Exploring diverse analytical methods for identification of gallbladder cancer using bile as a specimen

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Bile juice, an aqueous sample containing various metabolic components such as bile salts, fatty acids, cholesterol, proteins, phospholipids, and bilirubin (total concentration of the metabolites: approximately 15%), is a useful and most informative specimen since its composition potentially varies depending on gallbladder (GB) pathological conditions. So, bile juice can be a versatile specimen for spectroscopy-based diagnosis of diverse GB-related diseases. With this motivation, diverse spectroscopic tools such as IR, NIR, SERS, LIBS, and mass spectrometry were employed for the analysis of bile samples and the discriminability of GB cancer in each case was evaluated. Also, the pros and cons of these methods were discussed.



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