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

*Obesity, Metabolism, and Nutrient Absorption (OMNA)*

**Agenda**

**Tuesday, January 26, 2016 – 9:00 a.m. – 2:50 p.m.**

**Student Life Center – Board of Trust Room**

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

9:05 – 9:25 am  
**“The Importance of Bile Acid Enterohepatic Circulation in Nutrient Handling” Part 1**  
*Naji Abumrad, MD*  
Professor of Surgery  
John L. Sawyers Chair in Surgical Sciences

9:25 – 9:45 am  
**“The Importance of Bile Acid Enterohepatic Circulation in Nutrient Handling” Part 2**  
*C. Robb Flynn, Ph.D.*  
Assistant Professor of Surgery

9:45 – 10:05 am  
**“A New Role for Macrophages in Adipose Tissue Iron Homeostasis”**  
*Alyssa Hasty, Ph.D.*  
Professor of Molecular Physiology and Biophysics

10:05 – 10:25 am  
**“Training and Usage of Mass Cytometry for DDRC Members”**  
*Kevin Weller*  
Managing Director  
Flow Cytometry Core

10:25 – 10:45 am  
**“Decoding Tissue Microenvironments with High Dimensional Mass Cytometry (CyTOF)”**  
*Jonathan Irish, Ph.D.*  
Assistant Professor of Cancer Biology  
Assistant Professor of Pathology, Microbiology and Immunology

10:45 – 11:00 am  
**Eposter Presentations**

11:00 am - 12:15 pm  
**Poster Board Session/Lunch in Ballroom C**

12:15 - 12:35 pm  
**“Enteroendocrine Melanocortin-4 Receptor Regulation of Peptide YY”**  
*Nathan Bingham, M.D., Ph.D.*  
Assistant Professor of Pediatrics  
Assistant Professor of Molecular Physiology and Biophysics
12:35 – 12:55 pm  “Capitalizing on Gut Hormones for Metabolic Disease: Positive Allosteric Modulators of the Glucagon-like Peptide-1 Receptor”
Kevin Niswender, M.D., Ph.D.
Associate Professor of Medicine
Associate Professor of Molecular Physiology and Biophysics

12:55 – 1:15 pm  “Engineering the Gut Microbiome”
Sean Davies, Ph.D.
Associate Professor of Pharmacology

1:15 – 1:35 pm  “Selective Insulin Resistance: Implications for Fatty Liver and Obesity-Associated Cardiovascular Disease”
John Stafford, M.D., Ph.D.
Assistant Professor of Medicine
Assistant Professor of Molecular Physiology and Biophysics

1:35 – 1:50 pm  Break

1:50 - 2:50 pm  Keynote Speaker
“Obesity, Metabolism, and Nutrient Absorption: The Critical Involvement of the Adipocyte”
Philipp E. Scherer, Ph.D.
Professor, Department of Internal Medicine
Director, Touchstone Diabetes Center
University of Texas, Southwestern Medical Center
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat

Progenitor Cells, Development, Regeneration and Pre-malignant lesions (PC)

Agenda

Tuesday, April 28, 2015 – 9:00 a.m. – 2:30 p.m.
Student Life Center – Board of Trust Room

8:00 – 9:00 am
Closed External Advisory Board Meeting: Student Life Center Meeting Room 3

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

9:05 am – 9:30 am
“Plasticity and organ interconversion in the early gut tube”
Christopher V. E. Wright, D.Phil.
Director, Vanderbilt University Program in Developmental Biology
Louise B. McGavock Chair
Professor and Vice-Chair for Faculty Affairs
Department of Cell & Developmental Biology

9:30 – 9:55 am
“Building cell state trajectories using single cell analysis”
Ken Lau, Ph.D.
Assistant Professor of Cell and Developmental Biology

9:55 – 10:20 am
“Toward a new understanding of acute liver failure”
Seth Karp, M.D.
Professor and Vice Chairman of Surgery
Ingram Chair in Surgical Sciences
Director, Vanderbilt Transplant Center

