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- **4024** Personalized Medicine: Through the Looking Glass of Functional Imaging
  - Raymond J. Hohl
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**CCR New Strategies**

- **4027** New Strategies for Carcinoma of Unknown Primary: The Role of Tissue-of-Origin Molecular Profiling
  - Gauri Varadhachary

**CCR Perspectives in Drug Approval**

- **4034** Is Conflict of Interest Becoming a Challenge for Institution-Based Institutional Review Boards?
  - Ralph S. Freedman and Ross McKinney, Jr

**Molecular Pathways**

- **4040** Molecular Pathways: ROS1 Fusion Proteins in Cancer
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**Reviews**

- **4046** HMGB1 in Cancer: Good, Bad, or Both?
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- **4058** Genomic Profiling Defines Subtypes of Prostate Cancer with the Potential for Therapeutic Stratification
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**HUMAN CANCER BIOLOGY**

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  - Mirte Mayke Streppel, Shweta Pai, Nathaniel R. Campbell, Chaoxin Hu, Shinichi Yabuschi, Marcia Irene Canto, Jean S. Wang, Elizabeth A. Montgomery, and Anirban Maitra

- **4079** Characteristics and Clinical Impacts of the Immune Environments in Colorectal and Renal Cell Carcinoma Lung Metastases: Influence of Tumor Origin
  - Romain Remark, Marco Alifano, Isabelle Cremer, Audrey Lupo, Marie-Caroline Dieu-Nosjean, Marc Riquet, Lucile Crozet, Hanane Ouakrim, Jeremy Goc, Aurélie Cazes, Jean-François Flejou, Laure Gibault, Virginie Verkarre, Jean-François Régnard, Olivier-NicolasPagès, Stéphane Oudard, Bernhard Milecnic, Catherine Sautès-Fridman, Wolf-Herman Fridman, and Diane Damotte

- **4092** IL-10 Promotes Tumor Aggressiveness via Upregulation of CIP2A Transcription in Lung Adenocarcinoma
  - Wen-Wei Sung, Yao-Chen Wang, Po-Lin Lin, Ya-Wen Cheng, Chih-Yi Chen, Tsu-Chin Wu, and Huei Lee

- **4104** Somatic Profiling of the Epidermal Growth Factor Receptor Pathway in Tumors from Patients with Advanced Colorectal Cancer Treated with Chemotherapy ± Cetuximab
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### Antibacterial Activity of Niclosamide in Human Glioblastoma
Anja Wieland, Daniel Trageser, Sabine Gogolok, Roman Reintanz, Heike Hofer, Mihaela Keller, Anke Lehndorff, Ramona Schelle, Sabine Normann, Lil Klaas, Andreas Waha, Philipp Koch, Rolf Fimmers, Torsten Pietsch, Anthony T. Yachnis, David W. Pincus, Dennis A. Steindler, Oliver Brustle, Matthias Simon, Martin Glas, and Björn Scheffler

### Combined Alloreactive CTL Cellular Therapy with Prodrug Activator Gene Therapy in a Model of Breast Cancer Metastatic to the Brain

### Rational Combination of a MEK Inhibitor, Selumetinib, and the Wnt/Ca²⁺ Pathway Modulator, Cyclosporin A, in Preclinical Models of Colorectal Cancer
Anna Spreafico, John J. Tentler, Todd M. Pitts, Aik Choon Tan, Mark A. Gregory, John J. Arcaro, Peter J. Klauck, Martine C. McManus, Ryan J. Hansen, Ji Hyee Kim, Lindsey N. Micel, Heather M. Selby, Timothy B. Newton, Kelly L. McPhillips, Daniel L. Gustafson, James V. DeGregori, Wells A. Messersmith, Robert A. Winn, and S. Gail Eckhardt

### Toward Prediction of Efficacy of Chemotherapy: A Proof of Concept Study in Lung Cancer Patients Using [¹¹C]Docetaxel and Positron Emission Tomography

### A Poor Prognosis Subtype of HNSCC Is Consistently Observed across Methylome, Transcriptome, and miRNome Analysis
Alain C. Jung, Sylvie Job, Sonia Ledrappier, Christine Macabre, Joseph Abecassis, Aurelien de Reynies, and Bohdan Wasylyk

### A Functional Variant at 19q13.3, rs967591G>A, Is Associated with Shorter Survival of Early-Stage Lung Cancer
Hyo-Sung Jeon, Guang Jin, Hyo-Gyoung Kang, Yi Young Choi, Won Kee Lee, Jin Eun Choi, Eun Young Bae, Seung Soo Yoo, Shin Yup Lee, Eung Bae Lee, Young Tae Kim, Jaehee Lee, Seung-Ick Cha, Chang Ho Kim, Sanghoon Jhee, In San Kim, and Jae Yong Park

### Breast Cancer Index Identifies Early-Stage Estrogen Receptor–Positive Breast Cancer Patients at Risk for Early- and Late-Distant Recurrence
Yi Zhang, Catherine A. Schnabel, Brock E. Schroeder, Piiha-Lotta Jerevall, Rachel C. Jankowitz, Tommy Fornander, Olle Stål, Adam M. Brufsky, Dennis Sgroi, and Mark G. Erlander

