Highlights of This Issue 1819

SPECIAL FEATURES

CCR Translations

1821 The Antitumor Immunity of Ipilimumab: (T-cell) Memories to Last a Lifetime? Michael A. Postow, Margaret K. Callahan, and Jedd D. Wolchok See article p. 2039

1824 Second-Line Therapies in Hepatocellular Carcinoma: Emergence of Resistance to Sorafenib Augusto Villanueva and Josep M. Llovet See article p. 2090

1827 In Search of a Real "Targeted" Therapy for Thyroid Cancer Marcia S. Brose See article p. 2056

CCR New Strategies

1830 New Strategies for Advanced Neuroendocrine Tumors in the Era of Targeted Therapy Mei Dong, Alexandria T. Phan, and James C. Yao

Statistics in Clinical Cancer Research

1837 Statistical Issues and Recommendations for Noninferiority Trials in Oncology: A Systematic Review Shiro Tanaka, Yousuke Kinjo, Yoshiki Kataoka, Kenichi Yoshimura, and Satoshi Teramukai

CCR Drug Updates

1848 Abiraterone in Prostate Cancer: A New Angle to an Old Problem Mark N. Stein, Susan Goodin, and Robert S. DiPaola

Molecular Pathways


HUMAN CANCER BIOLOGY

1863 Molecular Pathways: Regulation and Therapeutic Implications of Multidrug Resistance Kevin G. Chen and Branimir I. Sikic

1870 Immune Thrombocytopenia in Patients with Chronic Lymphocytic Leukemia Is Associated with Stereotyped B-cell Receptors Carlo Visco, Francesco Maura, Giacomo Tuana, Luca Agnelli, Marina Lionetti, Sonia Fabris, Elisabetta Novella, Ilaria Giaretta, Gianluigi Reda, Wilma Barcellini, Luca Baldini, Antonino Neri, Francesco Rodeghiero, and Agostino Cortezezi

1879 MAPKAP Kinase 2 Overexpression Influences Prognosis in Gastrointestinal Stromal Tumors and Associates with Copy Number Variations on Chromosome 1 and Expression of p53 MAP Kinase and ET1
Peter Birner, Andrea Beer, Ursula Vinatzer, Susanne Stary, Romana Höfberger, Nadine Nirtl, Fritz Wrb, Berthold Streubel, and Sebastian F. Schoppmann

1888 Protein Kinase CK2 Protects Multiple Myeloma Cells from ER Stress–Induced Apoptosis and from the Cytotoxic Effect of HSP90 Inhibition through Regulation of the Unfolded Protein Response
Sabrina Manni, Alessandra Brancalion, Laura Quotti Tubi, Anna Colpo, Laura Pavan, Anna Cabredel, Elisia Ave, Fortunato Zaffino, Giovanni Di Maira, Maria Ruzzene, Fausto Adami, Renato Zambello, Maria Rita Pittari, Pierfrancesco Tassone, Lorenzo A. Pinna, Carmela Gervieri, Gianpietro Semenzato, and Francesco Piazza

1901 Glioblastoma Stem–Like Cell Lines with Either Maintenance or Loss of High-Level EGFR Amplification, Generated via Modulation of Ligand Concentration
Alexander Schulte, Hauke S. Günther, Tobias Martens, Svenja Zapf, Sabine Riedel, Clemens Wulff, Malgorzata Stoupiec, Manfred Westphal, and Katrin Lamszus
1914  L1 Cell Adhesion Molecule Promotes Tumorigenicity and Metastatic Potential in Non–Small Cell Lung Cancer  
Josephine Hai, Chang-Qi Zhu, Bizhan Bandarchi, Yu-Hui Wang, Boya Navab, Frances A. Shepherd, Igor Jurisica, and Ming-Sound Tsao

1925  Immune Suppression in Premalignant Respiratory Papillomas: Enriched Functional CD4⁺Foxp3⁺ Regulatory T Cells and PD-1/PD-L1/L2 Expression  
Lynda J. Hatam, James A. DeVoti, David W. Rosenthal, Fung Lam, Allan L. Abramson, Bettie M. Steinberg, and Vincent R. Bonagura

1936  Integrative Genomics Identified RFC3 As an Amplified Candidate Oncogene in Esophageal Adenocarcinoma  

1947  Frequency of Driver Mutations in Lung Adenocarcinoma from Female Never-Smokers Varies with Histologic Subtypes and Age at Diagnosis  
Yang Zhang, Yihua Sun, Yunjian Pan, Chenguang Li, Lei Shen, Yuan Li, Xiaoyang Luo, Ting Ye, Rui Wang, Haichuan Hu, Hang Li, Lei Wang, William Pao, and Haiquan Chen

