Richard M. Peek, Jr., M.D.
Mina Cobb Wallace Professor of Medicine and Pathology, Microbiology, & Immunology
Director, Vanderbilt Digestive Diseases Research Center

8:00 – 8:25 am
Dysplastic stem cell plasticity in gastric carcinogenesis
Eunyoung Choi, Ph.D.
Assistant Professor of Surgery

8:25 – 8:50 am
LRIG1 Acts as a Tumor Suppressor in Mouse Intestinal Neoplasia via EGFR and via ERBB1-3 in BRAFV600E Colorectal Cancer
Hiroaki Niitsu, M.D., Ph.D.
Research Fellow, Division of Gastroenterology, Hepatology, and Nutrition

8:50 – 9:15 am
Recapitulating the epithelial diversity of the crypt-villus axis
Ryan Conder, Ph.D., Associate Director, Gastrointestinal Technologies
Martin Stahl, Ph.D., Scientist, Research and Development
Stem Cell Technologies

9:15 – 9:40 am
Impact of Myosin Vb loss on hyperproliferation and cell lineage change in the intestinal epithelia
Izuki Kaji, Ph.D.
Assistant Professor of Surgery

9:40 – 10:05 am
Metaplasia-induced epithelial heterogeneity directs pancreatic tissue injury and recovery
Kathleen DelGiorno, Ph.D.
Assistant Professor of Cell and Developmental Biology

10:05 – 10:20 am
Break

10:20-11:30 am
Poster Presentations

11:30 am – 12:15 pm
Lunch

12:15 – 12:40 pm
Cellular plasticity in human and mouse colon pre-cancer genesis
Ken Lau, Ph.D.
Associate Professor of Cell and Developmental Biology

12:40 – 1:05 pm
Age mosaicism revealed by multi-scale microscopy
Rafael Arrojo e Drigo, Ph.D.
Research Assistant Professor of Molecular Physiology and Biophysics

1:05 – 1:30 pm
Combinatorial transcriptional profiling of mouse and human enteric neurons identifies shared and disparate neuronal subtypes in situ
Michelle Southard-Smith, Ph.D.
Professor of Medicine, Division of Genetic Medicine

1:30 pm – 1:45 pm
Break

1:45 – 2:45 pm
Keynote Speaker
Neuronal diversity in the enteric nervous system – from development to functional circuits
Ulrika Marklund, Ph.D.
Assistant Professor of Medicine
Department of Medical Biochemistry and Biophysics
Karolinska Institutet
Richard M. Peek, Jr., M.D.
Mina Cobb Wallace Professor of Medicine and Pathology, Microbiology, & Immunology
Director, Vanderbilt Digestive Diseases Research Center

8:00 – 8:25 am

T cell cytokines and the gastric epithelium during Helicobacter pylori infection
Holly M. Algood, Ph.D.
Associate Professor of Medicine and Pathology, Microbiology, and Immunology

8:25 – 8:50 am

How to thrive in the inflamed gut: lessons from Salmonella-induced gastroenteritis
Mariana X. Byndloss, D.V.M., Ph.D.
Assistant Professor of Pathology, Microbiology, and Immunology

8:50 – 9:15 am

Human Rotavirus diversity and potential escape mechanisms
Kristin M. Ogden, Ph.D.
Assistant Professor of Pediatrics
and Pathology, Microbiology, and Immunology

9:15 – 9:40 am

Human gut microbiome viewed across ethnicity in the United States
Seth R. Bordenstein, Ph.D.
Professor of Biological Sciences and Pathology, Microbiology, and Immunology
Centennial Endowed Chair in Biological Sciences

9:40 – 10:05 am

Targeting antivirals to current and future zoonotic Coronavirus Infections
Mark R. Denison, M.D.
Craig-Weaver Professor of Pediatrics
Edward Claiborne Stahlman Chair in Pediatric Physiology and Cell Metabolism
Director, Division of Pediatric Infectious Diseases

10:05 – 10:30 am

ePosters (Jeremy, Mary, Sarah, Elizabeth, Michelle, Yash)

10:30 am – 12:15 pm

Poster Session/Lunch

12:15 – 12:40 pm

A structural analysis of the Clostridioides difficile transferase toxin
Dana Borden Lacy, Ph.D.
Professor of Pathology, Microbiology, and Immunology and Biochemistry
Edward and Nancy Fody Chair in Pathology

12:40 – 1:05 pm

The battle for nutrients during the pathogenesis of Clostridioides difficile infection
Eric P. Skaar, Ph.D.
Professor of Pathology, Microbiology and Immunology
Ernest W. Goodpasture Chair in Pathology

