Highlights of This Issue 3097

SPECIAL FEATURES

CCR 20th Anniversary Commentary

3099  CCR 20th Anniversary Commentary: Chimeric Antigen Receptors—From Model T to the Tesla
Patrick Hwu

CCR Translations

3102  Does It MEK a Difference? Understanding Immune Effects of Targeted Therapy
Zachary A. Cooper, Alexandre Reuben, Jacob Austin-Breneman, and Jennifer A. Wargo
See related article, p. 3140

3105  Growth Factor Receptor Fusions Predict Therapeutic Sensitivity
Manmeet S. Ahluwalia and Jeremy N. Rich
See related article p. 3307

Molecular Pathways

3108  Molecular Pathways: Targeting Tumor-Infiltrating Myeloid-Derived Suppressor Cells for Cancer Therapy
Diletta Di Mitri, Alberto Toso, and Andrea Alimonti

Reviews

3113  Boosting Cancer Immunotherapy with Anti-CD137 Antibody Therapy
Atsushi Yonezawa, Suparna Dutt, Cariad Chester, Jeewon Kim, and Holbrook E. Kohrt

3121  Nanotechnology: Future of Oncotherapy
Kshipra M. Gharpure, Sherry Y. Wu, Chun Li, Gabriel Lopez-Berestein, and Anil K. Sood

CANCER THERAPY: CLINICAL

3131  Immune Recovery after Allogeneic Hematopoietic Stem Cell Transplantation Following Flu-TBI versus TLI-ATG Conditioning
Muriel Hannon, Yves Beguin, Grégoire Ehr, Sophie Servais, Laurence Seidel, Carlos Graux, Johan Maertens, Tessa Kerre, Coline Daune, Muriel de Bock, Marianne Fillet, Aurélie Ory, Evelyne Willems, André Godot, Stéphanie Humbert-Baron, and Frédéric Baron

3140  PD-L1 Expression and Tumor-Infiltrating Lymphocytes Define Different Subsets of MAPK Inhibitor–Treated Melanoma Patients
See related commentary, p. 3162

3149  Phase I Hepatic Immunotherapy for Metastases Study of Intra-Arterial Chimeric Antigen Receptor–Modified T-cell Therapy for CEA+ Liver Metastases

3160  Phase I Trial of the Pan-PI3K Inhibitor Pilaralisib (SAR245408/XL147) in Patients with Chronic Lymphocytic Leukemia (CLL) or Relapsed/Refractory Lymphoma
Jennifer R. Brown, Matthew S. Davids, Jordi Rodon, Pau Abrisqueta, Siddha N. K asar, Joanne Lager, Jason Jiang, Coumaran Egile, and Fami lij T. Awan

3170  Correlation between Prostate-Specific Antigen Kinetics and Overall Survival in Abiraterone Acetate–Treated Castration-Resistant Prostate Cancer Patients
Xu S. Xu, Charles J. Ryan, Kim Stuyckens, Matthew R. Smith, Fred Saad, Thomas W. Griffith, Yous C. Park, Margaret K. Yu, An Vermeulen, Il tao Poggesi, and Partha Nandy

3178  Biologic Activity of Autologous, Granulocyte–Macrophage Colony-Stimulating Factor Secreting Alveolar Soft Part Sarcoma and Clear Cell Sarcoma Vaccines
John M. Goldberg, David E. Fisher, George D. Demetri, Donna Neuberg, Stephen A. Allopia, Catia Fonseca, Yukoh Nakazaki, David Nem er, Chandrajit P. Raut, Suzanne George, Jeffrey A. Morgan, Andrew J. Wagner, Gordon J. Freeman, Jerome Ritz, Cecilia Lezcano, Martin Mihm, Christine Canning, F. Stephen Hodi, and Glenn D ranoff

PERSONALIZED MEDICINE AND IMAGING

3187  Multimerin-1 (MMRN1) as Novel Adverse Marker in Pediatric Acute Myeloid Leukemia: A Report from the Children’s Oncology Group
Detection and Dynamic Changes of EGFR Mutations from Circulating Tumor DNA as a Predictor of Survival Outcomes in NSCLC Patients Treated with First-line Intercalated Erlotinib and Chemotherapy

Tony Mok, Yi-Long Wu, Jin Soo Lee, Chong-Jen Yu, Vinorelbeptin, Jennifer Sandovall-Tan, Guiia Ladrera, Sumitra Thongprasert, Vichien Srimuninnimit, Meilin Liao, Yunzhong Zhu, Caicun Zhou, Fatima Fuerte, Benjamin Margono, Wei Wen, Julie Tsai, Matt Truman, Barbara Klughammer, David S. Shames, and Lin Wu

CANCER THERAPY: PRECLINICAL

Targeting PI3K/mTOR Signaling Displays Potent Antitumor Efficacy against Nonfunctioning Pituitary Adenomas

