Contents

Highlights of This Issue 5543

SPECIAL FEATURES

Editorial

5545 Announcing the AACR Cancer Progress Report 2013
Jesse Potash and Kenneth C. Anderson

CCR Translations

5546 Better Performance of CARs Deprived of the PD-1 Brake
Aizea Morales-Kastresana, Sara Labiano, José I. Quetglas, and Ignacio Melero
See related article, p. 5636

5549 Coamplification and Cooperation: Toward Identifying Biologically Relevant Oncogenes
Guochang Huang and Bhuvanesh Singh
See related article, p. 5580

CCR Drug Updates

5552 Pertuzumab: Optimizing HER2 Blockade
Otto Metzger-Filho, Eric P. Winer, and Ian Krop

Molecular Pathways

5557 Molecular Pathways: Inflammation-Associated Nitric-Oxide Production as a Cancer-Supporting Redox Mechanism and a Potential Therapeutic Target
Elizabeth A. Grimm, Andrew G. Sikora, and Suhendar Ekmeckicglu

5564 Molecular Pathways: Human Leukocyte Antigen G (HLA-G)
Giuseppe Curigliano, Carmen Criscitiello, Lucia Gelao, and Aron Goldhirsch

Review

5572 The Winning Formulation: The Development of Paclitaxel in Pancreatic Cancer
Wen Wee Ma and Manuel Hidalgo

HUMAN CANCER BIOLOGY

5580 Integrative Genomics Analysis Identifies Candidate Drivers at 3q26-29 Amplicon in Squamous Cell Carcinoma of the Lung
Jing Wang, Jun Qian, Megan D. Hoeksema, Yong Zou, Allan V. Espinosa, S.M. Jamsheedur Rahman, Bing Zhang, and Pierre P. Massion
See related article, p. 5549

5591 Accessory Cells of the Microenvironment Protect Multiple Myeloma from T-Cell Cytotoxicity through Cell Adhesion-Mediated Immune Resistance

5602 miR-200b and miR-200c as Prognostic Factors and Mediators of Gastric Cancer Cell Progression
Hailin Tang, Min Deng, Yunyun Tang, Xinhua Xie, Jiaoli Guo, Yanan Kong, Feng Ye, Qi Su, and Xiaoming Xie

5613 Steroidogenic Enzyme AKR1C3 Is a Novel Androgen Receptor-Selective Coactivator that Promotes Prostate Cancer Growth
Muralimohan Yepuru, Zhongzhi Wu, Anand Kulkarni, Feng Yin, Christina M. Barrett, Juhyun Kim, Mitchell S. Steiner, Duane D. Miller, James T. Dalton, and Ramesh Narayanan

CANCER THERAPY: PRECLINICAL

5626 Targeting CD73 Enhances the Antitumor Activity of Anti-PD-1 and Anti-CTLA-4 mAbs
Bertrand Allard, Sandra Pommey, Mark J. Smyth, and John Stagg

5636 Anti-PD-1 Antibody Therapy Potently Enhances the Eradication of Established Tumors By Gene-Modified T Cells
Liza B. John, Christel Devaud, Connie P.M. Doang, Carmen S. Yong, Paul A. Beavis, Nicole M. Haynes, Melvyn T. Chow, Mark J. Smyth, Michael H. Kershaw, and Phillip K. Darcy
See related article, p. 5546
Identification of Lethal microRNAs Specific for Head and Neck Cancer
Marlon Lindenbergh-van der Plas, Sanne R. Martens-de Kemp, Michiel de Maaker, Wessel N. van Wieringen, Bauke Ylstra, Reuven Agami, Francesco Cerisoli, C. René Leemans, Boudewijn J.M. Braakhuis, and Ruud H. Brakenhoff

Pharmacologic Inhibition of Jak2–Stat5 Signaling By Jak2 Inhibitor AZD1480 Potently Suppresses Growth of Both Primary and Castrate-Resistant Prostate Cancer
Lei Gu, Zhiyong Liao, David T. Hoang, Ayush Dagvadorj, Shilpa Gupta, Shauna Blackmon, Elyse Ellsworth, Pooja Talati, Benjamin Leiby, Michael Zinda, Costas D. Lallas, Edouard J. Trabulski, Peter McCue, Leonard Gomella, Dennis Huszar, and Marja T. Nevalainen

