 462

IM 8 Immunotherapy Clinical Trials and Predictors of Response, Exhibit Hall A4-C, Poster Section 32, p. 463

CG 5 Molecular and Chemical Carcinogenesis, Exhibit Hall A4-C, Poster Section 33, p. 464

PR 10 Chemoprevention of Hormone-responsive Cancers, Exhibit Hall A4-C, Poster Section 34, p. 465

EP 13 Molecular Epidemiology of Breast and Gynecologic Cancers, Exhibit Hall A4-C, Poster Section 35, p. 466

10:00–11:00 a.m. Award Lecture

Thirty-fifth Annual AACR Richard and Hinda Rosenthal Memorial Award, Jean-Pierre J. Issa, Room W320 (Chapin Theater), Orange County Convention Center, p. 467

11:00 a.m.–1:00 p.m. Major Symposia

Digging Beneath the Surface of Genome Scans: Gene- and Pathway-based Analysis of GWAS Datasets, Nancy J. Cox, Chairperson, West Hall F5, Orange County Convention Center, p. 471

Progress on the Prevention of Cancer with Vaccines, Mark Kane, Chairperson, Room W311 E-H, Orange County Convention Center, p. 471

RNA Targeting Therapeutics, C. Frank Bennett, Chairperson, Room W414 A/B, Orange County Convention Center, p. 472

Stroma Contributions to Tumorigenesis, Timothy C. Wang, Chairperson, Room W311 A-D, Orange County Convention Center, p. 472

Targeting PI3K, Lewis C. Cantley, Chairperson, West Hall F3/F4, Orange County Convention Center, p. 473

Tumor Vasculature and Stroma Control Lymphocyte Tumor Infiltration and Function, George Coukos, Chairperson, West Hall F1/F2, Orange County Convention Center, p. 473

11:00 a.m.–1:00 p.m. New Concepts in Organ Site Research

Cellular and Genetic Origins of Pediatric Brain Tumors, Robert J. Wechsler-Reya and William A. Weiss, Co-Chairpersons, Room W209, Orange County Convention Center, p. 468

New Insights into the Biology of Sarcomagenesis, Poul H. B. Sorensen, Chairperson, Room W414 C/D, Orange County Convention Center, p. 468

Novel Androgen Receptor Antagonists, Donald J. Tindall and Edward P. Gelmann, Co-Chairpersons, Room W230 A-C, Orange County Convention Center, p. 469

Novel Insights into B-Raf Biology, David B. Solit, Chairperson, Room W224 C/D/G/H, Orange County Convention Center, p. 469

Stem Cells in Development and Tumorigenesis of the Breast, Max S. Wicha and Cathrin Braken, Co-Chairpersons, Room W224 A/B/E/F, Orange County Convention Center, p. 470
The Professional Advancement Series has long been an integral part of the AACR Annual Meeting experience, representing our dedication to the education, training, and career advancement of the next generation of cancer researchers. Several interactive and engaging Professional development and advancement opportunities will be available throughout the Annual Meeting.

For AACR members, all 2011 Professional Advancement Sessions are free, except for the Grant Writing workshop, with your Annual Meeting registration and are an added benefit of your membership. For those who are not yet AACR members, there is an additional fee of $50 ($75 for Grant Writing workshop) for attendance at each session. If you are not yet an AACR member, we strongly encourage you to join and take advantage of the many benefits of membership, which include attendance at these sessions.

Advance Registration for each session was encouraged. Space is limited and all attendees interested in participating in a session must register at the Registration Counter, in the Registration area or at the event itself.

**Physicians and Scientists as Leaders in the Fight Against Cancer**
Organized by Women in Cancer Research
Saturday, April 2, 2011, 1:00 p.m. – 4:00 p.m.
The Peabody Orlando Hotel, Plaza H
This session, designed for scientists at both the early and late stages of their careers and who have ambitions to become leaders in the perspective fields, allows attendees to learn about various leadership skills and/or leadership strengths that various successful leaders in Cancer Research have utilized on their diverse career paths.

**Getting your Research Published: Insider Views**
Saturday, April 2, 2011, 1:00 p.m. – 3:00 p.m.
The Peabody Orlando Hotel, Plaza D-H
Join AACR journal editors who evaluate thousands of original research papers each year, and gain insights for improving your next submission so that it will be accepted and published. This session will be geared toward early career scientists.

