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Clinical Relevance of Bioinformatics in Liver Cancer

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Lecture : Bioinformatics approaches have been widely used to screen genetic changes at the genome level. Understanding the interaction between clinical informatics and bioinformatics helps in discovering and developing the new diagnostics and therapies for diseases.

Clinical bioinformatics is regarding the analysis and visualisation of complex medical datasets. It focus more on clinical informatics, including patient complaints, history, therapies, clinical symptoms and signs, physician's examinations, biochemical analyses, imaging profiles, pathologies and other measurements. In this field, computational and high experimental techniques are applied to identify agents in cancer diagnosis, treatment, prevention and control. The study of clinical bioinformatics tried to match disease complexity of patient information, clinical data, standard laboratory evaluations, brain imaging data and genetic data obtained from molecular profiling experiment. Clinical bioinformatics shows new path on the combination of clinical measurements.

Here, we will review clinical application of bioinformatics to liver cancer including hepatocellular carcinoma and intrahepatic cholangiocarcinoma. Further, integrative clinical and genetic analysis may lead to a more rational targeted treatment approach.