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Genetics and Genomics of Liver Disease

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Deadline for manuscript
submissions:

closed (20 March 2021)

Message from the Guest Editor

Dear Colleagues,

Genetics and genomics influence the pathogenesis and outcome of liver disease, including viral hepatitis, alcoholic liver injury, nonalcoholic steatohepatitis, and autoimmune liver diseases. The recent development of the genome-wide approach, exome and whole-genome sequencing, and sequencing-based studies of gene expression have accelerated genetics and genomics research. Single nucleotide polymorphism is associated with the disease phenotype, treatment effect, and prognosis. Therefore, tailor-made strategies are utilized for more effective prevention and treatment, along with the recent pharmacological development, changing the treatment strategy and outcome of liver diseases. Sequencing-based studies and omics identify the therapeutic target of chronic liver disease and contribute to the development of biomarkers. This Special Issue widely calls for research involving human subjects and model organisms that investigate the impact of genetics and genomics on liver disease.

Dr. Hirokazu Takahashi
Guest Editor



mdpi.com/si/58077

Special Issue



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Message from the Editor-in-Chief

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