

Name of Journal: *World Journal of Hepatology*

ESPS Manuscript NO: 31568

Manuscript Type: Editorial

Tumor reactive stroma in cholangiocarcinoma: the fuel behind cancer aggressiveness

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Abstract

Cholangiocarcinoma (CCA) is a highly aggressive epithelial malignancy still carrying a dismal prognosis, owing to early lymph node metastatic dissemination and striking resistance to conventional chemotherapy. Although mechanisms underpinning CCA progression are still a conundrum, it is now increasingly recognized that the desmoplastic microenvironment developing in conjunction with biliary carcinogenesis, recently renamed tumor reactive stroma (TRS), behaves as a paramount tumor-promoting driver.

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This type of cancer is difficult to diagnose, extremely aggressive, and has very poor prognosis. It is also

The stroma of cholangiocarcinoma tumors is made up of mostly cancer-associated Reactive