### Tumor Imaging and Interferon-γ-Inducible Protein-10 Gene Transfer Using a Highly Efficient Transferrin-Conjugated Liposome System in Mice
Huiqin Zhu, Yi Peng, Qin Yao, Nuo Zhou, Sufang Zhou, Jian He, Yuan Fang, Xi Li, Hongwei Jin, Xiaoling Lu, and Yongxiang Zhao

### Serum Insulin-like Growth Factor-I Level Is an Independent Predictor of Recurrence and Survival in Early Hepatocellular Carcinoma: A Prospective Cohort Study
Eun Ju Cho, Jeong-Hoon Lee, Jeong-Ju Yoo, Won-Mook Choi, Min Jong Lee, Yuri Cho, Dong Hyeon Lee, Yun Bin Lee, Jung Hee Kwon, Su Jong Yu, Jeong Min Lee, Kyung-Suk Suh, Kion Kim, Yoon Jun Kim, Jung-Hwan Yoon, Chung Yong Kim, and Hye-Suk Lee

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**IMAGING, DIAGNOSIS, PROGNOSIS**

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**Clinical Cancer Research**

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A Randomized Phase II Trial of Multiepitope Vaccination with Melanoma Peptides for Cytotoxic T Cells and Helper T Cells for Patients with Metastatic Melanoma (E1602)
Craig L. Slingluff, Jr, Sandra Lee, Fengmin Zhao, Kimberly A. Chianese-Bullock, Walter C. Olson, Lisa H. Butterfield, Theresa L. Whiteside, Philip D. Leming, and John M. Kirkwood
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Vandetanib in Children and Adolescents with Multiple Endocrine Neoplasia Type 2B Associated Medullary Thyroid Carcinoma
Elizabeth Fox, Brigitte C. Widemann, Meredith K. Chuk, Leigh Marcus, Alberta Aikin, Patricia O. Whitcomb, Maria J. Merino, Maya Lodish, Eva Dombi, Seth M. Steinberg, Samuel A. Wells, and Frank M. Balis

Cyclophosphamide Induces a IFN-I–Associated Sterile Inflammatory Response Signature in Cancer Patients’ Blood Cells: Implications for Cancer Chemoimmunotherapy
Federica Moschella, Giovanni Fernando Torelli, Mara Valentini, Francesca Urbani, Carla Buccone, Maria Teresa Petrucci, Fiammetta Natalino, Filippo Belardelli, Robin Foà, and Enrico Proietti

A Phase I Study of Quisinostat (JNJ-26481585), an Oral Hydroxamate Histone Deacetylase Inhibitor with Evidence of Target Modulation and Antitumor Activity, in Patients with Advanced Solid Tumors
Balaji Venugopal, Richard Baird, Rebecca S. Kristeleit, Ruth Plummer, Richard Cowan, Adam Stewart, Nele Fourneau, Peter Hellemans, Yusri Elsayed, Steve Mcclue, Johan W. Smit, Ann Forslund, Charles Phelps, John Camm, TR Jeffry Evans, Johann S. de Bono, and Udai Banerji

ALK Rearrangements Are Mutually Exclusive with Mutations in EGFR or KRAS: An Analysis of 1,683 Patients with Non–Small Cell Lung Cancer
Justin F. Gainor, Anna M. Varghese, Sai-Hong Ignatiou Ou, Sheheryar Kabraji, Mark M. Awad, Ryohei Katayama, Amanda Pawlak, Mari Mino-Kenudson, Beow Y. Yeap, Gregory J. Riely, A. John Iafriate, Maria E. Arcila, Marc Ladanyi, Jeffrey A. Engelman, Dora Dias-Santagata, and Alice T. Shaw

Putative Predictive Biomarkers of Survival in Patients with Metastatic Pancreatic Adenocarcinoma Treated with Gemcitabine and Ganitumab, an IGF1R Inhibitor
Ian McCaffrey, Yanyan Tudor, Hongjie Deng, Rui Tang, Samuel Suzuki, Sunita Badola, Hedy L. Kindler, Charles S. Fuchs, Ewlyn Loh, Scott D. Patterson, Li Chen, and Jennifer L. Gansert

Tivantinib (ARQ197) Displays Cytotoxic Activity That Is Independent of Its Ability to Bind MET—Letter
Lorenza Rimassa, Jordi Bruix, Massimo Broggini, and Armando Santoro

Tivantinib (ARQ197) Displays Cytotoxic Activity That Is Independent of Its Ability to Bind MET—Response
Paolo Michieli, Cristina Basilico, and Selma Pennacchietti
ABOUT THE COVER

Primary human glioblastoma cells reveal neuronal (green) and glial (red) differentiation potential. The image was obtained during multipotency and self-renewal analysis investigating antitumor effects of niclosamide. For details, see the article by Wieland and colleagues on page 4124 of this issue.