Contents

Highlights of This Issue 4683

SPECIAL FEATURES

CCR Translations

4685 | Location, Location, Location-Makes All the Difference for Hypoxia in Lung Tumors
Amit Maity and Constantinos Koumenis
See article p. 4843

CCR New Strategies

4688 | New Strategies in Hepatocellular Carcinoma: Genomic Prognostic Markers
Augusto Villanueva, Yujin Hoshida, Sara Toffanin, Anja Lachenmayer, Clara Alsinet, Radoslav Savic, Helena Cornella, and Josep M. Llovet

Molecular Pathways

4695 | Wnt/β-Catenin Signaling in T-Cell Immunity and Cancer Immunotherapy
Luca Gattinoni, Yun Ji, and Nicholas P. Restifo

Review

4702 | Poly(ADP-Ribose) Polymerase Inhibition: "Targeted" Therapy for Triple-Negative Breast Cancer
Carey K. Anders, Eric P. Winer, James M. Ford, Rebecca Dent, Daniel P. Silver, George W. Sledge, and Lisa A. Carey

HUMAN CANCER BIOLOGY

4711 | Involvement of Human Herpesvirus-6 Variant B in Classic Hodgkin's Lymphoma via DR7 Oncoprotein
Aurélie Lacroix, Sophie Collot-Teixeira, Laurent Mardivirin, Arnaud Jaccard, Barbara Petit, Christophe Piguet, Franck Sturz, Pierre-Marie Preux, Dominique Bordessoule, and Sylvie Ranger-Roegez

4722 | Comprehensive Analysis of the MYB-NFIB Gene Fusion in Salivary Adenoid Cystic Carcinoma: Incidence, Cystic Carcinoma, and Clinicopathologic Significance
Yoshisugu Mitani, Jie Li, Pulivarthi H. Rao, Yi-jue Zhao, Diana Bell, Scott M. Lippman, Randal S. Weber, Carlos Caulin, and Adel K. El-Naggar

4732 | Hypoxia Inducible Factor 1α and Hypoxia Inducible Factor 2α Play Distinct and Functionally Overlapping Roles in Oral Squamous Cell Carcinoma
Gui-quan Zhu, Ya-ling Tang, Ling Li, Min Zheng, Jian Jiang, Xiao-yu Li, Si-xiu Chen, and Xin-hua Liang

CANCER THERAPY: PRECLINICAL

4742 | Role of CAAT/Enhancer Binding Protein Homologous Protein in Panobinostat-Mediated Potentiation of Bortezomib-Induced Lethal Endoplasmic Reticulum Stress in Mantle Cell Lymphoma Cells
Rekha Rao, Srilatha Nalluri, Warren Fiskus, Andrew Savoie, Kathleen M. Buckley, Kyungsoo Ha, Ramesh Balusu, Atul Joshi, Veena Coothankandaswamy, Jianguo Tao, Eduardo Sotomayor, Peter Atadja, and Kapil N. Bhalla

4755 | Mitochondrial-Mediated Apoptosis in Lymphoma Cells by the Diterpenoid Lactone Andrographolide, the Active Component of Andrographis paniculata
Shuo Yang, Andrew M. Evens, Sheila Prachand, Amareeshwar T.K. Singh, Savita Bhalla, Kevin David, and Leo I. Gordon
4769 Engineered Thio-Trastuzumab-DM1 Conjugate with an Improved Therapeutic Index to Target Human Epidermal Growth Factor Receptor 2–Positive Breast Cancer

4779 Preclinical Characterization of Mitochondria-Targeted Small Molecule Hsp90 Inhibitors, Gamitrinibs, in Advanced Prostate Cancer
Byoung Heon Kang, Markus D. Siegelin, Janet Plescia, Christopher M. Raskett, David S. Garlick, Takehiko Dohi, Jane B. Lian, Gary S. Stein, Lucia R. Languino, and Dario C. Altieri

