



Department of Pathology and Immunology

DIVISIONS OF ANATOMIC AND MOLECULAR PATHOLOGY  
LABORATORY AND GENOMIC MEDICINE  
NEUROPATHOLOGY

TRAINEE RESEARCH DAY PROGRAM  
June 10 & 11, 2019

**MONDAY, JUNE 10, 2019**

**11:15 am**                    *LUNCH EPNEC - MEZZANINE (outside Seminar Room A), 2nd Floor*

**11:50 am**                    *WELCOME, EPNEC, SEMINAR ROOM A*  
Joseph Gaut, MD, PhD

**ORAL PRESENTATIONS**

**12:00 pm - 12:15 pm**      **Oral #1 - Zahra Alipour, MD (#001)**  
Histologic Predictors of Treatment Response to Neoadjuvant PD-1 Inhibitor Therapy in High-Risk HPV-Negative Head and Neck Squamous Cell Carcinomas

**12:15 pm - 12:30 pm**      **Oral #2 - Ivan Gonzalez, MD (#001)**  
Clinicopathologic Determinants of Pathologic Treatment Response in Neoadjuvant Treated Rectal Adenocarcinomas

**12:30 pm - 12:45 pm**      **Oral #3 - Sophonie Jean, PhD**  
Phenotypic, Genotypic, and MALDI-TOF MS Detection of Carbapenem Resistance in Clinical Isolates of *Bacteroides fragilis* Group

**12:45 pm - 1:00 pm**        **Oral #4 – Kaitlin Mitchell, PhD, MPH**  
Rapid Emergence of Daptomycin Resistance in non-*striatum* *Corynebacterium* species: A Multi-Center Study

**1:00 pm - 2:00 pm**        *Beverages will be served during poster viewing session*  
POSTER VIEWING 1-19 – EPNEC ROOM 301 & 303

**2:00 pm - 2:15 pm**        **Oral #5 - Nima Sharifai, MD, PhD**  
Napsin A is a highly sensitive and specific marker for nephrogenic adenoma among genitourinary tumors

**2:15 pm – 2:30 pm**        **Oral #6 - Lulu Sun, MD, PhD**  
Performance of Illumina TruSight RNA Fusion versus Fluorescence *In Situ* Hybridization (FISH) in the detection of gene fusions in solid and hematologic tumors

**2:30 pm – 2:45 pm**        **Oral #7 - Parker Wilson, MD, PhD (#002)**  
The Single Cell Transcriptomic Landscape of Early Diabetic Nephropathy

**2:45 pm - 3:00 pm**        **Oral #8 - Ray Zhang, MD, PhD**  
Association between the DRB1\*03:01-DQB1\*02:01 haplotype and heparin-induced thrombocytopenia (HIT) antibodies

**3:00 pm – 4:00 pm**        Committee and Dr. Balis meet to decide awardees

**5:00 pm - 6:30 pm**        *COCKTAILS, APPETIZERS & AWARD PRESENTATION @ Wild Flower Loft*  
*4590 Laclede Avenue, Saint Louis, MO 63108*

## **POSTER PRESENTATIONS**

### **POSTER #1 – Heba Abdelal, MD**

Intracholecystic Papillary-Tubular Neoplasms: Is a Size Cut-Off Justified?

### **POSTER #2 – Zahra Alipour, MD (#002)**

Appendiceal Neuroendocrine Tumors: Clinicopathologic Characteristics, Including Documentation of the Novel INSM-1 Immunohistochemical Staining: A Single Institution Experience with 80 Cases

### **POSTER #3 – Zahra Alipour, MD (#003)**

Tumor Heterogeneity in Gastroenteropancreatic Neuroendocrine Neoplasms do not Imply a Change in Grade at Metastatic Sites

### **POSTER #4 – Jie-Fu Chen, MD**

Neuroendocrine Marker Insulinoma-Associated Protein 1 (INSM1) Showed Differential Expression in Prostatic High-Grade Neuroendocrine Carcinomas and Gleason Score 9-10 Acinar Adenocarcinomas with Neuroendocrine Differentiation

### **POSTER #5 – Carina Dehner, MD, PhD**

Dedifferentiated Liposarcoma with Pulmonary Metastasis: A Clinicopathologic Study of Four Cases

### **POSTER #6 – Christopher Farnsworth, PhD**

Evaluation of Laboratory Contamination during Routine Testing of Infectious Specimens Using Total Laboratory Automation Systems

### **POSTER #7 – Mercia Gondim, MD**

Correlation of IgA Tissue Transglutaminase Antibody Test with Duodenal Histology in a Pediatric Population

### **POSTER #8 – Ivan Gonzalez, MD (#002)**

Tumor-insular Complex in Neoadjuvant Treated Pancreatic Ductal Adenocarcinoma is Associated with Higher Residual Tumor

### **POSTER #9 – Ivan Gonzalez, MD (#003)**

Clinicopathologic Correlation of CXCR4 Expression and Treatment Response in Neoadjuvant Treated Rectal Adenocarcinoma

### **POSTER #10 – Liang-I Kang, MD, PhD**

Diversity of Umbilical Lesions of the Pediatric Population: A 26-year Retrospective Review at a Single Institution

### **POSTER #11 – Aidas Mattis, MD, PhD**

Tumor Mutational Burden in Wilms Tumor (WT): A Pilot Study

### **POSTER #12 – Rehan Rais, MD (#001)**

HISTOLOGIC ASSOCIATION OF PROTON PUMP INHIBITOR THERAPY AND GASTRIC NEUROENDOCRINE TUMORS

### **POSTER #13 – Rehan Rais, MD (#002)**

Adopting an Evidence-Based Approach for Folate Testing in a Tertiary Care Center

### **POSTER #14 – Neda Rezaee, MD**

AJCC 8<sup>th</sup> T-Stage Based Risk Stratification of Pancreatic Ductal Adenocarcinoma Arising in Neoplastic Cystic Lesions

### **POSTER #15 – Behzad Salari, MD**

Metastatic pancreatic adenocarcinoma to the scalp: A case report and review of the literature

### **POSTER #16 – Jeffrey Szymanski, MD, PhD**

RNA-seq from formalin-fixed paraffin-embedded tissue: Optimization of extraction and library preparation

### **POSTER #17 – Daniel Webber, MD, PhD (#001)**

Evaluation of the BioFire® FilmArray® Pneumonia Panel for Detection of Viral and Bacterial Pathogens in Lower Respiratory Tract Specimens in the Setting of a Tertiary Care Academic Medical Center

**POSTER #18 – Parker Wilson, MD, PhD (#001)**

Clinical Exome Sequencing for Renal Disorders

**POSTER #19 – Huifang Zhou, MD, PhD**

Omphaloceles Associated with Chromosomal Segmental Alterations Carry a Poor Prognosis

**TUESDAY, JUNE 11, 2019**

8:15 – 9:00 am

***CONTINENTAL BREAKFAST – IOH 3510***  
***Dr. Balis & Trainees***

9:00 – 10:00 am

**"The Coming Tsunami of AI in Pathology: Exemplars of Evolved Clinical Workflow in AP and CP"** by Ulysses Gregory John Balis, MD  
IOH 3510