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Multifunctional T-cell Analyses to Study Response and Progression in Adoptive Cell Transfer Immunotherapy .......... 418
Précis: Single-cell immune monitoring of patients receiving adoptive cell transfer therapy reveals time-dependent changes in adoptively transferred and endogenous T-cell functionality.
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Targeted Inhibition of the Molecular Chaperone Hsp90 Overcomes ALK Inhibitor Resistance in Non–Small Cell Lung Cancer .......... 430
Précis: Inhibition of HSP90 with ganetespib may represent an alternative or complementary therapeutic strategy for treatment of ALK-positive non-small cell lung cancer.

RHOA-FAK Is a Required Signaling Axis for the Maintenance of KRAS-Driven Lung Adenocarcinomas .......... 444
Précis: RHOA-FAK signaling is a genotype-specific therapeutic target in aggressive KRAS-mutant, INK4A/ARF-deficient non-small cell lung cancers.

Primary Melanoma of the CNS in Children Is Driven by Congenital Expression of Oncogenic NRAS in Melanocytes ....... 458
Précis: Early embryonic NRAS mutation promotes melanocyte proliferation and induces early-onset primary melanoma of the central nervous system but not cutaneous melanoma.
See commentary, p. 382

Tabernero and colleagues report the results of a phase I dose-escalation and expansion study assessing the safety, activity, and pharmacodynamics of ALN-VSP, a lipid nanoparticle containing siRNAs against vascular endothelial growth factor A (VEGFA) and kinesin spindle protein (KSP), in patients with advanced solid tumors with liver involvement. One patient with metastatic endometrial cancer had a complete response and 3 patients (2 with metastatic renal cell carcinoma and 1 with metastatic pancreatic neuroendocrine tumor) experienced disease stabilization. Post-treatment tumor biopsies showed evidence of intratumoral delivery, increased VEGFA mRNA cleavage, and decreased VEGFA and KSP mRNA levels compared with pre-treatment biopsy samples, consistent with an on-target response and an RNAi mechanism of action. For details, please see the article by Tabernero and colleagues on page 406.