Efficacy of BGJ398, a Fibroblast Growth Factor Receptor 1–3 Inhibitor, in Patients with Previously Treated Advanced Urothelial Carcinoma with FGFR3 Alterations .. 812


Précis: The FGFR1–3 inhibitor BGJ398 achieved responses with an acceptable safety profile in an expansion cohort of 67 patients with metastatic FGFR3-altered urothelial carcinoma.

STK11/LKB1 Mutations and PD-1 Inhibitor Resistance in KRAS-Mutant Mutant Lung Adenocarcinoma .. 822


Précis: In patients with KRAS-mutant lung adenocarcinoma, co-occurring alterations in STK11 conferred primary resistance to PD-1 blockade, suggesting that genomic profiling may guide selection of patients likely to respond.

See commentary, p. 794
ON THE COVER

Skoulidis, Goldberg, Greenawalt, and colleagues linked STK11 mutations to PD-1 inhibitor resistance in KRAS-mutant lung cancer. Patients with lung cancer harboring co-occurring STK11 and KRAS alterations had a lower response rate to PD-1/PD-L1 blockade than patients with co-occurring KRAS and TP53 alterations or KRAS mutations alone. STK11 alterations were enriched in PD-L1-negative tumors with an intermediate to high tumor mutation burden. However, STK11 alterations were also associated with primary resistance to PD-1 blockade in patients with PD-L1-positive tumors. Stk11 deletion induced de novo resistance to PD-1 inhibition in a mouse model of KRAS-mutant lung adenocarcinoma. These results demonstrate that STK11 alterations confer primary resistance to PD-1/PD-L1 blockade and suggest that genomic profiling may identify patients likely to benefit from PD-1 blockade. For details, please see the article by Skoulidis, Goldberg, Greenawalt, and colleagues on page 822.
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Cancer Discov 2018;8:OF9-897.

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