

Highlights of This Issue 2413

SPECIAL FEATURES

CCR 20th Anniversary Commentary

- 2415** CCR 20th Anniversary Commentary: Determining a Pharmacokinetic/Pharmacodynamic Relationship for Sunitinib—A Look Back
Dirk B. Mendel, Julie M. Cherrington, and A. Douglas Laird

CCR Translations

- 2418** RB and Prognosis in Resected Lung Adenocarcinoma
Eric A. Collisson
See related article, p. 2613
- 2421** Can Circulating Tumor Cells Predict Resistance in Metastatic Breast Cancer?
Aju Mathew, Adam M. Brufsky, and Nancy E. Davidson
See related article, p. 2487

CCR New Strategies

- 2424**  New Strategies in Melanoma: Entering the Era of Combinatorial Therapy
Ryan J. Sullivan and Keith T. Flaherty


CCR Perspectives in Drug Approval

- 2436** FDA Approval: Ceritinib for the Treatment of Metastatic Anaplastic Lymphoma Kinase-Positive Non-Small Cell Lung Cancer
Sean Khozin, Gideon M. Blumenthal, Lijun Zhang, Shenghui Tang, Margaret Brower, Emily Fox, Whitney Helms, Ruby Leong, Pengfei Song, Yuzhuo Pan, Qi Liu, Ping Zhao, Hong Zhao, Donghao Lu, Zhe Tang, Ali Al Hakim, Karen Boyd, Patricia Keegan, Robert Justice, and Richard Pazdur

Molecular Pathways

- 2440** Molecular Pathways: Targeting Cellular Energy Metabolism in Cancer via Inhibition of SLC2A1 and LDHA
Aik T. Ooi and Brigitte N. Gomperts

Review

- 2445**  Eribulin Mesylate: Mechanism of Action of a Unique Microtubule-Targeting Agent
Nicholas F. Dybdal-Hargreaves, April L. Risinger, and Susan L. Mooberry

CANCER THERAPY: CLINICAL

- 2453** Rilotumumab Exposure-Response Relationship in Patients with Advanced or Metastatic Gastric Cancer
Sameer Doshi, Per Olsson Gisleskog, Yilong Zhang, Min Zhu, Kelly S. Oliner, Elwyn Loh, and Juan Jose Perez Ruixo
- 2462** Safety and Pharmacokinetics/Pharmacodynamics of the First-in-Class Dual Action HER3/EGFR Antibody MEHD7945A in Locally Advanced or Metastatic Epithelial Tumors
Dejan Juric, Rodrigo Dienstmann, Andres Cervantes, Manuel Hidalgo, Wells Messersmith, George R. Blumenschein Jr, Josep Tabernero, Desamparados Roda, Antonio Calles, Antonio Jimeno, Xiaodong Wang, Sandra Sanabria Bohórquez, Cecilia Leddy, Catherine Littman, Amy V. Kapp, David S. Shames, Elicia Penuel, Lukas C. Amler, Andrea Pirzkall, and José Baselga
- 2471** Angiotensin System Inhibitors and Survival Outcomes in Patients with Metastatic Renal Cell Carcinoma
Rana R. McKay, Gustavo E. Rodriguez, Xun Lin, Marina D. Kaymakalan, Ole-Petter R. Hamnvik, Venkata S. Sabbiseti, Rupal S. Bhatt, Ronit Simantov, and Toni K. Choueiri
- 2480** Phase I Trial of Arginine Deprivation Therapy with ADI-PEG 20 Plus Docetaxel in Patients with Advanced Malignant Solid Tumors
Benjamin K. Tomlinson, James A. Thomson, John S. Bomalaski, Monica Diaz, Taiwo Akande, Nichole Mahaffey, Tianhong Li, Mrinal P. Dutia, Karen Kelly, I-Yeh Gong, Thomas Semrad, David R. Gandara, Chong-Xian Pan, and Primo N. Lara Jr

