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Using Big Data to Discover Diagnostics and Therapeutics for Gastrointestinal and Liver Diseases

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## Using Big Data to Discover Diagnostics and Therapeutics for Gastrointestinal and Liver Diseases

Short title: Big data in gastroenterology and hepatology.

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Abbreviations: CMap, Connectivity Map; DNA, deoxyribonucleic acid; HCV, hepatitis C; HDAC, histone deacetylase; EHR, electronic health records; EBI, European Bioinformatics Institute; LINCS, Library of Integrated Network-based Cellular Signatures; MIC, maximal information coefficient; mRNA, messenger ribonucleic acid; NCBI, National Center for Biotechnology Information; RCT, randomized controlled trial; GI, gastrointestinal; HCC, hepatocellular carcinoma; NCI, National Cancer Institute; R&D, research and development; RNA, ribonucleic acid; HTS, high-throughput screening; QSAR, quantitative structure-activity relationship.

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