

Highlights of This Issue 1299

MCR RapidIMPACT

- 1301** A Massively Parallel Fluorescence Assay to Characterize the Effects of Synonymous Mutations on *TP53* Expression
Geetha Bhagavatula, Matthew S. Rich, David L. Young, Maximillian Marin, and Stanley Fields

CELL DEATH AND SURVIVAL

- 1308** Synergistic Activity with NOTCH Inhibition and Androgen Ablation in ERG-Positive Prostate Cancer Cells
Ahmed A. Mohamed, Shyh-Han Tan, Charles P. Xavier, Shilpa Katta, Wei Huang, Lakshmi Ravindranath, Muhammad Jamal, Hua Li, Meera Srivastava, Eri S. Srivatsan, Taduru L. Sreenath, David G. McLeod, Alagarsamy Srinivasan, Gyorgy Petrovics, Albert Dobi, and Shiv Srivastava
- 1318** Tuberin Regulates Prostaglandin Receptor-Mediated Viability, via Rheb, in mTORC1-Hyperactive Cells
Chenggang Li, Xiaolei Liu, Yang Liu, Erik Zhang, Kantha Medepalli, Kouhei Masuda, Na Li, Kathryn A. Wikenheiser-Brokamp, Andrew Osterburg, Michael T. Borchers, Elizabeth J. Kopras, David R. Plas, Julia Sun, David N. Franz, Jamie K. Capal, Maxwell Mays, Yang Sun, David J. Kwiatkowski, Anya Alayev, Marina K. Holz, Darcy A. Krueger, Brian J. Siroky, and Jane J. Yu

CHROMATIN, EPIGENETICS, AND RNA REGULATION

- 1331** Interferon-Stimulated Genes Are Transcriptionally Repressed by PR in Breast Cancer
Katherine R. Walter, Merit L. Goodman, Hari Singhal, Jade A. Hall, Tianbao Li, Sean M. Holloran, Gloria M. Trinca, Katelin A. Gibson, Victor X. Jin, Geoffrey L. Greene, and Christy R. Hagan
- 1341** FOXC1 Regulates FGFR1 Isoform Switching to Promote Invasion Following TGF β -Induced EMT
Alex Hopkins, Mackenzie L. Coatham, and Fred B. Berry

GENOMICS

- 1354** Integrative CAGE and DNA Methylation Profiling Identify Epigenetically Regulated Genes in NSCLC
Masafumi Horie, Bogumil Kaczkowski, Mitsuhiro Ohshima, Hirota Matsuzaki, Satoshi Noguchi, Yu Mikami, Marina Lizio, Masayoshi Itoh, Hideya Kawaji, Timo Lassmann, Piero Carninci, Yoshihide Hayashizaki, Alistair R.R. Forrest, Daiya Takai, Yoko Yamaguchi, Patrick Micke, Akira Saito, and Takahide Nagase

METABOLISM

- 1366** *ERR α* Maintains Mitochondrial Oxidative Metabolism and Constitutes an Actionable Target in PGC1 α -Elevated Melanomas
Chi Luo, Eduardo Balsa, Ajith Thomas, Maximilian Hatting, Mark Jedrychowski, Steven P. Gygi, Hans R. Widlund, and Pere Puigserver

ONCOGENES AND TUMOR SUPPRESSORS

- 1376** Phostine PST3.1a Targets MGAT5 and Inhibits Glioblastoma-Initiating Cell Invasiveness and Proliferation
Zahra Hassani, Ali Saleh, Soumaya Turpault, Salim Khiati, Willy Morelle, Jacques Vignon, Jean-Philippe Hugnot, Emmanuelle Uro-Coste, Philippe Legrand, Marcel Delaforge, Séverine Loiseau, Ludovic Clarion, Marc Lecouvey, Jean-Noël Volle, David Virieux, Jean-Luc Pirat, Hugues Duffau, and Norbert Bakalara
- 1388** Homeobox Transcription Factor NKX2-1 Promotes *Cyclin D1* Transcription in Lung Adenocarcinomas
Masanori Harada, Satoshi Sakai, Tatsuya Ohhata, Kyoko Kitagawa, Masashi Mikamo, Koji Nishimoto, Chiharu Uchida, Hiroyuki Niida, Yojiro Kotake, Haruhiko Sugimura, Takafumi Suda, and Masatoshi Kitagawa
- 1398** p120-Catenin Downregulation and *PIK3CA* Mutations Cooperate to Induce Invasion through MMP1 in HNSCC
Michal Kidacki, Heather L. Lehman, Michelle V. Green, Joshua I. Warrick, and Douglas B. Stairs

