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These studies identify a role for CXCL1/CXCR2 and the tumor microenvironment in the development of RCC. This study shows that manipulation of POT1 expression in glioma has sex-specific effects on tumorigenesis and associated immune signatures. This study provides key insights into the potential for using MEKi combined with PARPi and anti-PD-L1 for the treatment of all mutant KRAS tumors. This study unveils paradoxical roles for MSI1, underlining its importance in facilitating intestinal regeneration upon injury but also unraveling its new function in drug-resistant colorectal cancer stem cells. This study demonstrates that the periodontal pathogen _P. gingivalis_ can promote colorectal tumorigenesis by recruiting myeloid cells and creating a proinflammatory tumor microenvironment.
The transcriptomic and proteomic profile of MMR-deficient intestinal stem cells displays a unique set of genes with potential roles as biomarkers of cancer initiation and early progression.

This study shows that BRCA1-deficient cells can give rise to multiple genomically and functionally heterogeneous PARPi-resistant clones, which are associated with various vulnerabilities that can be targeted in a mechanism-specific manner.

This study describes a novel A-to-I RNA editing signature as a prognostic and predictive biomarker in advanced gastric cancer, providing a new tool to improve patient stratification and response to therapy.

This study finds that bisphosphonate use among women with a history of DCIS is associated with lower risk of subsequent invasive breast cancer, providing a potential preventative approach for this high-risk population.

POT1 is a member of the shelterin complex, which binds telomeres and regulates their extension. Germline mutations in POT1 confer increased risk to a host of cancers, including glioma. Using native mouse models of glioma, it was found that deletion of POT1 had sex-specific effects on tumorigenesis, with females exhibiting decreased survival compared to males. Transcriptomic analysis and immunostaining validation studies revealed sex-specific changes in immune populations, with females exhibiting decreased expression of microglia/macrophage markers. Artwork by Emma Vidal. For details, see article by Jalali and colleagues on page 2703.