1:05 – 1:30 pm

The contribution of Toxin A to C. difficile colitis
David M. Aronoff, M.D.
Professor of Medicine and Pathology, Microbiology, and Immunology
Addison B. Scoville Jr. Chair in Medicine

1:30 pm – 1:45 pm

Break

1:45 – 2:45 pm

Keynote Speaker

Crosstalk between virulence & fitness in the microscopic hideouts of H. pylori infection
Manuel R. Amieva, M.D., Ph.D.
Professor of Pediatric Infectious Diseases and Microbiology & Immunology
Stanford University
2019-2020 Vanderbilt Digestive Disease Research Center (VDDRC) Retreat

*Obesity, Metabolism, and Nutrition*

**Agenda**

**Wednesday, March 27, 2019**

9:00 a.m. – 4:00 p.m.

Student Life Center Ballroom AB

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9:00 am  
Welcome  
Richard M. Peek, Jr., M.D.  
Mina Cobb Wallace Professor of Medicine and Cancer Biology  
Director, Vanderbilt Digestive Diseases Research Center

9:05 – 9:30 am  
*Toward Obesity Precision Medicine: Promise of Glucagon-Like Peptide 1 Receptor*  
Kevin Niswender, Ph.D., M.D.  
Associate Professor of Medicine, Division of Endocrinology and Diabetes

9:30 – 9:55 am  
*Glp-1 and weight loss – We know it works, but how?*  
Julio Ayala, Ph.D.  
Associate Professor, Molecular Physiology & Biophysics

9:55 – 10:20 am  
*Immune-Mediated Mechanisms in Obesity-Accelerated Disease*  
Alyssa Hasty, Ph.D.  
Professor of Molecular Physiology and Biophysics

10:20 – 10:45 am  
*Adipose Tissue CD4+ and CD8+ T cell profiles differ by Glucose Tolerance in HIV*  
Celestine Wanjalla, M.D., Ph.D.  
Instructor in Infectious Diseases

10:45 – 11:15 am  
eposters

11:15 am – 1:00 pm  
Lunch/Poster Session

1:00 – 1:25 pm  
*Lipid Peroxidation and the Gut Microbiome in Salt-Sensitivity and Cardiometabolic Disease*  
Annet Kirabo, D.V.M. M. Sc. Ph.D.  
Assistant Professor of Medicine, Division of Clinical Pharmacology

1:25 – 1:50 pm  
*N-acylethanolamides and Metabolic Syndrome*  
Sean Davies, Ph.D.  
Associate Professor of Pharmacology

1:50 – 2:15 pm  
*Interaction between diet and the microbiome in obesity and cardiometabolic health*  
Jane Ferguson, Ph.D.  
Assistant Professor of Medicine, Division of Cardiovascular Medicine

2:15 pm - 2:40 pm  
*Alterations in Fatty Acids Correlate with Cytokines and Clinical Disease Activity in IBD*  
Lori Coburn, M.D.  
Assistant Professor of Medicine, Division of Gastroenterology, Hepatology, and Nutrition

2:40 – 2:45 pm  
Break

2:45 – 3:45 pm  
Keynote Speaker  
*Current and future approaches to targeting the CNS for obesity therapy*  
Randy Seeley, Ph.D.  
Professor of Surgery, University of Michigan  
Director, Michigan Nutrition Obesity Research Center
2018-2019 Vanderbilt Digestive Disease Research Center (VDDRC) Retreat
Progenitor Cells, Development, Regeneration and pre-malignant lesions (PC)

Agenda
Wednesday, May 2, 2018
9:00 a.m. – 4:00 p.m.
Student Life Center Ballroom AB

9:00 am
Welcome
Richard M. Peek, Jr., M.D.
Mina Cobb Wallace Professor of Medicine and Cancer Biology
Director, Vanderbilt Digestive Diseases Research Center

9:05 – 9:35 am
Teasing apart lineage segregation in the ENS with inducible Sox10 alleles
E. Michelle Southard-Smith, Ph.D.
Associate Professor of Medicine and Cell and Developmental Biology

9:35 – 9:55 am
Utilizing molecular imaging to study precancerous pancreatic lesions
Jacob Houghton, Ph.D.
Assistant Professor of Radiology and Radiological Science

9:55 – 10:25 am
Deciphering the cellular biology of congenital pediatric diarrheal diseases
James R. Goldenring, M.D., Ph.D.
Professor of Surgery and Cell and Developmental Biology
Paul W. Sanger Chair in Experimental Surgery

