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### IN THE SPOTLIGHT

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Blood-Based Analyses of Cancer: Circulating Tumor Cells and Circulating Tumor DNA .... 650
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### RESEARCH ARTICLES

- The ALK Inhibitor Ceritinib Overcomes Crizotinib Resistance in Non–Small Cell Lung Cancer .... 662

  Précis: Ceritinib, a next-generation ALK inhibitor, has potent activity in preclinical models of crizotinib-naïve and crizotinib-resistant ALK-rearranged non–small cell lung cancer.

  See commentary, p. 634

- Immune Cell–Poor Melanomas Benefit from PD-1 Blockade after Targeted Type I IFN Activation .................. 674

  Précis: Type I IFN–associated inflammatory pathway activation combined with antibody blockade of the T-cell immunoinhibitory receptor PD-1 improves immune surveillance of melanomas.

- Inflammation-Induced NFATC1–STAT3 Transcription Complex Promotes Pancreatic Cancer Initiation by Kras6120 ............... 688

  Précis: Type I IFN–associated inflammatory pathway activation combined with antibody blockade of the T-cell immunoinhibitory receptor PD-1 improves immune surveillance of melanomas.

- VEGFA Genomic Amplification Tailors Treatment of HCCs with Sorafenib .................. 640
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- EML4–ALK Fusions: Propelling Cancer but Creating Exploitable Chaperone Dependence ........ 642
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Précis: NFATC1 expression is induced by inflammation and cooperates with KRAS in pancreatic carcinogenesis by forming complexes with STAT3 at enhancer regions that regulate oncogenic gene networks.

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Friboulet and colleagues report that ceritinib, a next-generation ALK inhibitor that is more selective and potent than crizotinib, is active in preclinical models of both crizotinib-naïve and crizotinib-resistant non-small cell lung cancer (NSCLC). Ceritinib retained activity against the most common crizotinib-resistant ALK mutants, although some secondary ALK mutations did confer resistance to both crizotinib and ceritinib. Structural analyses provided a mechanistic basis for these findings, as the most common secondary ALK mutations that inhibit binding of crizotinib are not predicted to impair ceritinib binding, but other mutations, which the authors have identified in patients with acquired resistance to ceritinib, are predicted to reduce ceritinib binding through steric hindrance or conformational changes of the ALK catalytic domain. For details, please see the article by Friboulet and colleagues on page 662.