CD62L as a Therapeutic Target in Chronic Lymphocytic Leukemia
Melinda Burgess, Devinder Gill, Richa Singhania, Catherine Cheung, Lynne Chambers, Brent A. Benyolds, Louise Smith, Peter Mollee, Nicholas Saunders, and Nigel AJ McMillan

RG7212 Anti-TWEAK mAb Inhibits Tumor Growth through Inhibition of Tumor Cell Proliferation and Survival Signaling and by Enhancing the Host Antitumor Immune Response
Xuefeng Yin, Leopoldo Luistro, Hua Zhong, Melissa Smith, Tom Nevins, Kathleen Schostack, Holly Hilton, Tai-An Lin, Theresa Truitt, Denise Biondi, Xiaojuan Wang, Kathryn Packman, Jim Rosinski, Wendy Berkofsky-Fessler, Juan-Ping Tang, Saumya Pant, David Geho, Suzana Vega-Harring, Mark DeMario, Hy Levitsky, and Mary Simcox

Inhibition of Tumor Growth and Metastasis in Non–Small Cell Lung Cancer by LY2801653, an Inhibitor of Several Oncokinas, Including MET

Preclinical Efficacy of the Anti-Hepatocyte Growth Factor Antibody Ficlatuzumab in a Mouse Brain Orthotopic Glioma Model Evaluated by Bioluminescence, PET, and MRI
Erik S. Mittra, Hua Fan-Minogue, Frank I. Lin, Jason Karamchandani, Venkataraman Sriram, May Han, and Sanjiv S. Gambhir

The mTOR Kinase Inhibitors, CC214-1 and CC214-2, Preferentially Block the Growth of EGFRvIII-Activated Glioblastomas

REM (Risk of Endometrial Malignancy): A Proposal for a New Scoring System to Evaluate Risk of Endometrial Malignancy
Roberto Angioli, Stella Capriglione, Alessia Aloisi, Daniela Luvero, Ester Valentina Cafà, Nella Dugo, Roberto Montera, Carlo De Cicco Nardone, Corrado Terranova, and Francesco Plotti

The G-Protein–Coupled Receptor CLR Is Upregulated in an Autocrine Loop with Adrenomedullin in Clear Cell Renal Cell Carcinoma and Associated with Poor Prognosis
Leonid L. Nikitenko, Russell Lerk, Stephen Henderson, Nischalan Pillay, Helen Turley, Daniele Generali, Sarah Gunnigham, Helen R. Morrin, Andrea Pellagatti, Margaret C.P. Rees, Adrian L. Harris, and Stephen B. Fox

Identification of Multiple Mechanisms of Resistance to Vemurafenib in a Patient with BRAFV600E-Mutated Cutaneous Melanoma Successfully Rechallenged after Progression
Emanuela Romano, Sylvain Pradervand, Alexandre Paillussou, Johann Weber, Keith Harshman, Katja Muehlethaler, Daniel Speiser, Solange Peters, Donata Rimoldi, and Olivier Michielin
**Emergence of Polyclonal FLT3 Tyrosine Kinase Domain Mutations during Sequential Therapy with Sorafenib and Sunitinib in FLT3-ITD-Positive Acute Myeloid Leukemia**


**Cumulative Genetic Risk Predicts Platinum/Taxane-Induced Neurotoxicity**

Sarah McWhinney-Glass, Stacey J. Winham, Daniel L. Hertz, Jane Yen Revollo, Jim Paul, Yijing He, Robert Brown, Alison A. Motsinger-Reif, and Howard L. McLeod; For the Scottish Gynaecological Clinical Trials Group

**Association of TP53 Mutational Status and Gender with Survival after Adjuvant Treatment for Stage III Colon Cancer: Results of CALGB 89803**


**Promoter CpG Island Methylation of Genes in Key Cancer Pathways Associates with Clinical Outcome in High-Grade Serous Ovarian Cancer**


**Impact of c-MYC Protein Expression on Outcome of Patients with Early-Stage HER2+ Breast Cancer Treated with Adjuvant Trastuzumab NCCTG (Alliance) N9831**


AC icon indicates Author Choice

CME icon indicates that this article is available for continuing medical education credit at http://cme.aacrjournals.org

For more information please visit www.aacrjournals.org

**ABOUT THE COVER**

The cover shows a section from the prostate of a patient with Gleason sum 7 prostate cancer. Duolink proximity ligation assay in the section shows strong interaction between AR and AKR1C3 (red). Nucleus was counterstained with DAPI and imaged using a fluorescent microscope. For details, see the article by Yepuru and colleagues on page 5613 of this issue.