Special Issue

Advances in Pharmaceutics, Genomics, and Biotechnology for Liver Disease Therapy

Message from the Guest Editor

Liver disease incidence is rising globally, including MASLD, hepatitis, cirrhosis, and hepatocellular carcinoma, highlighting the urgent need for innovative treatments. Advances in pharmacology, genomics, and biotechnology are transforming diagnosis and therapy. New pharmacological approaches involve nanocarriers, immunomodulators, and antifibrotics to improve liver targeting and efficacy. Genomic tools like next-generation sequencing and GWAS enable personalized therapies, such as lipid nanoparticles tailored to genetic variants (e.g., CYP450, PNPLA3). Biotechnological innovations—like bioengineered liver scaffolds and exosome-based regenerative delivery—offer promising regenerative strategies. Integrating these disciplines enhances understanding and patient outcomes for complex liver conditions. This Special Issue aims to explore emerging approaches, expanding knowledge and guiding the development of novel therapeutics.

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