10:20 – 10:45 am
“CRISPR/Cas Gene Targeting: What can CRISPR do for you”
Douglas Mortlock, Ph.D.
Research Assistant Professor of Molecular Physiology and Biophysics

10:45 am – 12:15 pm
Poster Session/Lunch

12:15 - 12:35 pm
“Spatio-temporal regulation of epithelial transformation by mistrafficking of the EGFR ligand, epiregulin”
Bhuminder Singh, Ph.D.
Research Assistant Professor of Medicine

12:35 – 12:55 pm
“Lrig1 regulates ontogeny of smooth muscle-derived subsets of interstitial cells of cajal”
Jumpei Kondo, M.D., Ph.D.
Postdoctoral Fellow

12:55 – 1:20 pm
“Functional deficits in ganglionated bowel due to “classic” Hirschsprung disease mutations in ENS progenitors”
Michelle Southard Smith, Ph.D.
Associate Professor of Medicine
Associate Professor of Cell and Developmental Biology

1:20 – 1:30 pm
Break

1:30 - 2:30pm
Keynote Speaker
“The cellular origin and behavior of enteric neural progenitors”
Hideki Enomoto, M.D.
Professor of Physiology and Cell Biology
Division of Neural Differentiation and Regeneration
RIKEN Center for Developmental Biology, Kobe University, Japan
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat  
*Epithelial Integrity*  
**Agenda**  
**Monday, April 14, 2014 – 11:00 a.m. – 5:00 p.m.**  
Student Life Center – Board of Trust Room

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>11:00 – 11:40 am</td>
<td>Lunch/Poster Viewing Session</td>
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<tr>
<td>11:40 – 11:45 am</td>
<td>Welcome</td>
<td>Richard M. Peek, Jr., MD</td>
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<tr>
<td><strong>Richard M. Peek, Jr., MD</strong></td>
<td>Mina Cobb Wallace Professor of Medicine and Cancer Biology</td>
<td>Vanderbilt Digestive Disease Research Center</td>
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<tr>
<td>11:45 am – 12:05 pm</td>
<td>Presentation: “Chemical biology of Curcumin”</td>
<td>Claus Schneider, PhD</td>
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<td><strong>Claus Schneider, PhD</strong></td>
<td>Assistant Professor of Pharmacology</td>
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<td>12:05 – 12:25 pm</td>
<td>Presentation: &quot;Structures and functions of the Clostridium difficile toxins A and B&quot;</td>
<td>D. Borden Lacy, PhD</td>
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<td><strong>D. Borden Lacy, PhD</strong></td>
<td>Associate Professor of Biochemistry and Pathology, Microbiology &amp; Immunology</td>
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<td>12:25 – 12:45 pm</td>
<td>Presentation: &quot;MMP13 contributes to development of pancreatitis in obese mice&quot;</td>
<td>Michael Van Saun, PhD</td>
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<td><strong>Michael Van Saun, PhD</strong></td>
<td>Research Assistant Professor of Surgery and Cancer Biology</td>
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<td>12:45 – 1:05 pm</td>
<td>Presentation: “Calprotectin modulates Helicobacter pylori’s Type IV secretion system”</td>
<td>Holly Algood, PhD</td>
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<td><strong>Holly Algood, PhD</strong></td>
<td>Assistant Professor of Medicine and Pathology, Microbiology &amp; Immunology</td>
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<td>1:05 - 1:25 pm</td>
<td>Presentation: “Gastric Cancer in Latin America: Biomarkers and Prevention”</td>
<td>Douglas Morgan, MD, MPH</td>
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<td><strong>Douglas Morgan, MD, MPH</strong></td>
<td>Associate Professor of Medicine</td>
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<td>1:25 – 2:25 pm</td>
<td>Cores &amp; Pilot/Feasibility Poster Presentation</td>
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<td>2:25 – 2:45 pm</td>
<td>Presentation: “Therapeutically modified gut bacteria inhibit high-fat diet induced obesity”</td>
<td>Sean Davies, PhD</td>
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<td><strong>Sean Davies, PhD</strong></td>
<td>Assistant Professor of Pharmacology</td>
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<td>2:45 – 3:05 pm</td>
<td>Presentation: “Regulation of intestinal development by probiotics-potential mechanisms of action”</td>
<td>Fang Yan, MD, PhD</td>
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<td><strong>Fang Yan, MD, PhD</strong></td>
<td>Research Associate Professor of Pediatrics</td>
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<td>3:05 – 3:25pm</td>
<td>Presentation: &quot;Microbiome and immune regulation in the neonatal intestine&quot;</td>
<td>Hendrik Weitkamp, MD</td>
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<td><strong>Hendrik Weitkamp, MD</strong></td>
<td>Assistant Professor of Pediatrics</td>
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<td>3:25 – 3:45 pm</td>
<td>Presentation: “Darwin’s blind spot: The microbial making of animals”</td>
<td>Seth Bordenstein, PhD</td>
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<td><strong>Seth Bordenstein, PhD</strong></td>
<td>Associate Professor of Biological Sciences and Pathology, Microbiology &amp; Immunology</td>
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<td>3:45 – 4:00 pm</td>
<td>Break</td>
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<td>4:00 – 5:00 pm</td>
<td>KEYNOTE</td>
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<td><strong>KEYNOTE</strong></td>
<td>Presentation: “The role of the microbiome in enteric disease and asthma”</td>
<td>B. Brett Finlay, OC, OBC, FRSC, FCAHS</td>
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<td><strong>B. Brett Finlay, OC, OBC, FRSC, FCAHS</strong></td>
<td>Michael Smith Laboratories</td>
<td>Professor of Biochemistry and Molecular Biology and Microbiology &amp; Immunology</td>
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<td>University of British Columbia, Vancouver</td>
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Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2012-2013