Table of Contents

PERSONALIZED MEDICINE AND IMAGING

- 2487** Development of Circulating Tumor Cell-Endocrine Therapy Index in Patients with Hormone Receptor-Positive Breast Cancer
Costanza Paoletti, Maria C. Muñoz, Dafydd G. Thomas, Kent A. Griffith, Kelley M. Kidwell, Nahomi Tokudome, Martha E. Brown, Kimberly Aung, M. Craig Miller, Dorothy L. Blossom, Anne F. Schott, N. Lynn Henry, James M. Rae, Mark C. Connelly, David A. Chianese, and Daniel F. Hayes
See related commentary, p. 2421
- 2499** NRF2 Pathway Activation and Adjuvant Chemotherapy Benefit in Lung Squamous Cell Carcinoma
David W. Cescon, Desmond She, Shingo Sakashita, Chang-Qi Zhu, Melania Pintilie, Frances A. Shepherd, and Ming-Sound Tsao
- 2506** Evaluation of Diffusion-Weighted Magnetic Resonance Imaging for Follow-up and Treatment Response Assessment of Lymphoma: Results of an 18F-FDG-PET/CT-Controlled Prospective Study in 64 Patients
Marius E. Mayerhoefer, Georgios Karanikas, Kurt Kletter, Helmut Prosch, Barbara Kiesewetter, Cathrin Skrabs, Edit Porpaczy, Michael Weber, Thomas Knogler, Christian Sillaber, Ulrich Jaeger, Ingrid Simonitsch-Klupp, Philipp Ubl, Leonhard Müllauer, Werner Dolak, Julius Lukas, and Markus Raderer
- 2514** Treatment Planning and Fracture Prediction in Patients with Skeletal Metastasis with CT-Based Rigidity Analysis
Ara Nazarian, Vahid Entezari, David Zurakowski, Nathan Calderon, John A. Hipp, Juan C. Villa-Camacho, Patrick P. Lin, Felix H. Cheung, Albert J. Aboulafla, Robert Turcotte, Megan E. Anderson, Mark C. Gebhardt, Edward Y. Cheng, Richard M. Terek, Michael Yaszemski, Timothy A. Damron, and Brian D. Snyder
- 2520** Optimal Patient Selection for Trastuzumab Treatment in HER2-Positive Advanced Gastric Cancer
Chan-Young Ock, Keun-Wook Lee, Jin Won Kim, Jin-Soo Kim, Tae-Yong Kim, Kyung-Hun Lee, Sae-Won Han, Seock-Ah Im, Tae-You Kim, Woo Ho Kim, Yung-Jue Bang, and Do-Youn Oh

- 2530** *PIK3CA* Pathway Mutations Predictive of Poor Response Following Standard Radiochemotherapy ± Cetuximab in Cervical Cancer Patients
Anne de la Rochefordiere, Maud Kamal, Anne Floquet, Laurence Thomas, Peter Petrow, Thierry Petit, Marius Pop, Michel Fabbro, Christine Kerr, Florence Joly, Emmanuel Sevin, Sophie Maillard, Hervé Curé, Béatrice Weber, Claire Brunaud, Mathieu Minsat, Laurence Gonzague, Dominique Berton-Rigaud, Maud Aumont, Laurence Gladieff, Karine Peignaux, Virginie Bernard, Quentin Leroy, Ivan Bieche, Audrey Margogne, AnaTereza Nadan, Virginie Fourchette, Alhassane Diallo, Benard Asselain, Corine Plancher, Sébastien Armanet, Philippe Beuzeboc, and Suzy M. Scholl

