## Highlights of This Issue

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### Tyrosine Phosphorylation of p27Kip1 Correlates with Palbociclib Responsiveness in Breast Cancer Tumor Cells Grown in Explant Culture

Susan R.S. Gottesman, Jonathan Somma, Vladislav Tsiperson, Lisa Dresner, Usha Govindarajulu, Priyank Patel, and Stacy W. Blain

### Discovery and Characterization of Recurrent, Targetable ALK Fusions in Leiomyosarcoma

Lara E. Davis, Kevin D. Nusser, Joanna Przybyl, Janet Pittsenbarger, Nicolle E. Hofmann, Sushama Varma, Sujay Vennam, Maria Debiec-Rychter, Matt van de Rijn, and Monika A. Davare

### Epigenetic Regulation ofDlg1, via Kaiso, Alters Mitotic Spindle Polarity and Promotes Intestinal Tumorigenesis

Madeleine A. Young, Stephanie May, Angelos Damo, Young So Yoon, Man-Wook Hur, Wojciech Swat, and Lee Parry

### Growth Factor–Independent 1 Is a Tumor Suppressor Gene in Colorectal Cancer

Min-Shan Chen, Yuan-Hung Lo, Xi Chen, Christopher S. Williams, Jessica M. Donnelly, Zachary K. Crias II, Shreena Patel, Joann M. Buikus, Julien Dubrulle, Milion J. Finegold, and Noah F. Shroyer

### The Tumor Suppressor FBW7 and the Vitamin D Receptor Are Mutual Cofactors in Protein Turnover and Transcriptional Regulation

Reyhaneh Salehi-Tabar, Babak Mirmar, Hilary Wong, Vassil Dimitrov, Natasha Rochel, and John H. White

## CANCER GENES AND NETWORKS

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### CREBBP/EP300 Bromodomain Inhibition Affects the Proliferation of AR-Positive Breast Cancer Cell Lines

Veronica Garcia-Carpizo, Sergio Ruiz-Llorente, Jacinto Sarmentero, Ana Gonzalez-Corpas, and Maria J. Barrero

### Multiclonality and Marked Branched Evolution of Low-Grade Endometrioid Endometrial Carcinoma

Lorena Lazo de la Vega, Mia C. Samaha, Kevin Hu, Nolan R. Bick, Javed Siddiqui, Daniel H. Hovelson, Chia-Jen Liu, Cody S. Carter, Kathleen R. Cho, Andrew P. Scallis, and Scott A. Tomlins

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## CANCER "-OMICS"

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## CELL FATE DECISIONS

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### Ovarian Tumor Cell Expression of Claudin-4 Reduces Apoptotic Response to Paclitaxel

Christopher Breed, Douglas A. Hicks, Patricia G. Webb, Carly E. Calimani, Benjamin G. Biles, Kian Behbahiti, and Heidi K. Baumgartner

### Combinations of Tyrosine Kinase Inhibitor and ERAD Inhibitor Promote Oxidative Stress–Induced Apoptosis through ATF4 and KLF9 in Medullary Thyroid Cancer

Rozita Bagheri-Yarmard, Krishna M. Sinha, Ling Li, Yue Lu, Gilbert J. Cote, Steven I. Sherman, and Robert F. Gagel

## GENOME MAINTENANCE

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### NF-κB and Poly (ADP-ribose) Polymerase 1 Form a Positive Feedback Loop that Regulates DNA Repair in Acute Myeloid Leukemia Cells

Ding Li, Yufei Luo, Xianling Chen, LingYu Zhang, Tingting Wang, Yingting Zhuang, Yingjuan Fan, Jianhua Xu, Yuanzhong Chen, and LiXian Wu

### The Antitumor Drugs Trabectedin and Lurbinectedin Induce Transcription-Dependent Replication Stress and Genome Instability

Emanuela Tumini, Emilia Herrera-Moyano, Marta San Martin-Alonso, Sonia Barroso, Carlos M. Galmarini, and Andrés Aguilera
CCL2 Is a Vascular Permeability Factor Inducing CCR2-Dependent Endothelial Retraction during Lung Metastasis
Marko Roblek, Darya Protsyuk, Paul F. Becker, Cristina Stefanescu, Christian Gorzelanny, Jesus F. Glaus Garzon, Lucia Knopfova, Mathias Heikenwalder, Bruno Luckow, Stefan W. Schneider, and Lubor Borsig

Reactive Oxygen Species (ROS)-Inducing Triterpenoid Inhibits Rhabdomyosarcoma Cell and Tumor Growth through Targeting Sp Transcription Factors
Ravi Kasiappan, Indira Jutooru, Kumaravel Mohankumar, Keshav Karki, Alexandra Lacey, and Stephen Safe

Interactions with Muscle Cells Boost Fusion, Stemness, and Drug Resistance of Prostate Cancer Cells
Berna Uygur, Evgenia Leikina, Kamran Melikov, Rafael Villasmil, Santosh K. Verma, Calvin P.H. Vary, and Leonid V. Chernomordik

Periprostatic Adipose Tissue Favors Prostate Cancer Cell Invasion in an Obesity-Dependent Manner: Role of Oxidative Stress
Victor Laurent, Aurélie Toulet, Camille Attané, Delphine Milhas, Stéphanie Dauvillier, Falek Zaidi, Emily Clement, Mathieu Cinato, Sophie Le Gonidec, Adrien Guérard, Camille Lehuédé, David Garandeau, Laurence Nieto, Edith Renaud-Gabardos, Anne-Catherine Piats, Philippe Valet, Bernard Malavaud, and Catherine Muller

Epigenetic control of cellular polarity has recently come under scrutiny as a potential driver of tumorigenesis and progression. The cover shows a whole mount immunofluorescence image of an intestinal cell organoid in which the scaffold protein Dlg1 had been disrupted (green: phalloidin; red: lysozyme; blue: DAPI). Loss of Dlg1 does not affect the cells’ ability to maintain polarity, but rather causes improper orientation of the mitotic spindle and loss of planar cell division, causing increased dwelling time in intestinal crypts. The authors suggest that delayed exit from the crypts allows for additional time to accumulate and retain mutations without increasing the overall mutation rate, thus contributing to a “tumor-permissive” environment in the intestine. Please see the article by Young and colleagues (beginning on page 686) for more information.