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.

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.

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ON THE COVER
Using next-generation sequencing, Crompton, Stewart, and colleagues found that Ewing sarcoma tumors were relatively genetically stable, but exhibited recurrent loss of stromal antigen 2 (STAG2) expression, which was associated with metastatic progression. In addition, relapsed tumors displayed an increased mutation rate compared with tumors at diagnosis. Using whole-genome sequencing, Tirode, Surdez, and colleagues also detected few somatic alterations in Ewing sarcoma and identified STAG2 as the most frequently mutated gene. STAG2 mutations were mutually exclusive with CDKN2A deletion, but often coexisted with TP53 mutations, were associated with poor outcome, and expanded at tumor relapse. Together, these findings provide insight into the genomic landscape of Ewing sarcoma and suggest potential therapeutic targets. For details, please see the article by Crompton, Stewart, and colleagues on page 1326 and the article by Tirode, Surdez, and colleagues on page 1342.

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