**6th Annual Undergraduate Student Caucus and Poster Competition**
Organized by the AACR Science Education Committee
Saturday, April 2, 2011, 1:00 a.m. – 5:00 p.m.
The Peabody Orlando Hotel, Windermere Y & Z
This engaging program provides an opportunity for undergraduates to learn more about the exciting research being conducted in the cancer field, hear from investigators about educational pathways and career development, explore various career options in the cancer field, and compete for prizes while presenting their research.

**14th Annual Grant Writing Workshop**
Organized by the Associate Member Council
Saturday, April 2, 2011, 12:00 p.m. – 5:00 p.m.
The Peabody Orlando Hotel, Orlando L & M
Through keynote presentations, a Mock Study Section, and roundtable discussions with scientist mentors, attendees will learn about funding opportunities and eligibility, developing effective specific aims, successfully incorporating preliminary data into grant applications, avoiding the common pitfalls and mistakes of grant writing, and become familiar with the grant review and scoring process.

**Careers in Clinical & Translational Cancer Research Roundtable**
Saturday, April 2, 2011, 5:30 p.m. – 7:45 p.m.
The Peabody Orlando Hotel, Windermere W & X
Presentations by recognized leaders in clinical and translational research have been scheduled to respond to the needs of researchers in training. These senior investigators will describe their own career experiences and the successes that helped them establish their career paths.

**The Mentor-Mentee Relationship: Establishing and Fostering Productive Relationships for Productive Careers**
Organized by the Associate Member Council
Sunday, April 3, 2011, 6:30 p.m. – 8:30 p.m.
The Peabody Orlando Hotel, Peabody O
Learn the characteristics of a successful mentor-trainee relationship, the responsibilities of a mentee and of a mentor, and strategies to enhance, improve and foster successful mentoring relationships throughout your career. The mentoring needs of postdoctoral fellows and students with families, clinician scientists, and non-US citizens will also be discussed.

**Career Mentoring Session**
Organized by Women in Cancer Research
Monday, April 4, 2011, 8:30 a.m. – 10:30 a.m.
The Peabody Orlando Hotel, Windermere W
Following a keynote address by AACR President-elect, Dr. Judy E. Garber, attendees will be able to meet, network, and learn from many of the leading senior scientists in cancer research in a roundtable format.

**Special Program for High School Students: The Conquest of Cancer and the Next Generation of Cancer Researchers**
Organized by the AACR Science Education Committee
Monday, April 4, 2011, 9:30 a.m. – 2:30 p.m.
Orange County Convention Center, W209
The Peabody Orlando Hotel, Windermere Y & Z
This exciting and interactive program provides students with the unique opportunity to network with peers while learning about cancer and the field of cancer research from established cancer investigators.

**Translational Research: Where Do You Fit In and What You Need to Succeed**
Organized by the Chemistry in Cancer Research Working Group Young Chemists Committee
Monday, April 4, 2011, 1:00 p.m. – 3:00 p.m.
The Peabody Orlando Hotel, Orlando N
During this session, attendees will explore different careers paths for scientists wanting to contribute to cancer research through cancer drug development and the opportunities in those paths including intellectual property issues, funding, and gaining and retaining employment in various settings.

**Navigating the Road to a Successful Career in Cancer Research**
Organized by the Minority in Cancer Research Committee
Monday, April 4, 2011, 6:30 p.m. – 8:30 p.m.
The Peabody Orlando Hotel, Peabody R
This dynamic program designed for investigators at all levels, but particularly early-career investigators, explores career options and issues affecting professional advancement and development through small informal discussions with senior researchers.

**Securing a Faculty Position: Building a Competitive Portfolio and Landing the Job**
Organized by the Associate Member Council
Tuesday, April 5, 2011, 1:00 p.m. – 3:00 p.m.
The Peabody Orlando Hotel, Peabody O
Attendees will be educated on the process for applying to an academic faculty position, from building a competitive academic portfolio to successfully interviewing and negotiating a start up package. Attendees will also learn how competitive their body of work is in the current academic environment.

Please email pas@aacr.org with any questions regarding the Professional Advancement Series sessions.