DNA-Damage Response during Mitosis Induces Whole-Chromosome Mis segregation . . . . . . . . . . . . . . . 1281
S.F. Bakhoum, L. Kabeche, J.P. Murnane, B.I. Zaki, and D.A. Compton

Précis: Activation of the DNA damage response during mitosis leads to whole chromosome segregation defects via PLK1/Aurora A-mediated stabilization of kinetochore-microtubule attachments.
See commentary, p. 1256

L-2-Hydroxyglutarate: An Epigenetic Modifier and Putative Oncometabolite in Renal Cancer . . . . . . . . . . . . . . . 1290

Précis: Accumulation of L-2-hydroxyglutarate in renal cell carcinoma as a result of somatic L2HGDH deficiency is associated with alterations in DNA and histone methylation.

Brain Tumor Cells in Circulation Are Enriched for Mesenchymal Gene Expression . . . . . . . . . . . . . . . . . . . . . . . . . . . 1299

Précis: Circulating tumor cells with invasive mesenchymal characteristics can be detected in patients with glioblastoma and may prove useful in disease monitoring.
See commentary, p. 1259
The Androgen-Regulated Protease TMPRSS2 Activates a Proteolytic Cascade Involving Components of the Tumor Microenvironment and Promotes Prostate Cancer Metastasis .......... 1310


Précis: The serine protease TMPRSS2 enhances androgen-driven prostate cancer metastasis by inducing HGF cleavage and activation of c-MET signaling, and may represent a potential therapeutic target.

See commentary, p. 1262

The Genomic Landscape of Pediatric Ewing Sarcoma .......... 1326


Précis: Pediatric Ewing sarcoma is characterized by few somatic alterations at diagnosis but frequently exhibits loss of STAG2 expression, which is correlated with metastatic progression.

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Genomic Landscape of Ewing Sarcoma Defines an Aggressive Subtype with Co-Association of STAG2 and TP53 Mutations .......... 1342


Précis: Ewing sarcoma tumors exhibit a low mutation rate but frequently harbor somatic mutations in STAG2, which are mutually exclusive with CDKN2A loss and correlate with TP53 mutations and poor prognosis.