**RESEARCH BRIEFS**

**Clinical Response to a Lapatinib-Based Therapy for a Li-Fraumeni Syndrome Patient with a Novel HER2 V659E Mutation**


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**


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

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**VIEWS**

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Small RNAs Deliver a Blow to Ovarian Cancer...

A. Kasinski and F.J. Slack

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Androgen Receptor Signaling Fuels DNA Repair and Radioresistance in Prostate Cancer...

J. Bartek, M. Mistrik, and J. Bartkova

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Tumor-Promoting and -Suppressive Roles of Autophagy in the Same Mouse Model of BrafV600E-Driven Lung Cancer...

S. Chen and J.-L. Guan

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**RESEARCH ARTICLES**

Misregulation of Pre-mRNA Alternative Splicing in Cancer...

J. Zhang and J.L. Manley

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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.

**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

For more News and Research Watch, visit Cancer Discovery online at http://CDnews.aacrjournals.org. Online-only News stories include the following:

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-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

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**ON THE COVER**

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