DDC
Texas Medical Center Digestive Diseases Center

# RESEARCH FORUM

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


**Maple Adkins- Threats**
Graduate Student
Pediatric Gastroenterology
Baylor College of Medicine


**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)"


**Valeria Melendez Hebib**
Graduate Student
Pediatrics - Nutrition
Baylor College of Medicine


**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


**Baylor Main Campus**
**DeBakey Building**
**Auditorium M112**

**Refreshments provided.**

**https://bcm.zoom.us/**
**Meeting ID: 951 0349 9512**
**Password: 2020**

# FEB 23
# 4:00 PM


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