Highlights of This Issue

IGH/MYC Translocation Associates with BRCA2 Deficiency and Synthetic Lethality to PARP1 Inhibitors
Silvia Maifrede, Kayla Martin, Paulina Podsywalo-Bartnicka, Katherine Sullivan-Reed, Samantha K. Langer, Reza Nejati, Yashodhara Dasgupta, Michael Hulse, Daniel Gritsyuk, Margaret Nieborowska-Skorska, Lena N. Lupey-Green, Huaqing Zhao, Katarzyna Piwocka, Mariusz A. Wasik, Italo Tempera, and Tomasz Skorski

Therapeutic Targeting of PTK7 is Cytotoxic in Atypical Teratoid Rhabdoid Tumors
Shanta M. Messerli, Mariah M. Hoffman, Etienne Z. Gnimpieba, and Ratan D. Bhardwaj

Combined AURKA and H3K9 Methyltransferase Targeting Inhibits Cell Growth By Inducing Mitotic Catastrophe
Angela Mathison, Ann Salmonson, Mckenna Missfeldt, Jennifer Bintz, Monique Williams, Sarah Kossak, Asha Nair, Thiago M. de Assuncao, Trace Christensen, Navtej Buttar, Juan Iovanna, Robert Huebert, and Gwen Lomberk

Epigenetic Regulation of ZBTB18 Promotes Glioblastoma Progression
Vita Fedele, Fangping Dai, Anie P. Masilamani, Dieter H. Heiland, Eva Kling, Ana M. Gátjens-Sanchez, Roberto Ferrarese, Leonardo Platania, Doostkam Soroush, Hyunsoo Kim, Sven Nelander, Astrid Weyerbrock, Marco Prinz, Andrea Califano, Antonio Iavarone, Markus Bredel, and Maria S. Carro

Genomics
Next-Generation Sequencing Analysis and Algorithms for PDX and CDX Models
Garima Khandelwal, Maria Romina Girotti, Christopher Smowton, Sam Taylor, Christopher Wirth, Marek Dynowski, Christopher K. Frese, Ged Brady, Caroline Dive, Richard Marais, and Crispin Miller

Metabolism
Glutamine Transporters Are Targets of Multiple Oncogenic Signaling Pathways in Prostate Cancer
Mark A. White, Chenghu Lin, Kimal Rajapakse, Jianrong Dong, Yan Shi, Efrosini Tsouko, Ratna Mukhopadhyay, Diana Jasso, Wajahat Dawood, Cristian Coarfa, and Daniel E. Frigo

Oncogenes and Tumor Suppressors
miR-202 Diminishes TGFβ Receptors and Attenuates TGFβ1-Induced EMT in Pancreatic Cancer
Hardik R. Mody, Sau Wai Hung, Rakesh K. Pathak, Jasmine Griffin, Zobeida Cruz-Monserrate, and Rajgopal Govindarajan

High-Affinity Internalizing Human scFv-Fc Antibody for Targeting FGFR1-Overexpressing Lung Cancer
Aleksandra Sokolowska-Wedzina, Grzegorz Chodaczek, Julia Chudzian, Aleksandra Borek, Malgorzata Zakrzewska, and Jacek Otlewski

p53 Maintains Baseline Expression of Multiple Tumor Suppressor Genes

Aurora Kinase A Promotes AR Degradation via the E3 Ligase CHIP
Sukumar Sarkar, David L. Brautigan, and James M. Larner

Regulation of USP37 Expression by REST-Associated G9a-Dependent Histone Methylation
Tara H.W. Dobson, Rashieda J. Hatcher, Jayanthishmathi Swaminathan, Chandra M. Das, Shavali Shah, Rong-Hua Tao, Ciro Miltie, Sabrina Castellano, Peter H. Taylor, Gianluca Shandella, and Vidy Gopalakrishnan

Signal Transduction
EGFR Signals through a DOCK180-MLK3 Axis to Drive Glioblastoma Cell Invasion
Sean A. Misic, Jian Chen, Laura Schroeder, Chotirat Rattanasinchai, Ashley Sample, Jann N. Sarkaria, and Kathleen A. Gallo
ABOUT THE COVER

This study, by Pappas and colleagues (beginning on page 1051), demonstrates that the p53 tumor suppressor maintains baseline expression of numerous other well-validated tumor suppressor genes. Mammary epithelial cells grown in 3D culture form acinar structures that are suitable model systems to study signaling and growth properties. We used CRISPR/Cas9-mediated genetic modifications in the nontumorigenic mammary epithelial cell line MCF10A and found that interruption of the baseline activation of PTEN by p53 increases tumorigenic properties by influencing the size of the acini, proliferation, and signaling in 3D culture. Photographs shown are created by immunofluorescence of the acini structures for various signaling proteins.