4789 Cisplatin-Induced Downregulation of OCTN2 Affects Carnitine Wasting
Cynthia S. Lancaster, Chaoxin Hu, Ryan M. Franke, Kelly K. Filipski, Shelley J. Orwick, Zhaoyuan Chen, Zhili Zuo, Walter J. Loos, and Alex Sparreboom

4800 Superior Efficacy of Tumor Cell Vaccines Grown in Physiologic Oxygen
Michael R. Olin, Brian M. Andersen, David M. Zellmer, Patrick T. Grogan, Flavia E. Popescu, Zhengming Xiong, Colleen L. Forster, Charlie Seiler, Karen S. SantaCruz, Wei Chen, Bruce R. Blazar, and John R. Ohlfest

4809 Tumor Regression and Curability of Preclinical Neuroblastoma Models by PEGylated SN38 (EZN-2208), a Novel Topoisomerase I Inhibitor
Fabio Pastorino, Monica Loi, Puja Sapra, Pamela Becherini, Michele Cilli, Laura Emionite, Domenico Ribatti, Lee M. Greenberger, Ivan D. Horak, and Mirco Ponzi

4822 Detailed Distribution of NK012, an SN-38–Incorporating Micelle, in the Liver and Its Potent Antitumor Effects in Mice Bearing Liver Metastases
Amane Takahashi, Nobuhiro Ohkohchi, Masahiro Yasunaga, Jun-ichiro Kuroda, Yoshikatsu Koga, Hirotsugu Kenmotsu, Taira Kinoshita, and Yasuhiro Matsumura

IMAGING, DIAGNOSIS, PROGNOSIS

4832 Phase I Pharmacokinetic and Pharmacodynamic Evaluation of Combined Valproic Acid/Doxorubicin Treatment in Dogs with Spontaneous Cancer

4843 Hypoxia in Models of Lung Cancer: Implications for Targeted Therapeutics
Edward E. Graves, Marta Vilalta, Ivana K. Cecic, Janine T. Erler, Phuoc T. Tran, Dean Felsher, Leanne Sayles, Alejandro Sweet-Cordero, Quynh-Thu Le, and Amato J. Giaccia

4853 Biomarkers Predicting Outcome in Patients with Advanced Renal Cell Carcinoma: Results from Sorafenib Phase III Treatment Approaches in Renal Cancer Global Evaluation Trial
Carol Peña, Chetan Lathia, Minghua Shan, Bernard Escudier, and Ronald M. Bukowski

4864 Lung Squamous Cell Carcinoma mRNA Expression Subtypes Are Reproducible, Clinically Important, and Correspond to Normal Cell Types
Matthew D. Wilkerson, Xiaoying Yin, Katherine A. Hoadley, Yufeng Liu, Michele C. Hayward, Christopher R. Cabanski, Kenneth Muldrew, C. Ryan Miller, Scott H. Randell, Mark A. Socinski, Alden M. Parsons, William K. Funkhouser, Philip S. Bernard, Charles M. Perou, and D. Neil Hayes

CANCER THERAPY: CLINICAL

4876 Phase I Safety, Pharmacokinetics, and Inhibition of Src Activity Study of Saracatinib in Patients with Solid Tumors
José Baselga, Andres Cervantes, Erika Martinelli, Isabel Chirivella, Klaas Hoekman, Herbert I. Hurwitz, Duncan I. Jodrell, Paul Hamberg, Esther Casado, Paul Elvin, Alan Swaisland, Renee Iacona, and Josep Tabernero
ABOUT THE COVER

Preclinical toxicology analysis of Gamitrinibs. Animals carrying prostate cancer xenografts and treated systemically with vehicle or Gamitrinib-TPP (G-TPP) were sacrificed at the end of treatment and organs were collected and analyzed histologically. A representative image of spleen from the vehicle group is shown. For further details, please see the article by Kang and colleagues on page 4779 of this issue.