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Name of Journal: *World Journal of Hepatology*

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Inflammasome activation in decompensated liver cirrhosis.

José M González-Navajas

Abstract

Inflammation participates in the pathogenesis of many liver diseases, including liver cirrhosis. Certain inflammatory cytokines, such as IL-1 β and IL-18, are produced after the activation of a multiprotein complex known as the inflammasome. Activation of the inflammasome has been documented in several liver diseases, but its role in the development and progression of liver cirrhosis or the complications associated with this disease is still largely unknown. We have recently studied the impact of the inflammasome in the sterile inflammatory response that takes place in the ascitic fluid of patients with decompensated cirrhosis, providing evidence that activation of the *absent in melanoma 2* (AIM2) inflammasome is an important response in these patients. Ascitic fluid-derived macrophages were able to mount a very robust AIM2-mediated response even in the absence of a priming signal, which is usually required for the full activation of all the inflammasomes. In addition, high level of inflammasome activation in these patients was associated with a higher degree of liver disease and an increased incidence of spontaneous bacterial peritonitis (SBP). These results may help explain the exacerbated inflammatory response that usually occurs in patients with decompensated cirrhosis in the absence of detectable infection. Thus, inflammasomes should be considered as potential

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