

## Special Issue

# The Microbiome in Liver Disease: Current Issues and Future Perspectives

### Message from the Guest Editor

The human commensal microbiome is a complex and dynamic consortium of microorganisms intricately connected to human physiology in health and disease. The liver is a critical immune organ hosting a wealth of immune cells and processing microbial signals originating from the intestine at the crossroads of the portal and systemic circulations. Understanding the interplay between hepatic immunology and the microbiome has shed new light on the pathophysiology of liver diseases with significant epidemiological relevance. There is a wealth of clinical microbiome studies associating liver diseases with commensal microbial alterations. Of immense importance is the step from high-throughput sequencing establishing correlation to mechanistic studies proving causality and paving the way for therapeutic intervention. The present collection aims to identify recent advances in the understanding of microbiome-liver interactions in health and disease and its impact on the diagnosis and treatment of liver diseases, providing an up-to-date perspective.

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