SPECIAL FEATURES

CCR Translations

595
New Treatments for Rhabdomyosarcoma: The Importance of Target Practice
Frederic G. Barr
See article p. 796

Molecular Pathways

598
Molecular Pathways: Targeting Mechanisms of Asbestos and Erionite Carcinogenesis in Mesothelioma
Michele Carbone and Haining Yang

CCR Focus

606
A Millennium Goal for Cancer
Susan E. Bates

607
Overview of the AACR Clinical and Translational Cancer Research Think Tank Meeting
Kenneth C. Anderson and Raymond N. DuBois

612
Impact of Genomics on Personalized Cancer Medicine
Carlos L. Arteaga and José Baselga

619
Making Personalized Cancer Medicine a Reality: Challenges and Opportunities in the Development of Biomarkers and Companion Diagnostics
David R. Parkinson, Bruce E. Johnson, and George W. Sledge

625
Genetically Modified Mouse Models for Biomarker Discovery and Preclinical Drug Testing
Raju Kucherlapati

631
Imaging: Strategies, Controversies, and Opportunities
Ronald Blasberg and David Piwnicka-Worms

638
Reports from the 2010 Clinical and Translational Cancer Research Think Tank Meeting: Design Strategies for Personalized Therapy Trials
Donald A. Berry, Roy S. Herbst, and Eric H. Rubin

Review

645
Cancer Dormancy: A Model of Early Dissemination and Late Cancer Recurrence
David Páez, Melissa J. Labonte, Pierre Bohanes, Wu Zhang, Leonor Benhaim, Yan Ning, Takeru Wakatsuki, Fotios Loupakis, and Heinz-Josef Lenz

HUMAN CANCER BIOLOGY

654
Notch Signaling Promotes Growth and Invasion in Uveal Melanoma

666
Modeling a Lethal Prostate Cancer Variant with Small-Cell Carcinoma Features
Vassiliki Tzelepi, Jie Xin Zhang, Jing-Fang Lu, Brittany Kleb, Guanglin Wu, Xinhai Wan, Anh Hoang, Eleni Efthathiou, Kanishka Sircar, Nora M. Navone, Patricia Troncoso, Shoudan Liang, Christopher J. Logothetis, Sankar N. Maiti, and Ana M. Aparicio

678
Expansion of a CD8+ PD-L1+ Replicative Senescence Phenotype in Early Stage CLL Patients Is Associated with Inverted CD4:CD8 Ratios and Disease Progression
Claudia Nunes, Ryan Wong, Malcolm Mason, Chris Fegan, Stephen Man, and Chris Pepper

700
Genome-Wide CpG Island Profiling of Intraductal Papillary Mucinous Neoplasms of the Pancreas
Seung-Mo Hong, Noriyuki Omura, Audrey Vincent, Ang Li, Spencer Knight, Jun Yu, Ralph H. Huban, and Michael Goggins
713 Upregulated IL-19 in Breast Cancer Promotes Tumor Progression and Affects Clinical Outcome
Chung-Hsi Hsing, Hung-Chi Cheng, Yu-Hsiang Hsu, Chien-Hui Chan, Ching-Hua Yeh, Chien-Feng Li, and Ming-Shi Chang

726 Activation of β-Catenin Signaling in Androgen Receptor–Negative Prostate Cancer Cells
Xinhai Wan, Jie Liu, Jing-Fang Lu, Vassiliki Tzelepi, Jun Yang, Michael W. Starbuck, Lixia Diao, Jing Wang, Eleni Efthathiou, Elba S. Vazquez, Patricia Troncoso, Sankar N. Maity, and Nora M. Navone

737 MiR-1 Downregulation Cooperates with MACC1 in Promoting MET Overexpression in Human Colon Cancer
Cristina Migliore, Valentina Martin, Vera P. Leoni, Angelo Restivo, Luigi Atzori, Annalisa Petrelli, Claudio Isella, Luigi Zorcolo, Ivana Sarotto, Giuseppe Casula, Paolo M. Cosmolé, Amedeo Columbano, and Silvia Giordano