CANCER THERAPY: PRECLINICAL

- 2538** Targeting the Spleen Tyrosine Kinase with Fostamatinib as a Strategy against Waldenström Macroglobulinemia
Isere Kuitase, Veerabhadran Baladandayuthapani, Heather Y. Lin, Sheeba K. Thomas, Chad C. Bjorklund, Donna M. Weber, Michael Wang, Jatin J. Shah, Xing-Ding Zhang, Richard J. Jones, Stephen M. Ansell, Guang Yang, Steven P. Treon, and Robert Z. Orlowski
- 2546** Dendritic Cells in Irradiated Mice Trigger the Functional Plasticity and Antitumor Activity of Adoptively Transferred Tc17 Cells via IL12 Signaling
Jacob S. Bowers, Michelle H. Nelson, Sreenath Kundimi, Stefanie R. Bailey, Logan W. Huff, Kristina M. Schwartz, David J. Cole, Mark P. Rubinstein, and Chrystal M. Paulos
- 2558** Elucidation of Acquired Resistance to Bcl-2 and MDM2 Inhibitors in Acute Leukemia *In Vitro* and *In Vivo*
C. Gianna Hoffman-Luca, Daniel Ziazadeh, Donna McEachern, Yujun Zhao, Wei Sun, Laurent Debussche, and Shaomeng Wang

BIOLOGY OF HUMAN TUMORS

- 2569** ERG/AKR1C3/AR Constitutes a Feed-Forward Loop for AR Signaling in Prostate Cancer Cells
Katelyn Powell, Louie Semaan, M. Katie Conley-LaComb, Irfan Asangani, Yi-Mi Wu, Kevin B. Ginsburg, Julia Williams, Jeremy A. Squire, Krishna R. Maddipati, Michael L. Cher, and Sreenivasa R. Chinni

Table of Contents

- 2580** The Hippo Coactivator YAP1 Mediates EGFR Overexpression and Confers Chemoresistance in Esophageal Cancer
Shumei Song, Soichiro Honjo, Jiankang Jin, Shih-Shin Chang, Ailing W. Scott, Qiongrong Chen, Neda Kalhor, Arlene M. Correa, Wayne L. Hofstetter, Constance T. Albarracin, Tsung-Teh Wu, Randy L. Johnson, Mien-Chie Hung, and Jaffer A. Ajani
- 2591** Development and Clinical Validation of an *In Situ* Biopsy-Based Multimarker Assay for Risk Stratification in Prostate Cancer
 Peter Blume-Jensen, David M. Berman, David L. Rimm, Michail Shipitsin, Mathew Putzi, Thomas P. Nifong, Clayton Small, Sibgat Choudhury, Teresa Capela, Louis Coupal, Christina Ernst, Aeron Hurley, Alex Kaprelyants, Hua Chang, Eldar Giladi, Julie Nardone, James Duniyak, Massimo Loda, Eric A. Klein, Cristina Magi-Galluzzi, Mathieu Latour, Jonathan I. Epstein, Philip Kantoff, and Fred Saad
- 2601** AXL Is a Logical Molecular Target in Head and Neck Squamous Cell Carcinoma
Toni M. Brand, Mari Iida, Andrew P. Stein, Kelsey L. Corrigan, Cara M. Braverman, John P. Coan, Hannah E. Pearson, Harsh Bahrar, Tyler L. Fowler, Bryan P. Bednarz, Sandeep Saha, David Yang, Parkash S. Gill, Mark W. Lingen, Vassiliki Saloura, Victoria M. Villafior, Ravi Salgia, Randall J. Kimple, and Deric L. Wheeler
- 2613** Genomic Alterations in the RB Pathway Indicate Prognostic Outcomes of Early-Stage Lung Adenocarcinoma
 Seongmin Choi, Hyeong Ryul Kim, Chang Ohk Sung, Jongkyu Kim, Sukjun Kim, Sung-Min Ahn, Chang-min Choi, Sung-Min Chun, Eun Kyung Choi, Sang-We Kim, Yong-Hee Kim, Ji-Young Lee, Joon Seon Song, Deokhoon Kim, Farhan Haq, Sun Young Lee, Jong-eun Lee, Wang-rim Jung, Hye Yoon Jang, Eunho Yang, Charles Lee, Eunsil Yu, Gu Kong, Daehyun Baek, and Se Jin Jang
See related commentary, p. 2418
- 2624** Contribution of Beta-HPV Infection and UV Damage to Rapid-Onset Cutaneous Squamous Cell Carcinoma during BRAF-Inhibition Therapy
Daniel N. Cohen, Steven K. Lawson, Aaron C. Shaver, Liping Du, Harrison P. Nguyen, Qin He, Douglas B. Johnson, Wilfred A. Lumbang, Brent R. Moody, James L. Prescott, Pranil K. Chandra, Alan S. Boyd, Jeffrey P. Zwerner, Jason B. Robbins, Stephen K. Tyring, Peter L. Rady, James D. Chappell, Yu Shyr, Jeffrey R. Infante, and Jeffrey A. Sosman
- 2635** Stromal CD8⁺ T-cell Density—A Promising Supplement to TNM Staging in Non-Small Cell Lung Cancer
 Tom Donnem, Sigurd M. Hald, Ema-Elise Paulsen, Elin Richardsen, Samer Al-Saad, Thomas K. Kilvaer, Odd Terje Brustugun, Aslaug Helland, Marius Lund-Iversen, Mette Poehl, Karen Ege Olsen, Henrik J. Ditzel, Olfred Hansen, Khalid Al-Shibli, Yury Kiselev, Torkjel M. Sandanger, Sigve Andersen, Francesco Pezzella, Roy M. Bremnes, and Lill-Tove Busund
- 2644** Hotspot Mutation Panel Testing Reveals Clonal Evolution in a Study of 265 Paired Primary and Metastatic Tumors
Rashmi S. Goswami, Keyur P. Patel, Rajesh R. Singh, Funda Meric-Bernstam, E. Scott Kopetz, Vivek Subbiah, Ricardo H. Alvarez, Michael A. Davies, Kausar J. Jabbar, Sinchita Roy-Chowdhuri, Alexander J. Lazar, L. Jeffrey Medeiros, Russell R. Broaddus, Rajyalakshmi Luthra, and Mark J. Routbort