Table of Contents

1410 Molecular Effects of Stromal-Selective Targeting by uPAR-Retargeted Oncolytic Virus in Breast Cancer

Yuqi Jing, Valery Chavez, Yuguang Ban, Nicolas Acquavella, Doraya El-Ashry, Alexey Pronin, Xi Chen, and Jaime R. Merchan

1431 BRAF-inhibitor Associated MEK Mutations Increase RAF-Dependent and -Independent Enzymatic Activity

Caroline M. Emery, Kelli-Ann Monaco, Ping Wang, Marissa Balak, Alyson Freeman, Jodi Meltzer, Scott M. Delach, Daniel Rakiec, David A. Ruddy, Joshua M. Korn, Jacob Haling, Michael G. Acker, and Giordano Caponigro

SIGNAL TRANSDUCTION

1421 Inhibition of Ciliogenesis Promotes Hedgehog Signaling, Tumorigenesis, and Metastasis in Breast Cancer

Nadia B. Hassounah, Martha Nunez, Colleen Fordyce, Denise Roe, Ray Nagle, Thomas Bunch, and Kimberly M. McDermott

1445 EGFR Downregulation after Anti-EGFR Therapy Predicts the Antitumor Effect in Colorectal Cancer

Yasuyuki Okada, Tetsuo Kimura, Tadahiko Nakagawa, Koichi Okamoto, Akira Fukuya, Takahiro Goji, Shota Fujimoto, Masahiro Sogabe, Hiroshi Miyamoto, Naoki Muguruma, Yasushi Tsuji, Toshiya Okahisa, and Tetsuji Takayama

1455 The Tissue-Reconstructing Ability of Colon CSCs Is Enhanced by FK506 and Suppressed by GSK3 Inhibition

Ryo Ishida, Michiyo Koyanagi-Aoi, Nobu Oshima, Yoshihiro Kakeji, and Takashi Aoi

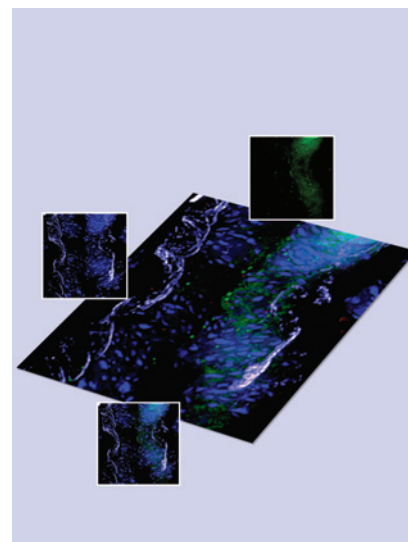


AC icon indicates AuthorChoice

For more information please visit www.aacrjournals.org

ABOUT THE COVER

Most vertebrate cells contain immotile microtubule-based organelles known as primary cilia. Previous study has suggested the importance of Hedgehog signaling to ciliogenesis, and that inhibition of this process promotes more aggressive disease phenotypes. Here, genetically engineered mouse models were used to define the role of Hedgehog signaling in the context of inhibition of ciliogenesis. The cover displays immunofluorescent images of mammary tissue from the *Ift88*^{fl/fl}/PyMT⁺ transgenic mouse model. *Ift88* is required for intraflagellar transport and loss has been shown to inhibit ciliogenesis. The left image is immunostained for a myoepithelial marker (CK5, white) and nuclei (Hoechst, blue), the upper middle image is immunostained for the cilia marker (ARL13b red) and centrosome marker (γ -tubulin, green), and the lower image is a merged image. The larger center image is an artistic rendering of the merged image. Please see the article by Hassounah and colleagues (beginning on page 1421) for more details.



Molecular Cancer Research

15 (10)

Mol Cancer Res 2017;15:1299-1466.

Updated version Access the most recent version of this article at:
<http://mcr.aacrjournals.org/content/15/10>

E-mail alerts [Sign up to receive free email-alerts](#) related to this article or journal.

Reprints and Subscriptions To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions To request permission to re-use all or part of this article, use this link <http://mcr.aacrjournals.org/content/15/10>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.