*Growth, Proliferation and Apoptosis*

**Agenda**

Tuesday, April 16, 2013 – 12:00 p.m. – 5:00 p.m.
Student Life Center – Board of Trust Room

12:00 pm – 12:30 pm  
**Lunch/Welcome:**
Richard M. Peek, Jr., M.D.
Mina Cobb Wallace Professor of Medicine and Cancer Biology
Director, Vanderbilt Digestive Disease Research Center

12:30 – 12:50 pm  
**Presentation:** “Loss of E-cadherin and TGFβ receptor II results in invasive squamous cell carcinoma in vivo”
Claudia D. Andl, Ph.D.
Assistant Professor of Surgery and Cancer Biology

12:50 – 1:10 pm  
**Presentation:** "Exosome function in colon cancer"
Jeffrey L. Franklin, Ph.D.
Research Assistant Professor of Cell and Developmental Biology

1:10 – 1:30 pm  
**Presentation:** “Role of Claudin-2 in Intestinal Homeostasis and Inflammation: It’s Complex”
Amar B. Singh, Ph.D.
Assistant Professor of Surgery and Medicine

1:30 – 1:50 pm  
**BREAK**

1:50 – 2:50 pm  
**Cores & Pilot/Feasibility Poster Presentation**

2:50 – 3:10 pm  
**Presentation:** "Macrophage function in colonic tissue repair - role of MMP10"
Barbara M. Fingleton, Ph.D.
Assistant Professor of Cancer Biology

3:10 – 3:30 pm  
**Presentation:** “MTGs from translocations to cancer associated mutations: the expanding role of transcriptional co-repressors in the gut”
Christopher S. Williams, M.D., Ph.D.
Assistant Professor of Medicine and Cancer Biology

3:30 – 3:50pm  
**Presentation:** “Howard Spiro Lied to Me”
James R. Goldenring, M.D., Ph.D.
Paul W. Sanger Chair in Experimental Surgery
Professor of Surgery and Cell and Developmental Biology

3:50 – 4:00 pm  
**BREAK**

4:00 – 5:00 pm  
**KEYNOTE**
**Presentation:** “Scaling Factors: differentiation and dedifferentiation, stem cells and cancer”
Jason C. Mills, M.D., Ph.D.
Associate Professor, Division of Gastroenterology, Department of Medicine, Department of Pathology & Immunology, Department of Developmental Biology
Washington University School of Medicine, St. Louis, Missouri
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2011-2012