748 Oncogene Mutation Profiling of Pediatric Solid Tumors Reveals Significant Subsets of Embryonal Rhabdomyosarcoma and Neuroblastoma with Mutated Genes in Growth Signaling Pathways
Neerav Shukla, Nabahet Ameur, Ismail Yilmaz, Khedoudja Nafa, Chyau-Yueh Lau, Angela Marchetti, Laetitia Borsu, Frederic G. Barr, and Marc Ladanyi

758 Selective Tumor Hypoxia Targeting by Hypoxia-Activated Prodrug TH-302 Inhibits Tumor Growth in Preclinical Models of Cancer
Jessica D. Sun, Qian Liu, Jingli Wang, Dharmendra Ablivalia, Damien Ferraro, Yan Wang, Jian-Xin Duan, W. Steve Ammons, John G. Curd, Mark D. Matteucci, and Charles P. Hart

763 Modulation of NOXA and MCL-1 as a Strategy for Sensitizing Melanoma Cells to the BH3-Mimetic ABT-737
Keryn M. Lucas, Nethia Mohana-Kumaran, Diana Lau, Xu Dong Zhang, Peter Hersey, David C. Huang, Wolfgang Weninger, Nikolas K. Haass, and John D. Allen

771 Omental Adipose Tissue–Derived Stromal Cells Promote Vascularization and Growth of Endometrial Tumors

815 External Validation of Diagnostic Models to Estimate the Risk of Malignancy in Adnexal Masses
Pauline Lagarde, Gaëlle Pétrot, Audrey Kauffmann, Céline Brulard, Valérie Dapremont, Isabelle Hostein, Agnès Neuville, Agnieszka Wozniak, Raf Sciot, Patrick Schoffski, Alain Aurias, Jean-Michel Coindre, Maria Debiec-Rychter, and Frédéric Chibon

808 Methylated RASSF1a Is the First Specific DNA Marker for Minimal Residual Disease Testing in Neuroblastoma
Janine Stutterheim, Fatima Ait Ichou, Emmy den Ouden, Rogier Versteeg, Hui N. Caron, Godelieve A.M. Tytgat, and C. Ellen van der Schoot

826 Mitotic Checkpoints and Chromosome Instability Are Strong Predictors of Clinical Outcome in Gastrointestinal Stromal Tumors
Pauline Lagarde, Géraldine Pérrot, Audrey Kauffmann, Céline Brulard, Valérie Dapremont, Isabelle Hostein, Agnès Neuville, Agnieszka Wozniak, Raf Sciot, Patrick Schoffski, Alain Aurias, Jean-Michel Coindre, Maria Debiec-Rychter, and Frédéric Chibon

IMAGING, DIAGNOSIS, PROGNOSIS

808 Methylated RASSF1a Is the First Specific DNA Marker for Minimal Residual Disease Testing in Neuroblastoma
Janine Stutterheim, Fatima Ait Ichou, Emmy den Ouden, Rogier Versteeg, Hui N. Caron, Godelieve A.M. Tytgat, and C. Ellen van der Schoot

815 External Validation of Diagnostic Models to Estimate the Risk of Malignancy in Adnexal Masses
Caroline Van Holsbeke, Ben Van Calster, Tom Bourne, Silvia Ajossa, Antonia C. Testa, Stefano Guerriero, Robert Fruscio, Andrea Alberto Lissoni, Artur Czekierdowski, Luca Savelli, Sabine Van Huffel, Lil Valentin, and Dirk Timmerman

826 Mitotic Checkpoints and Chromosome Instability Are Strong Predictors of Clinical Outcome in Gastrointestinal Stromal Tumors
Pauline Lagarde, Géraldine Pérrot, Audrey Kauffmann, Céline Brulard, Valérie Dapremont, Isabelle Hostein, Agnès Neuville, Agnieszka Wozniak, Raf Sciot, Patrick Schoffski, Alain Aurias, Jean-Michel Coindre, Maria Debiec-Rychter, and Frédéric Chibon
ABOUT THE COVER

A section of endometrial tumor xenografted in a mouse injected with Wi38 fibroblasts that fail to support tumor vascularization. Immunofluorescence analysis with antibodies against CD31 (green) and Ki67 (red) shows lack of CD31-positive vasculature and Ki67-positive proliferating cells exclusively in the peripheral tumor layer (bottom), whereas injection of omental adipose stromal cells increases tumor proliferation and vascularization. For details, see the article by Klopp and colleagues on page 771 of this issue.