### IN THIS ISSUE
Highlighted research articles ......................... 1207

### NEWS IN BRIEF
Important news stories affecting the community ................. 1210

### NEWS IN DEPTH
Q&A: Louis Staudt on Genomics Initiatives ............... 1213
Moving Ahead with Personalized Mouse Models ............ 1214

### RESEARCH WATCH
Selected highlights of recent articles of exceptional significance from the cancer literature .................. 1215

### ONLINE
For more News and Research Watch, visit Cancer Discovery online at http://CDnews.aacrjournals.org.

### VIEWS
In The Spotlight
- Small RNAs Deliver a Blow to Ovarian Cancer .............. 1220
  A. Kasinski and F.J. Slack
  See article, p. 1302

- Androgen Receptor Signaling Fuels DNA Repair and Radioresistance in Prostate Cancer .............. 1222
  J. Bartek, M. Mistrik, and J. Bartkova
  See article, p. 1245
  See article, p. 1254

- Tumor-Promoting and -Suppressive Roles of Autophagy in the Same Mouse Model of BrafV600E-Driven Lung Cancer ..................... 1225
  S. Chen and J.-L. Guan
  See article, p. 1272

### REVIEW
Misregulation of Pre-mRNA Alternative Splicing in Cancer ..................... 1228
J. Zhang and J.L. Manley

### RESEARCH BRIEFS
Clinical Response to a Lapatinib-Based Therapy for a Li-Fraumeni Syndrome Patient with a Novel HER2V659E Mutation ................. 1238

Précis: Tumors of a patient with a germline TP53 mutation were found to harbor alterations in either EGFR or HER2 and were responsive to targeted therapy with lapatinib.

### ANDRENOGEN RECEPTOR SIGNALING REGULATES DNA REPAIR IN PROSTATE CANCERS

Précis: Antiandrogen therapy suppresses androgen receptor–mediated induction of DNA repair genes, resulting in increased DNA damage and enhanced radiosensitivity of prostate cancer cells.
See commentary, p. 1222

### A HORMONE–DNA REPAIR CIRCUIT GOVERNS THE RESPONSE TO GENOTOXIC INSULT
J.F. Goodwin, M.J. Schiewer, J.L. Dean, R.S. Schrecengost, R. de Leeuw, S. Han, T. Ma, R.B. Den, A.P. Dicker, F.Y. Feng, and K.E. Knudsen

Précis: Androgen receptor activation in response to DNA damage promotes double-strand break repair via DNAPKcs and confers resistance to genotoxic insult in advanced prostate cancer.
See commentary, p. 1222
Autophagy Sustains Mitochondrial Glutamine Metabolism and Growth of Brafv600E-Driven Lung Tumors .......... 1272
Précis: Autophagy ablation suppresses the growth of Brafv600E-driven lung tumors by limiting glutamine availability and impairing mitochondrial function.
See commentary, p. 1225

Targeting the Wnt Pathway in Synovial Sarcoma Models ................. 1286
Précis: Constitutive activation of WNT/β-catenin signaling by the SYT-SSX oncogene is required for the initiation and progression of synovial sarcoma.

For more News and Research Watch, visit Cancer Discovery online at http://CDnews.aacrjournals.org. Online-only News stories include the following:
• Database Covers Cell Line/Compound Interactions
• Finasteride Doesn’t Shorten Survival in Long-term Study
• Abraxane Approved for Metastatic Pancreatic Cancer
• Response-Guided Neoadjuvant Approach Offers Benefits
• Three More Drugs Judged “Breakthroughs”
• Institute of Medicine Calls for Improved Evidence Base

AC icon indicates Author Choice
For more information please visit http://www.aacrjournals.org

Strohecker and colleagues found that deletion of the essential autophagy gene Atg7 initially induced oxidative stress and accelerated the formation of Brafv600E-driven lung tumors but eventually slowed tumor growth and prolonged survival. Atg7 deficiency led to an accumulation of morphologically and functionally defective mitochondria in Brafv600E-driven lung tumors and rendered tumor cells dependent on exogenously supplied glutamine for survival. Brafv600E-driven tumors may therefore become addicted to autophagy to sustain cell survival and proper mitochondrial function through the clearance of damaged organelles and recycling of metabolites for biosynthesis, and may thus be sensitive to autophagy inhibitors. For details, please see the article by Strohecker and colleagues on page 1272.