Misu Lee, Tobias Wiedemann, Claudia Gross, Ines Leinhauser, Federico Roncaroli, Rickmer Braren, and Natalia S. Pellegrata

Systematic Screening Identifies Dual PI3K and mTOR Inhibition as a Conserved Therapeutic Vulnerability in Osteosarcoma


HDAC Inhibition Overcomes Acute Resistance to MEK Inhibition in BRAF-Mutant Colorectal Cancer by Downregulation of c-FLIPL

Robbie Carson, Basak Celikci, Cathy Fenning, Arman Javadi, Nyree Crawford, Lucia Perez-Carbonell, Mark Lawler, Daniel B. Longley, Patrick G. Johnston, and Sandra Van Schaeybroeck

Targeting Glutamine Metabolism in Breast Cancer with Aminooxyacetate

Preethi Korangath, Wei Wen Teo, Helen Sadik, Liangfeng Han, Noriko Mori, Charlotte M. Huijts, Horrie Wildes, Santosh Bharti, Zhe Zhang, Cesar A. Santa-Maria, Hualing Tsai, Chi V. Dang, Vered Stearns, Zaver M. Bhujwalla, and Saraswati Sukumar

The Impact of Macrophage- and Microglia-Secreted TNFα on Oncolytic HSV-1 Therapy in the Glioblastoma Tumor Microenvironment


XPO1/CRM1 Inhibition Causes Antitumor Effects by Mitochondrial Accumulation of eIF5A

Takahito Miyake, Sunila Pradeep, Sherry Y. Wu, Rajesha Rupainooole, Behrouz Zand, Yunfei Wen, Khisph M. Gharpure, Archana S. Nagaraja, Wei Hu, Min Soon Cho, Heather J. Dalton, Rebecca A. Previs, Morgan L. Taylor, Takeshi Hisamatsu, Yu Kang, Tao Liu, Sharon Shacham, Dilara McCauley, David H. Hawke, John E. Wiktowowicz, Robert L. Coleman, and Anil K. Sood

An Antibody–Drug Conjugate Directed against Lymphocyte Antigen 6 Complex, Locus E (LY6E) Provides Robust Tumor Killing in a Wide Range of Solid Tumor Malignancies

Jyoti Asundi, Lisa Crocker, Jarrod Tremayne, Peter Chang, Chie Sakana, Joshua Tanguay, Susan Spencer, Streevada Chalasani, Elizabeth Luis, Karen Gascoigne, Rupal Desai, Rajiv Raja, Brad A. Friedman, Peter M. Haverty, Paul Polakis, and Ron Firestein

Targeting GLUTAMINE Metabolism in Breast Cancer with Aminooxyacetate

Preethi Korangath, Wei Wen Teo, Helen Sadik, Liangfeng Han, Noriko Mori, Charlotte M. Huijts, Horrie Wildes, Santosh Bharti, Zhe Zhang, Cesar A. Santa-Maria, Hualing Tsai, Chi V. Dang, Vered Stearns, Zaver M. Bhujwalla, and Saraswati Sukumar

The Impact of Macrophage- and Microglia-Secreted TNFα on Oncolytic HSV-1 Therapy in the Glioblastoma Tumor Microenvironment


XPO1/CRM1 Inhibition Causes Antitumor Effects by Mitochondrial Accumulation of eIF5A

Takahito Miyake, Sunila Pradeep, Sherry Y. Wu, Rajesha Rupainooole, Behrouz Zand, Yunfei Wen, Khisph M. Gharpure, Archana S. Nagaraja, Wei Hu, Min Soon Cho, Heather J. Dalton, Rebecca A. Previs, Morgan L. Taylor, Takeshi Hisamatsu, Yu Kang, Tao Liu, Sharon Shacham, Dilara McCauley, David H. Hawke, John E. Wiktowowicz, Robert L. Coleman, and Anil K. Sood

An Antibody–Drug Conjugate Directed against Lymphocyte Antigen 6 Complex, Locus E (LY6E) Provides Robust Tumor Killing in a Wide Range of Solid Tumor Malignancies

Jyoti Asundi, Lisa Crocker, Jarrod Tremayne, Peter Chang, Chie Sakana, Joshua Tanguay, Susan Spencer, Streevada Chalasani, Elizabeth Luis, Karen Gascoigne, Rupal Desai, Rajiv Raja, Brad A. Friedman, Peter M. Haverty, Paul Polakis, and Ron Firestein

Targeting GLUTAMINE Metabolism in Breast Cancer with Aminooxyacetate

Preethi Korangath, Wei Wen Teo, Helen Sadik, Liangfeng Han, Noriko Mori, Charlotte M. Huijts, Horrie Wildes, Santosh Bharti, Zhe Zhang, Cesar A. Santa-Maria, Hualing Tsai, Chi V. Dang, Vered Stearns, Zaver M. Bhujwalla, and Saraswati Sukumar

The Impact of Macrophage- and Microglia-Secreted TNFα on Oncolytic HSV-1 Therapy in the Glioblastoma Tumor Microenvironment