Inflammation and obesity with emphasis on the VDDRC Gastrointestinal Physiology, Obesity and Metabolism Program

Agenda

Wednesday, April 11, 2012 – 11:00 a.m. – 4:00 p.m.
Student Life Center – Board of Trust Room

11:00 am – 11:30 pm  Lunch/Welcome:
Richard M. Peek, Jr., MD
Mina Cobb Wallace Professor of Medicine and Cancer Biology
Director, Vanderbilt Digestive Disease Research Center

11:30 – 11:50 pm  Presentation: “Metabolic Imprinting of Dopamine Neurotransmission in Obesity”
Aurelio Galli, PhD
Professor of Molecular Physiology and Biophysics

11:50 – 12:10 pm  Presentation: “Obesity, Inflammation and Nervous System Function”
Kate Ellacott, PhD
Assistant Professor of Molecular Physiology and Biophysics

12:10 – 12:30 pm  Presentation: “Role of the foregut in Nutrition and Metabolism”
Robyn Tamboli, PhD
Research Assistant Professor of Surgery

12:30 – 12:50 pm  Presentation: “Molecular Determinants of Tumor Progression In A Steatotic Liver Microenvironment”
Lee Gorden, MD
Associate Professor of Surgery
Associate Professor of Cancer Biology

12:50 – 12:55 pm  BREAK

12:55 – 1:30 pm  Cores & Pilot/Feasibility Poster Presentation

1:30 – 1:50 pm  Presentation: “Sex-Differences in Fatty Liver and Obesity-Related Cardiovascular Risk”
John Stafford, MD, PhD
Assistant Professor of Medicine, Molecular Physiology and Biophysics

1:50 – 2:10 pm  Presentation: “Dietary Fat and Obesity: Are all fats created equal?”
Kevin Niswender, MD
Associate Professor of Medicine
Assistant Professor of Molecular Physiology and Molecular Biology

2:10 – 2:30 pm  Presentation: “ER Stress-Mediated Apoptosis as a Mechanism to Maintain and Restore Adipose Tissue Macrophage Homeostasis”
Alyssa Hasty, PhD
Associate Professor of Molecular Physiology and Biophysics

2:30 – 2:50 pm  Presentation: “The DDRC and The Mouse Metabolic Phenotyping Center Team Up: Bariatric Surgery and More”
David Wasserman, PhD
Annie Mary Lyle Chair
Professor of Molecular Physiology and Biophysics
Director, Mouse Metabolic Phenotyping Center

2:50 – 3:00 pm  BREAK

3:00 – 4:00 pm  KEYNOTE
Presentation: “The Role of Melanocortin Signaling in the Efficacy of Bariatric Surgery”
Roger Cone, PhD
Joe C. Davis Chair in Biomedical Science
Professor of Molecular Physiology and Biophysics
Chair of the Department of Molecular Physiology and Biophysics
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2010 - 2011

VDDRC Retreat January 24, 2011
Student Life Center, Board of Trust
Emphasis: Gastrointestinal Development and Function

11:30 am – 12:00 pm  Lunch/Welcome:
                    Richard M. Peek, Jr., MD
                    Mina Cobb Wallace Professor of Medicine and Cancer Biology
                    Director, Vanderbilt Digestive Disease Research Center

12 – 12:25 pm  Presentation: “Serosal mesothelium in development and repair”
                    David M. Bader, PhD
                    Gladys Parkinson Stahlman Professor of Cardiovascular Research
                    Professor of Medicine, Cell and Developmental Biology

12:25 – 12:50 pm  Presentation: “Unraveling the molecular factors that regulate intrahepatic bile duct morphogenesis and maintenance”
                    Stacey Huppert, PhD
                    Assistant Professor of Cell and Developmental Biology

12:50 – 1:15 pm  Presentation: "Molecular Imaging of Digestive Diseases: Research strategies and opportunities"
                    Henry Charles Manning, PhD
                    Assistant Professor of Radiology and Radiological Sciences, Biomedical Engineering
                    and Neurological Surgery

