

## Special Issue

# Mechanism of Cellular Signaling, Dysfunction and Drug Effects on Liver Diseases

### Message from the Guest Editor

The etiologies of liver disease are variable, including viral hepatitis, autoimmune hepatitis, and alcoholic liver disease. In the so-called “leaky gut”, the increased intestinal permeability to bacteria and their products is an important pathogenetic factor in major complications in patients with liver diseases. Pathological bacterial translocation (BT) is another factor contributing to the development of various complications. BT-induced inflammation prevents the synthesis of bile acids (BAs) in the liver through the inhibition of BA-synthesizing enzyme. A lower abundance of 7 $\alpha$ -dehydroxylating gut bacteria leads to the decreased conversion of primary to secondary BAs. Decreases in total and secondary BAs may play an important role in gut dysbiosis. In this Special Issue, we aim to explore important aspects of cellular signaling and cellular dysfunction in the pathophysiology and drug effects of various liver diseases. These approaches may help to shed further light on the future management of hepatology.

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### Guest Editor

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## International Journal of Molecular Sciences

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