Clinical Response to a Lapatinib-Based Therapy for a Li-Fraumeni Syndrome Patient with a Novel HER2 \(^{V659E}\) 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.

Androgen Receptor Signaling Regulates DNA Repair in Prostate Cancers ............ 1245


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

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 Braf\(^{V600E}\)-Driven Lung Cancer ............ 1225

S. Chen and J.-L. Guan

See article, p. 1272

A Hormone–DNA Repair Circuit Governs the Response to Genotoxic Insult ............ 1254

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
Strohecker and colleagues found that deletion of the essential autophagy gene Atg7 initially induced oxidative stress and accelerated the formation of Braf\(^{V600E}\)-driven lung tumors but eventually slowed tumor growth and prolonged survival. Atg7 deficiency led to an accumulation of morphologically and functionally defective mitochondria in Braf\(^{V600E}\)-driven lung tumors and rendered tumor cells dependent on exogenously supplied glutamine for survival. Braf\(^{V600E}\)-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.

### Therapeutic Synergy between microRNA and siRNA in Ovarian Cancer Treatment


**Précis:** Combined inhibition of EPHA2 using siRNA and miR-520d-3p synergistically suppresses ovarian cancer tumorigenesis.

See commentary, p. 1220
**CANCER DISCOVERY**

3 (11)


<table>
<thead>
<tr>
<th>Updated version</th>
<th>Access the most recent version of this article at: <a href="http://cancerdiscovery.aacrjournals.org/content/3/11">http://cancerdiscovery.aacrjournals.org/content/3/11</a></th>
</tr>
</thead>
</table>

- **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](mailto:pubs@aacr.org).

- **Permissions**  
  To request permission to re-use all or part of this article, contact the AACR Publications Department at [permissions@aacr.org](mailto:permissions@aacr.org).