

Highlights of This Issue 1233

MCR RapidIMPACT**1235** Whole-Genome and Transcriptional Analysis of Treatment-Emergent Small-Cell Neuroendocrine Prostate Cancer Demonstrates Intraclass Heterogeneity

Rahul R. Aggarwal, David A. Quigley, Jiaoti Huang, Li Zhang, Tomasz M. Beer, Matthew B. Rettig, Rob E. Reiter, Martin E. Gleave, George V. Thomas, Adam Foye, Denise Playdle, Paul Lloyd, Kim N. Chi, Christopher P. Evans, Primo N. Lara, Felix Y. Feng, Joshi J. Alumkal, and Eric J. Small

CANCER GENES AND NETWORKS

1241 HDAC1 Is a Required Cofactor of CBF β -SMMHC and a Potential Therapeutic Target in Inversion 16 Acute Myeloid Leukemia

Lisa E. Richter, Yiqian Wang, Michelle E. Becker, Rachel A. Coburn, Jacob T. Williams, Catalina Amador, and R. Katherine Hyde

1253 Cholesterol Sulfotransferase SULT2B1b Modulates Sensitivity to Death Receptor Ligand TNF α in Castration-Resistant Prostate Cancer

Renee E. Vickman, Jiang Yang, Nadia A. Lanman, Gregory M. Cresswell, Faye Zheng, Chi Zhang, R. W. Doerge, Scott A. Crist, Andrew D. Mesecar, Chang-Deng Hu, and Timothy L. Ratliff

1264 The Pioneering Role of GATA2 in Androgen Receptor Variant Regulation Is Controlled by Bromodomain and Extraterminal Proteins in Castrate-Resistant Prostate Cancer

Lewis Chaytor, Matthew Simcock, Sirintra Nakjang, Richard Heath, Laura Walker, Craig Robson, Dominic Jones, and Luke Gaughan

1279 Loss of TP63 Promotes the Metastasis of Head and Neck Squamous Cell Carcinoma by Activating MAPK and STAT3 Signaling

Senthilnath Lakshmanachetty, Velmurugan Balaiya, Whitney A. High, and Maranke I. Koster

1294 MCL1 and DEDD Promote Urothelial Carcinoma Progression

Andrew L. Hong, Jennifer L. Guerriero, Mihir B. Doshi, Bryan D. Kynnap, Won Jun Kim, Anna C. Schinzel, Rebecca Modiste, Amy J. Schlauch, Rosalyn M. Adam, David J. Kwiatkowski, Rameen Beroukham, Anthony Letai, Jonathan E. Rosenberg, and William C. Hahn

1305 Potent Antineoplastic Effects of Combined PI3K α -MNK Inhibition in Medulloblastoma

Frank Eckerdt, Jonathan B. Bell, Elspeth M. Beauchamp, Jessica Clymer, Gavin T. Blyth, Ewa M. Kosciuczuk, Quanhong Ma, David Z. Chen, Craig Horbinski, Stewart Goldman, Hidayatullah G. Munshi, Rintaro Hashizume, and Leonidas C. Plataniias

CELL FATE DECISIONS

1316 MST1 Suppresses Pancreatic Cancer Progression via ROS-Induced Pyroptosis

Jiujie Cui, Zhuqing Zhou, Haiyan Yang, Feng Jiao, Ning Li, Yong Gao, Liwei Wang, Jingde Chen, and Ming Quan

CHROMATIN, EPIGENETICS AND RNA REGULATION

1326 LSD1 Inhibition Attenuates Tumor Growth by Disrupting PLK1 Mitotic Pathway

Priya S. Dalvi, Iris F. Macheleidt, So-Young Lim, Sonja Meemboor, Marion Müller, Hannah Eischeid-Scholz, Stephan C. Schaefer, Reinhard Buettner, Sebastian Klein, and Margarete Odenthal

GENOME MAINTENANCE

1338 O-GlcNAcylation Enhances Double-Strand Break Repair, Promotes Cancer Cell Proliferation, and Prevents Therapy-Induced Senescence in Irradiated Tumors

Elena V. Efimova, Oliver K. Appelbe, Natalia Ricco, Steve S.-Y. Lee, Yue Liu, Donald J. Wolfgeher, Tamica N. Collins, Amy C. Flor, Aishwarya Ramamurthy, Sara Warrington, Vytautas P. Bindokas, and Stephen J. Kron