10:25 – 10:45 am
Helicobacter pylori cag+ strains induce expansion and functional activation of Lrig1+ gastric progenitor cells in a strain-specific manner
Lydia Wroblewski, Ph.D.
Research Instructor in Medicine

10:45 – 11:00 am
eposters (Jonathan Brown, Jim Cassat, Ajit Tiwari, Kasey Vickers)

11:00 am – 1:00 pm
Lunch/Poster Session

1:00 – 1:30 pm
Bacon, BVES and junctional signaling in inflammatory carcinogenesis
Chris Williams, Ph.D., M.D.
Associate Professor of Medicine and Cancer Biology
Chancellor Faculty Fellow

1:30 – 1:50 pm
Development of targeted therapies against metastatic pancreatic cancer
Oliver McDonald, Ph.D., M.D.
Assistant Professor of Pathology, Microbiology, and Immunology

1:50 – 2:10 pm
Progression and regression of gastric preneoplasia through MEK inhibition
Eunyoung Choi, Ph.D.
Assistant Professor of Surgery

2:10 pm - 2:40 pm
Trajectory analysis of single-cell data to map differentiation pathways in the gut
Ken Lau, Ph.D.
Assistant Professor of Cell and Developmental Biology

2:40 – 2:45 pm
Break

2:45 – 3:45 pm
Keynote Speaker
Scott Magness, Ph.D.
Evolution of Gut Organoid Cultures: Biomemetic Platforms to Study
Single-cell Biology, Niche interactions, and the Microbiome
Associate Professor of Medicine, Cell Biology, and Biomedical Engineering
2017-2018 Vanderbilt Digestive Disease Research Center (VDDRC) Retreat

Gastrointestinal Infections and Injury (GI)

Agenda
Tuesday, April 18, 2017
9:00 a.m. – 3:30 p.m.
Langford Auditorium and Lobby

9:00 am  Welcome
Richard M. Peek, Jr., M.D.
Mina Cobb Wallace Professor of Medicine and Cancer Biology
Director, Vanderbilt Digestive Diseases Research Center

9:05 – 9:25 am  Animals as complex communities: Linking gut microbial diversity to evolution and function
Seth Bordenstein, Ph.D.
Associate Professor of Biological Sciences
Associate Professor of Pathology, Microbiology, and Immunology

9:25 – 9:45 am  Structures and functions of the Clostridium difficile toxins
Dana Borden Lacy, Ph.D.
Professor of Pathology, Microbiology, and Immunology
Professor of Biochemistry

9:45 – 10:05 am  Structure and functions of Helicobacter pylori VacA toxin
Timothy L. Cover, M.D.
Professor of Medicine
Professor of Pathology, Microbiology, and Immunology

10:05 – 10:35 am  Break

10:35 – 10:55 am  The role of S100A12 in Helicobacter pylori gastric disease
Jennifer A. Gaddy, Ph.D.
Assistant Professor of Medicine

10:55 – 11:15 am  Mechanisms of altered bone homeostasis during inflammatory bowel disease
James E. Cassat, M.D., Ph.D.
Assistant Professor of Pediatrics
Assistant Professor of Biomedical Engineering
Assistant Professor of Pathology, Microbiology, and Immunology

11:15 – 11:35 am  The impact of diet on Clostridium difficile infection
Eric P. Skaar, Ph.D.
Professor of Pathology, Microbiology, and Immunology
Ernest W. Goodpasture Chair in Pathology
Director, Microbial Pathogenesis Program

11:35 – 12:00 pm  Eposter Presentations

12:00 pm - 1:30 pm  Poster Session/Lunch in Lobby
1:30 – 1:50 pm  Structure and mechanism of the intestine-specific Annexin A13
         Tina M. Iverson, Ph.D.
         Associate Professor of Pharmacology
         Associate Professor of Biochemistry

1:50 – 2:10 pm  Prostaglandins in the pathogenesis of Clostridium difficile infection
         David M. Aronoff, M.D.
         Professor of Medicine
         Addison B. Scoville Jr. Chair in Medicine
         Professor of Pathology, Microbiology, and Immunology
         Associate Professor of Medicine, Health, and Society
         Director, Division of Infectious Diseases

2:10 – 2:30 pm  Break

2:30 – 3:30 pm  Keynote Speaker
         Pathogen restriction and host specificity: lessons from the human pathogen Salmonella typhi
         Jorge E. Galan, Ph.D., D.V.M.
         Lucille P. Markey Professor of Microbial Pathogenesis and
         Professor of Cell Biology
         Chair, Department of Microbial Pathogenesis
         Yale University