XPO1/CRM1 Inhibition Causes Antitumor Effects by Mitochondrial Accumulation of eIF5A

Takahito Miyake, Sunila Pradeep, Sherry Y. Wu, Rajesha Rupainooole, Behrouz Zand, Yunfei Wen, Khisph M. Gharpure, Archana S. Nagaraja, Wei Hu, Min Soon Cho, Heather J. Dalton, Rebecca A. Previs, Morgan L. Taylor, Takeshi Hisamatsu, Yu Kang, Tao Liu, Sharon Shacham, Dilara McCauley, David H. Hawke, John E. Wiktowowicz, Robert L. Coleman, and Anil K. Sood

A Novel Anti-CD22 Anthracycline-Based Antibody–Drug Conjugate (ADC) That Overcomes Resistance to Auristatin-Based ADCs

Shang-Fan Yu, Bing Zheng, MaryAnn Go, Jeff Lau, Susan Spencer, Helga Baab, Robert Sotario, Suchit Jhunjhunwala, Robert Cohen, Michele Caruso, Paul Polakis, John Flygare, and Andrew G. Polson

Detection, Characterization, and Inhibition of FGFR-TACC Fusions in IDH Wild-type Glioma

Anna Luisa Di Stefano, Alessandra Fucci, Veronique Frattini, Marianne Labussiere, Karina Mokhtari, Pietro Zoppioli, Yannick Marie, Aurelie Bruno, Blandine Boiselier, Marine Giry, Julien Savatovsky, Mehdi Touat, Hayat Belaid, Aurelie Kamoun, Ahmed Idibali, Caroline Houillier, Feng R. Luo, Jean-Charles Soria, Josep Tabernero, Marica Eoli, Rosina Paterra, Stephen Yip, Kevin Petrecca, Jennifer A. Chan, Gaetano Finocchiaro, Anna Lasorella, Marc Sanson, and Antonio Iavarone

See related commentary, p. 3105

Head-to-Head Comparison and Evaluation of 92 Plasma Protein Biomarkers for Early Detection of Colorectal Cancer in a True Screening Setting

Hongda Chen, Manuela Zucknick, Simone Werner, Phillip Knebel, and Hermann Brenner

Detection, Characterization, and Inhibition of FGFR-TACC Fusions in IDH Wild-type Glioma

Anna Luisa Di Stefano, Alessandra Fucci, Veronique Frattini, Marianne Labussiere, Karina Mokhtari, Pietro Zoppioli, Yannick Marie, Aurelie Bruno, Blandine Boiselier, Marine Giry, Julien Savatovsky, Mehdi Touat, Hayat Belaid, Aurelie Kamoun, Ahmed Idibali, Caroline Houillier, Feng R. Luo, Jean-Charles Soria, Josep Tabernero, Marica Eoli, Rosina Paterra, Stephen Yip, Kevin Petrecca, Jennifer A. Chan, Gaetano Finocchiaro, Anna Lasarella, Marc Sanson, and Antonio Iavarone

See related commentary, p. 3105

Head-to-Head Comparison and Evaluation of 92 Plasma Protein Biomarkers for Early Detection of Colorectal Cancer in a True Screening Setting

Hongda Chen, Manuela Zucknick, Simone Werner, Phillip Knebel, and Hermann Brenner
Upregulation of MAPK Negative Feedback Regulators and RET in Mutant ALK Neuroblastoma: Implications for Targeted Treatment


POLE Proofreading Mutations Elicit an Antitumor Immune Response in Endometrial Cancer


Genetic Modulation of Neurocognitive Function in Glioma Patients

Yanhong Liu, Renke Zhou, Erik P. Sulman, Michael E. Scheurer, Nicholas Boehling, Georgina N. Armstrong, Spiridon Tsavachidis, Fu-Wen Liang, Carol J. Etzel, Charles A. Conrad, Mark R. Gilbert, Terri S. Armstrong, Melissa L. Bondy, and Jeffrey S. Wefel

Correction: Circulating Tumor Cell Analysis in Metastatic Triple-Negative Breast Cancers

Correction: A Phase II Study of Pazopanib in Asian Patients with Recurrent/Metastatic Nasopharyngeal Carcinoma

Correction: CTLA4 Blockade Broadens the Peripheral T-cell Receptor Repertoire

The heatmap shows expression of immune-related genes in endometrial cancers from the TCGA series. POLE proofreading-mutant tumors display evidence of a robust cytotoxic T-cell response. For details, see the article by van Gool and colleagues on page 3347 of this issue.
Clinical Cancer Research

21 (14)


Updated version
Access the most recent version of this article at:
http://clincancerres.aacrjournals.org/content/21/14

E-mail alerts
Sign up to receive free email-alerts related to this article or journal.

Reprints and Subscriptions
To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions
To request permission to re-use all or part of this article, contact the AACR Publications Department at permissions@aacr.org.