Table of Contents

METABOLISM

1351 Urea Cycle Sustains Cellular Energetics upon EGFR Inhibition in EGFR-Mutant NSCLC

Catherine Pham-Danis, Sarah Gehrke, Etienne Danis, Andrii I. Rozhok, Michael W. Daniels, Dexiang Gao, Christina Collins, José T. Di Paola, Angelo D'Alessandro, and James DeGregorio

NEW HORIZONS IN CANCER BIOLOGY

1365 Metabolic Detection of Bruton's Tyrosine Kinase Inhibition in Mantle Cell Lymphoma Cells

Seung-Cheol Lee, Alexander A. Shestov, Lili Guo, Qian Zhang, Jeffrey C. Roman, Xiaobin Liu, Hong Y. Wang, Stephen Pickup, Kavindra Nath, Pin Lu, Samuel Hofbauer, Clementina Mesaros, Y. Lynn Wang, David S. Nelson, Stephen J. Schuster, Ian A. Blair, Jerry D. Glickson, and Mariusz A. Wasik

SIGNAL TRANSDUCTION AND FUNCTIONAL IMAGING

1378 Multifunctional APJ Pathway Promotes Ovarian Cancer Progression and Metastasis

Deepika Neelakantan, Samrita Dogra, Bharat Devapatla, Pharavee Jaiprasart, Marie Claire Mukashyaka, Ralf Janknecht, Shailendra Kumar Dhar Dwivedi, Resham Bhattacharya, Sanam Husain, Kai Ding, and Sukyung Woo

1391 E-Cadherin Represses Anchorage-Independent Growth in Sarcomas through Both Signaling and Mechanical Mechanisms

Mohit Kumar Jolly, Kathryn E. Ware, Shengnan Xu, Shivee Gilja, Samantha Shetler, Yanjun Yang, Xueyang Wang, R. Garland Austin, Daniella Runyambo, Alexander J. Hish, Suzanne Bartholf DeWitt, Jason T. George, R. Timothy Kreulen, Mary-Keara Boss, Alexander L. Lazarides, David L. Kerr, Drew G. Gerber, Dharshan Sivaraj, Andrew J. Armstrong, Mark W. Dewhirst, William C. Eward, Herbert Levine, and Jason A. Somarelli

TUMOR MICROENVIRONMENT AND IMMUNOBIOLOGY

1403 miRNA-148a-3p Regulates Immunosuppression in DNA Mismatch Repair-Deficient Colorectal Cancer by Targeting PD-L1

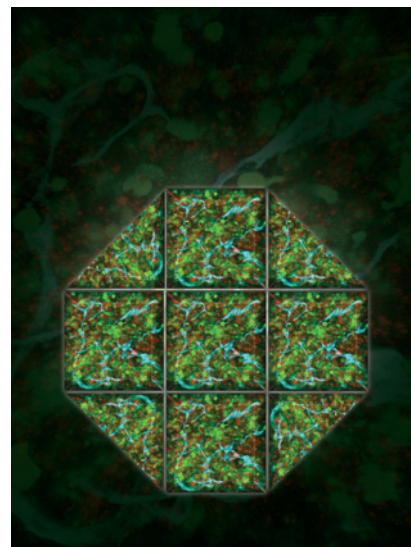
Mai Ashizawa, Hirokazu Okayama, Teruhide Ishigame, Aung Kyi Thar Min, Katsuharu Saito, Daisuke Ujjiie, Yuko Murakami, Tomohiro Kikuchi, Yuko Nakayama, Masaru Noda, Takeshi Tada, Hisahito Endo, Shotaro Fujita, Wataru Sakamoto, Motonobu Saito, Zenichiro Saze, Tomoyuki Momma, Shinji Ohki, Kosaku Mimura, and Koji Kono

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ABOUT THE COVER

Metabolic alterations underlie the acquisition of a host of protumorigenic and progression-associated phenotypes. The cover image depicts three-dimensional imaging of an irradiated MCF7 xenograft tumor in which OGA, an enzyme that catalyzes the removal of O-linked N-acetyl glucosamine, had been ablated using RNA interference (DNA damage foci, red; shRNA expression, green; vascular endothelium, cyan). Increased protein O-GlcNAcylation resulting from OGA loss was associated with faster resolution of DNA damage. Taken together, the data suggest that rewiring of the hexosamine biosynthetic pathway may drive resistance to radiotherapy.



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