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Précis: C-Raf, but not B-Raf, is required for K-Ras-induced tumorigenesis and should be considered an important therapeutic target.

Temporal Dissection of Tumorigenesis in Primary Cancers.
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Précis: Time-lapse video microscopy shows that ovarian cancer spheroids clear the mesothelium via myosin-generated force.

PTEN is a Major Tumor Suppressor in Pancreatic Ductal Adenocarcinoma and Regulates an NF-κB–Cytokine Network .................158
Précis: PTEN is shown to be a tumor suppressor in human PDAC and controls NF-κB-dependent transcription via PI3K-AKT signaling.

High Frequency of PIK3R1 and PIK3R2 Mutations in Endometrial Cancer Elucidates a Novel Mechanism for Regulation of PTEN Protein Stability .................170
Précis: High frequency of mutations in endometrioid endometrial cancers leads to PI3K pathway activation.

Cheung and colleagues report aberrations in the PI3K pathway occur in a majority of endometrioid endometrial cancers, with coordinate mutations of multiple pathway members being more common than predicted by chance. Multiple gain-of-function PIK3R1 and PIK3R2 mutations result in the stabilization of PTEN protein with likely contribution from the ubiquitin-proteasome degradative pathway, as depicted by the cover. For details, please see the article by Cheung and colleagues on page 158.