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Manuscript Type: Review

**Disease Monitoring of hepatocellular carcinoma through metabolomics**

**Asem I Fitian, Roniel Cabrera**

### Abstract

We elucidate major pathways of hepatocarcinogenesis and accurate diagnostic metabolomic biomarkers of hepatocellular carcinoma (HCC) identified by contemporary HCC metabolomics studies, and delineate a model HCC metabolomics study design. A literature search was carried out on Pubmed for HCC metabolomics articles published in English. All relevant articles were accessed in full text. Major

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When using metabolomics, large sample sizes are needed for successful ... modified



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