# MOLECULAR CANCER RESEARCH

## TABLE OF CONTENTS

### HIGHLIGHTS

933 Selected Articles from This Issue

### REVIEW

935 Exosomes in Breast Cancer – Mechanisms of Action and Clinical Potential
Tiantong Liu, Jagmohan Hooda, Jennifer M. Atkinson, Theresa L. Whiteside, Steffi Oesterreich, and Adrian V. Lee

### PERSPECTIVE

946 A Parathyroid–Gut Axis: Hypercalcemia and the Pathogenesis of Gastrinoma in Multiple Endocrine Neoplasia 1
Wenzel M. Hackeng, Koen M.A. Dreijerink, G. Johan A. Offerhaus, and Lodewijk A.A. Brosens

### mcrRapidIMPACT

950 Radiomics Biomarkers Correlate with CD8 Expression and Predict Immune Signatures in Melanoma Patients

### CANCER GENES AND NETWORKS

957 Proteomic Analysis of Src Family Kinase Phosphorylation States in Cancer Cells Suggests Deregulation of the Unique Domain
Ana Ruiz-Saenz, Farima Zahedi, Elliott Peterson, Ashley Yoo, Courtney A. Dreyer, Danislav S. Spassov, Juan Oses-Prieto, Alma Burlingame, and Mark M. Moasser

### 968 L-Plastin Promotes Gastric Cancer Growth and Metastasis in a Helicobacter pylori cagA-ERK-SP1-Dependent Manner
Yong-Sheng Teng, Wan-Yan Chen, Zong-Bao Yan, Yi-Pin Lv, Yu-Gang Liu, Fang-Yuan Mao, Yong-Liang Zhao, Liu-Sheng Peng, Ping Cheng, Mu-Bing Duan, Weisan Chen, Yu Wang, Ping Luo, Quan-Ming Zou, Jun Chen, and Yuan Zhuang

### CANCER “-OMICS”

979 Loss of 9p21 Regulatory Hub Promotes Kidney Cancer Progression by Upregulating HOXB13
Maria Francesca Baietti, Peihua Zhao, Jonathan Crowther, Raj Nayan Sewduth, Linde De Troyer, Maria Debiec-Rychter, and Anna A. Sablina

991 Meta-Analysis and Systematic Review of the Genomics of Mucosal Melanoma
Natasa Broit, Peter A. Johansson, Chloe B. Rodgers, Sebastian T. Walpole, Felicity Newell, Nicholas K. Hayward, and Antonia L. Pritchard

### CELL FATE DECISIONS

1005 The Hippo Pathway Effector YAP Promotes Ferroptosis via the E3 Ligase SKP2
Wen-Huan Yang, Chao-Chieh Lin, Jianli Wu, Pei-Ya Chao, Kuan Chen, Po-Han Chen, and Jen-Tsan Chi

### GENOME MAINTENANCE

1015 Comprehensive Mutational Analysis of the BRCA1-Associated DNA Helicase and Tumor-Suppressor FANCJ/BACH1/BRIP1

Jennifer A. Calvo, Briana Fritchman, Desiree Hernandez, Nicole S. Persky, Cory M. Johannessen, Federica Piccioni, Brian A. Kelch, and Sharon B. Cantor

---

Downloaded from mcr.aacrjournals.org on September 10, 2021. © 2021 American Association for Cancer Research.
### TABLE OF CONTENTS

#### NEW HORIZONS IN CANCER BIOLOGY
1026  Development and Characterization of Novel Endoxifen-Resistant Breast Cancer Cell Lines Highlight Numerous Differences from Tamoxifen-Resistant Models  
Calley J. Jones, Malayannan Subramaniam, Michael J. Emch, Elizabeth S. Bruinsma, James N. Ingle, Matthew P. Goetz, and John R. Hawse

1040  Circulating Tumor Cell Genomic Evolution and Hormone Therapy Outcomes in Men with Metastatic Castration-Resistant Prostate Cancer  
Santosh Gupta, Susan Halabi, Gabor Kemeny, Monika Anand, Paraskevi Giannakakou, David M. Nanus, Daniel J. George, Simon G. Gregory, and Andrew J. Armstrong

#### SIGNAL TRANSDUCTION AND FUNCTIONAL IMAGING
1051  Paracrine Placental Growth Factor Signaling in Response to Ionizing Radiation Is p53-Dependent and Contributes to Radioreistance  
Tamara Kazimova, Fabienne Tschanz, Ashish Sharma, Irma Telarovic, Marco Wachtel, Gloria Pedot, Beat Schafer, and Martin Pruschy

1063  RAF-Mutant Melanomas Differentially Depend on ERK2 Over ERK1 to Support Aberrant MAPK Pathway Activation and Cell Proliferation  
Matthew S. Crowe, Tatiana Zavorotinskaya, Charles F. Voliva, Matthew D. Shirley, Yanqun Wang, David A. Ruddy, Daniel P. Rakic, Jeffery A. Engelman, Darrin D. Stuart, and Alyson K. Freeman

#### TUMOR MICROENVIRONMENT AND IMMUNOBIOLOGY
1076  Qa-1<sup>B</sup> Modulates Resistance to Anti-PD-1 Immune Checkpoint Blockade in Tumors with Defects in Antigen Processing  
Xiao Zhang, Erich Sabio, Chirag Krishna, Xiaoxiao Ma, Jingming Wang, Hui Jiang, Jonathan J. Havel, and Timothy A. Chan

1085  Neoadjuvant Chemotherapy Induces IL34 Signaling and Promotes Chemoresistance via Tumor-Associated Macrophage Polarization in Esophageal Squamous Cell Carcinoma  
Shotaro Nakajima, Kosaku Mimura, Katsuhiro Saito, Aung Kyi Thar Min, Eisei Endo, Leo Yamada, Koji Kase, Naoto Yamauchi, Takuro Matsumoto, Hiroshi Nakano, Yasuyuki Kanke, Hirokazu Okayama, Motonobu Saito, Prajwal Neupane, Zenichiro Saze, Yohei Watanabe, Hiroyuki Hanayama, Suguru Hayase, Akinao Kaneta, Tomoyuki Momma, Shinji Ohki, Hiromasa Ohira, and Koji Kono

#### EDITOR’S NOTE
1096  Editor’s Note: Focal Adhesion Kinase Controls Aggressive Phenotype of Androgen-Independent Prostate Cancer

---

**ABOUT THE COVER**

Pathological assessment of the tumor-immune microenvironment is a key step in the development of a therapeutic approach for metastatic melanoma, which can respond to targeted therapy or immune checkpoint blockade depending on the specific features of the tumor. However, biopsy of metastatic lesions is invasive, and the localization of metastatic lesions to difficult-to-access sites complicates the sampling process. The cover depicts multiplex immunofluorescence of a melanoma biopsy (PD-L2/FITC in green, PD-L1/Cy3 in yellow, CD4/Cy5 in red, and CD8/Cy7 in purple). In their report, Aoude and colleagues demonstrate a novel radiomics approach to reliably qualify the molecular features of melanoma metastases normally assessed by biopsy, demonstrating that PET/CT imaging markers correlate with known biomarkers of patient response to targeted therapy and immune checkpoint blockade. The authors argue that this approach presents a noninvasive and cost-effective method to establish prognoses for metastatic melanoma patients. For more information, see the article on page 950.
Molecular Cancer Research

19 (6)


Updated version  Access the most recent version of this article at: http://mcr.aacrjournals.org/content/19/6

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/19/6. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.