



WEEKLY GI RESEARCH FORUM

**"Targeting the  
nuclear xenobiotic  
receptor CAR in  
liver cancer"**



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Activation of the nuclear xenobiotic receptor CAR promotes liver carcinogenesis in rodent models. We have found that reversing CAR activation in liver tumors by inverse agonist treatment blocks proliferation and induces apoptosis. These results suggest CAR as a therapeutic target for liver cancer, analogous to the estrogen receptor for breast cancer or the androgen receptor for prostate cancer.

*References:* (1) Activating CAR and  $\beta$ -catenin induces uncontrolled liver growth and tumorigenesis. Dong B, Lee JS, Park YY, Yang F, Xu G, Huang W, Finegold MJ, Moore DD. Nat Commun. 2015 Feb 9;6:5944. doi: 10.1038/ncomms6944. (2) Circadian Homeostasis of Liver Metabolism Suppresses Hepatocarcinogenesis. Kettner NM, Voicu H, Finegold MJ, Coarfa C, Sreekumar A, Putluri N, Katchy CA, Lee C, Moore DD, Fu L. Cancer Cell. 2016 Dec 12;30(6):909-924. doi: 10.1016/j.ccell.2016.10.007.

**OCT 22 • 4:00 PM**

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