

Internal Webinar

Investigating diet-dependent changes in lobar and sub-lobar functional heterogeneity of the liver

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Liver, the central metabolic tissue, maintains physiological homeostasis and determines organismal survival. Its functions are necessary for various processes including detoxification, synthesis of serum proteins, mineral and vitamin homeostasis. Liver in mice and humans are divided into different lobes and zones, which have been shown to have distinct structural and functional attributes. This phenomenon is termed as 'metabolic zonation'. Bulk molecular approaches combined with genetic perturbations have elucidated master regulators that maintain liver heterogeneity and metabolic zonation. However, if/how acute and chronic dietary/metabolic perturbations affect hepatic heterogeneity remains to be unraveled. Further, molecular players and pathways involved in maintaining liver heterogeneity have still not been completely elucidated. In the talk, I will be discussing our recent efforts towards addressing some of these questions.

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02:30 PM