1:15 – 1:25 pm  BREAK

1:25 – 2:10 pm  Cores & Pilot/Feasibility Poster presentation

2:10 – 2:35 pm  Presentation: "New insights on brush border function and assembly"
                    Matthew Tyska, PhD
                    Associate Professor of Cell and Developmental Biology

2:35 – 3:00 pm  Presentation: “Influence and timing of arrival of murine neural crest on pancreatic beta cell development and maturation”
                    Patricia Labosky, PhD
                    Associate Professor of Cell and Developmental Biology and Pharmacology

3:00 – 3:25pm  Presentation: “Gastrointestinal Issues in Children with Autism Spectrum Disorders”
                    Kent Williams, MD
                    Assistant Professor of Pediatrics

3:25 – 3:50 pm  Presentation: “Disruption of Enteric Neural Crest Lineages - A new mechanism contributing to Hirschsprung Disease”
                    Michelle Southard-Smith, PhD
                    Associate Professor of Medicine and Cell and Developmental Biology

3:50 – 4:00 pm  BREAK

4:00 – 5:00 pm  KEYNOTE
                    Presentation: “Enteric nervous system development: recent progress and future challenges”
                    Vasillis Pachnis, MD, PhD
                    Head of Molecular Biology
                    MRC National Institute for Medical Research
                    The Ridgeway, Mill Hill, London
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2009 - 2010

VDDRC Retreat April 19, 2010  
Student Life Center, Board of Trust  
Emphasis: Epithelial Integrity Program

11:30 – 12:00 pm  
Lunch/Welcome:  
Richard M. Peek, Jr., M.D.  
Mina Cobb Wallace Professor of Medicine and Cancer Biology  
Director, Vanderbilt Digestive Disease Research Center

12:00 – 12:25 pm  
Presentation: “A Novel Mechanism for Oxidative Stress and Helicobacter pylori – Associated Gastric Cancer Risk”  
Keith Wilson, M.D., Professor of Medicine and Cancer Biology

12:25 – 12:50 pm  
Presentation: “New Insights into Helicobacter pylori VacA toxin”  
Tim Cover, M.D., Professor of Medicine, Division of Infectious Diseases

12:50 – 1:15 pm  
Presentation: “The Battle for Metal between Staphylococcus aureus and its Host”  
Eric Skaar, Ph.D., M.P.H., Associate Professor of Microbiology and Immunology

1:15 – 1:25 pm  
BREAK

1:25 – 2:10 pm  
Cores & Pilot/Feasibility Poster Presentation

2:10 – 2:35 pm  
Presentation: “Probiotic Prevention of Intestinal Inflammation and Barrier Disruption: Impact on Digestive Health”  
Fang Yan, M.D., Ph.D., Research Associate Professor, Division of Pediatrics Gastroenterology, Hepatology and Nutrition

2:35 – 3:00 pm  
Presentation: “Fundamental Mechanisms Underlying the Development of the Human Antibody Response to Rotavirus”  
James E. Crowe Jr., M.D., Professor of Pediatrics, Microbiology and Immunology

3:00 – 3:25 pm  
Presentation: “Is Rotavirus Gone? Vaccine Successes”  
Kathy M. Edwards, M.D., Sarah H. Sell Chair in Pediatrics, Vanderbilt Vaccine Research Program

3:25 – 3:50 pm  
Presentation: “The Journey of Reovirus from Intestine to Bloodstream Requires Junctional Adhesion Molecule-A”  
Terence Dermody, M.D., Professor of Pediatrics, Microbiology and Immunology

3:50 – 4:00 pm  
BREAK

4:00 – 5:00 pm  
KEYNOTE  
Presentation: “Norovirus Vaccine Development: A Bench to Bedside Story”  
Mary Estes, Ph.D., Cullen Endowed Chair of Molecular and Human Virology Departments of Molecular Virology and Microbiology and Medicine Baylor College of Medicine
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2008 - 2009

VDDRC Retreat May 11, 2009
Student Life Center, Board of Trust
Emphasis: Growth, Proliferation and Apoptosis

12:00 p.m. - 1:00 p.m. Lunch/Welcome:
D. Brent Polk, M.D.
Richard M. Peek, Jr., M.D.