IMAGING, DIAGNOSIS, PROGNOSIS

1992  Serum Autoantibody Signature of Ductal Carcinoma In Situ Progression to Invasive Breast Cancer  
Alain Mangé, Jérôme Lacombe, Caroline Bascoul-Mollevi, Marta Jarlier, Pierre-Jean Lamy, Philippe Rouanet, Thierry Maudelonde, and Jérôme Solassol

2001  Copy Number Gain of 1q25 Predicts Poor Progression-Free Survival for Pediatric Intracranial Ependymomas and Enables Patient Risk Stratification: A Prospective European Clinical Trial Cohort Analysis on Behalf of the Children’s Cancer Leukaemia Group (CCLG), Société Française d’Oncologie Pédiatrique (SFOP), and International Society for Pediatric Oncology (SIOP)  

2012  A Three-Gene Expression Signature Model for Risk Stratification of Patients with Neuroblastoma  
Idoia Garcia, Gemma Mayol, José Ríos, Gemina Domenech, Nai-Kong V. Cheung, André Oberthuer, Matthias Fischer, John M. Maris, Garrett M. Brodeur, Barbara Hero, Eva Rodríguez, Mariona Suñol, Patricia Galvan, Carmen de Torres, Jaume Mora, and Cinzia Lavarino

2024  ¹⁸⁹F-FDG-PET/CT Imaging as an Early Survival Predictor in Patients with Primary High-Grade Soft Tissue Sarcomas Undergoing Neoadjuvant Therapy  
A Panel of Four miRNAs Accurately Differentiates Malignant from Benign Indeterminate Thyroid Lesions on Fine Needle Aspiration

Xavier M. Keutgen, Filippo Filicori, Michael J. Crowley, Yongchun Wang, Theresa Scognamiglio, Rana Hoda, Daniel Buitrago, David Cooper, Martha A. Zeiger, Rasa Zarnegar, Olivier Elemento, and Thomas J. Fahey III

CANCER THERAPY: CLINICAL

CTLA-4 Blockade with Ipilimumab: Long-term Follow-up of 177 Patients with Metastatic Melanoma

Peter A. Prieto, James C. Yang, Richard M. Sherry, Marybeth S. Hughes, Udai S. Kammula, Donald E. White, Catherine L. Levy, Steven A. Rosenberg, and Giao Q. Phan

See commentary p. 1821

Phase I Study of Rigosertib, an Inhibitor of the Phosphatidylinositol 3-Kinase and Polo-like Kinase 1 Pathways, Combined with Gemcitabine in Patients with Solid Tumors and Pancreatic Cancer

Wen Wei Ma, Wells A. Messersmith, Grace K. Dy, Colin D. Weekes, Amy Whitworth, Chen Ren, Manoj Maniar, Francois Wilhelm, S. Gail Eckhardt, Alex A. Adjei, and Antonio Jimeno

Phase II Efficacy and Pharmacogenomic Study of Selumetinib (AZD6244; ARRY-142886) in Iodine-131 Refractory Papillary Thyroid Carcinoma with or without Follicular Elements


See commentary p. 1827

Tumor Hypoxia Predicts Biochemical Failure following Radiotherapy for Clinically Localized Prostate Cancer

Michael Milosevic, Padraig Warde, Cynthia Ménard, Peter Chung, Ants Toi, Adrian Ishkanian, Michael McLean, Melanie Pintilie, Jemma Sykes, Mary Gospodarowicz, Charles Catton, Richard P. Hill, and Robert Bristow

CORRECTIONS

Correction: Molecular Imaging of TGFβ-Induced Smad2/3 Phosphorylation Reveals a Role for Receptor Tyrosine Kinases in Modulating TGFβ Signaling

ABOUT THE COVER

High-level EGFR gene amplification can be retained in glioblastoma stem-like cell lines established and propagated without recombinant EGF. In contrast, high-level amplification is lost in parallel cell lines from the same tumors established with EGF supplementation. Cell lines with high-level EGFR amplification produce highly aggressive xenograft tumors in the brains of nude mice, retaining the EGFR amplification as shown in the cover figure, whereas counterpart cell lines, lacking high-level amplification, are either nontumorigenic or grow significantly more slowly in vivo. For details, see the article by Schulte and colleagues on page 1901 of this issue.