CORRECTIONS

- 2652** Correction: Validation of a Standardized Method for Enumerating Circulating Endothelial Cells and Progenitors: Flow Cytometry and Molecular and Ultrastructural Analyses
- 2653** Correction: Gene Signature–Guided Dasatinib Therapy in Metastatic Breast Cancer

 AC icon indicates Author Choice

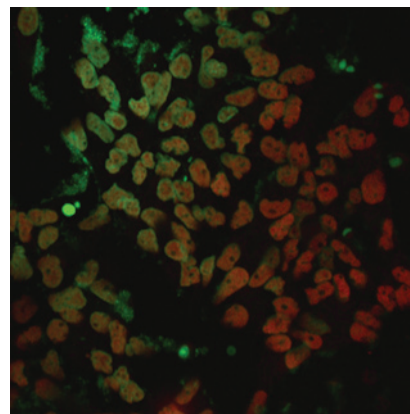
 CME icon indicates that this article is available for continuing medical education credit at <http://cme.aacrjournals.org>

For more information please visit www.aacrjournals.org

Table of Contents

ABOUT THE COVER

The cover shows VCaP prostate cancer cells stained with the androgen receptor for nuclear localization. The authors found that 5 α -Adione treatment results in nuclear localization of the androgen receptor in VCaP cells. For details, see the article by Powell and colleagues on page 2569 of this issue.



Clinical Cancer Research

21 (11)

Clin Cancer Res 2015;21:2413-2653.

Updated version Access the most recent version of this article at:
<http://clincancerres.aacrjournals.org/content/21/11>

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, use this link <http://clincancerres.aacrjournals.org/content/21/11>.
Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.