1:00 p.m. - 1:45 p.m. Presentation: The Colonic Stem Cell
Robert H. Whitehead, MSc, Ph.D.
Research Professor, Departments of Medicine, Cell and Developmental Biology and Cancer Biology

1:45 p.m. - 2:30 p.m. Presentation: Regulation of Pancreatic Development by the FoxM1 Transcription Factor
Maureen Gannon, Ph.D.
Associate Professor of Medicine, Molecular Physiology and Biophysics, and Cell and Developmental Biology

2:30 p.m. - 3:00 p.m. Presentation: Neural Crest Stem Cells and Lineage Analysis in the Enteric Nervous System
Michelle Southard-Smith, Ph.D.
Associate Professor of Medicine and Cell and Developmental Biology

3:00 p.m. - 3:30 p.m. Cores and Pilot/Feasibility Poster Presentations

3:30 p.m. - 3:45 p.m. Presentation: Levels of Notch Signaling Regulate the 3D Architecture of Intrahepatic Bile Ducts in Mice
Stacey S. Huppert, Ph.D.
Assistant Professor, Department of Cell and Developmental Biology
Pilot & Feasibility Award Recipient

3:45 p.m. - 4:00 p.m. Presentation: The Erbb4 Receptor Tyrosine Kinase Promotes Colon Epithelial Cell Survival And Transformation
Mark R. Frey, Ph.D.
Research Instructor, Division of Pediatric Gastroenterology, Hepatology, and Nutrition
Pilot and Feasibility Award Recipient

4:00 p.m. - 5:00 p.m. Keynote Speaker
Presentation: The Expansion of Mutant Stem Cells: The Beginning of Cancer
Sir Nicholas Wright, M.D., Ph.D., M.A., D.Sc.
Professor of Investigative Pathology, Bart’s and the London, Queen Mary’s School of Medicine and Dentistry, UK
Group Leader, Histopathology Unit
Cancer Research UK London Research Institute, UK
Vanderbilt Digestive Disease Research Center (VDDRC) Retreat 2007 - 2008

VDDRC Retreat April 28, 2008
Student Life Center, Ballroom A
Emphasis: Epithelial-Microbial Interaction in Gastrointestinal Health and Disease

12:00 p.m. – 1:00 p.m. Lunch / Welcome
D. Brent Polk, M.D.
Richard M. Peek, Jr., M.D.

1:00 p.m. – 1:30 p.m. Presentation: The Natural History of *Helicobacter pylori* Infection
Pelayo Correa, M.D.
Ann Potter Wilson Professor of Medicine
Division of Adult Gastroenterology

1:30 p.m. – 2:00 p.m. Presentation: Role of Arginine in Colonic Inflammation
Keith Wilson, M.D.
Professor of Medicine and Cancer Biology
Director of Research and Fellowship Training Program
Division of Adult Gastroenterology

2:00 p.m. – 2:30 p.m. Presentation: Role of Secreted Bacterial Proteins in *Helicobacter pylori* Infection
Timothy Cover, M.D.
Professor of Medicine
Division of Adult Infectious Disease

2:30 p.m. – 3:00 p.m. Cores and Pilot/Feasibility Poster Presentations

3:00 p.m. – 3:30 p.m. Presentation: The Battle for Metal Between *Staphylococcus aureus* and its Host
Eric Skaar, Ph.D.
Assistant Professor
Microbiology and Immunology Department

3:30 p.m. – 3:45 p.m. Presentation: A Novel Role for the Enterocyte Brush Border in Mucosal Barrier Function
Matthew Tyska, Ph.D.
Assistant Professor
Cell and Developmental Biology

3:45 p.m. – 4:00 p.m. Presentation: *Lactobacillus rhamnosus* GG-derived Soluble Proteins Prevent Intestinal Inflammation Through Activation of Epidermal Growth Factor Receptor Signaling Pathway
Fang Yan, M.D., Ph.D.
Research Assistant Professor
Division of Pediatric Gastroenterology, Hepatology and Nutrition