"Elucidating the Molecular Sequence of Events in Parietal Cell Regeneration"

About this talk: Using a reversible parietal cell injury model, we have identified the optimal time frame for parietal cell regeneration, termed the Phoenix Stage. Histologic and transcriptomic analyses of the Phoenix Stage detail a molecular sequence of events that occurs in regenerating parietal cells. We identify orphan nuclear receptor ERRγ as the earliest lineage-specific maker to turn on in regenerating pre-parietal cells. Furthermore, gastric tissue-specific loss of ERRγ depletes parietal cell census. This work reveals a druggable candidate regulator of parietal cell specification and maturation which may be valuable to treat diseases characterized by a loss or dysregulation of parietal cells.

References: PMC7275895, PMC7327232,

"Interplay between diet and the gut microbiome in necrotizing enterocolitis (NEC)"

About this talk: Two of the major risk factors of necrotizing enterocolitis (NEC) are diet and the gut microbiome composition. Using a preterm piglet model of NEC we investigate how diet influences the gut microbiome and leads to protection or the pathogenesis of this disease.

References: PMCID: PMC7146310, PMCID: PMC7027286, PMCID: PMC5116248

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