

Sayeepriyadarshini “Sayee” Anakk

Associate Professor

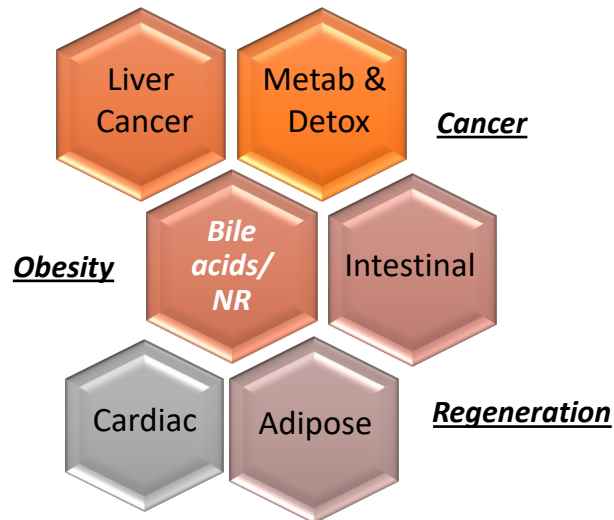
Co-Lead Cancer and Microbes, CCIL

Department of Molecular
& Integrative Physiology
[Affiliate Research Page](#)

Email: anakk@illinois.edu

Created: Dec 2023

The liver and the gut are responsible for processing, absorbing and storing of various nutrients. We focus on studying the different facets of bile acids from regulating whole body metabolism to organ-organ and host-microbiota cross talk.



Research Interests

- Elucidating sex differences in liver cancer risk and incidence
- Examining the IQGAP scaffold proteins in hepatic metabolism
- Investigate how the transcriptome, metabolome and lipidome change in liver diseases and diet-induced obesity

Current Projects

- Sex specific differences in bile acid-microbiota Interactions
- Investigating metabolism, detoxification, and polyploidy in the liver
- Uncovering lipid composition and their packing during diet-induced obesity

Interest Areas for Collaboration/Future Work

We have a strong interest in understanding organ-organ cross talk specifically those pertaining to liver-gut, liver-adipose and liver-kidney. We are also interested in non-canonical bile acid signaling as hormones in various extra hepatic tissues and expanding our expertise on BA-Microbiome Connections.

Keywords

Liver, small intestine, adipose, metabolism, bile acids, gut microbiota, diet, nutrition, obesity, mouse models, scaffold protein, nuclear receptor signaling in health and disease