Saturday March 16

Saturday Evening Companion Meeting

7:40 pm (International Society of Urological Pathology): The Importance of Pathologic Evaluation in Active Surveillance of Small Renal Masses – Ying-Bei Chen [National Harbor 4/5]

7:40 pm (Pancreatobiliary Pathology Society): Pancreatic Neuroendocrine Neoplasms – Landscape and Horizon – Laura Tang [Maryland Ballroom B]

8:10 pm (Pulmonary Pathology Society): Lung Adenocarcinoma: Emerging Histologic Patterns – William Travis [National Harbor 11]

8:50 pm (Pulmonary Pathology Society): Update on SMARCB4 Deficient Lung Tumors – Natasha Rekhtman [National Harbor 11]

8:50 pm (Association for Pathology Informatics): Robotic Telescytology for Remote Diagnosis – S. Joseph Sirintrapun [National Harbor 10]

Sunday March 17

Sunday Morning Companion Meeting

9:00 am (Arthur Purdy Stout Society of Surgical Pathologists): The Disease Doesn’t Know Your Age: Adults and Children with the “Wrong Affliction”? GU Pathology – Victor Reuter [Maryland Ballroom]

Sunday Afternoon Companion Meeting

2:50 pm (Genitourinary Pathology Society): Pathology and Molecular Features with Clinical Implications: Lower Tract Urothelial Tumors – Hikmat Al-Ahmadie [National Harbor 12/13]

3:30 pm (International Society of Bone and Soft Tissue Pathology): Epithelioid Hemangioendothelioma – Histologic and Clinical Spectrum and New Genetic Variants – Cristina Antonescu [Chesapeake G/H]

4:15 pm (International Society of Gynecological Pathology): HPV-Independent Cervical Adenocarcinomas (Including Relationship to Silva Classification and Molecular Abnormalities) – Kay Park [Cherry Blossom Ballroom]
5:30-7:00 pm – Fellowship Fair
Woodrow Wilson A

**Sunday Evening Companion Meeting**

9:00 pm (International Society of Breast Pathology): *Artificial Intelligence (AI) in Breast Pathology* – Thomas Fuchs [Cherry Blossom Ballroom]

**Monday March 18**

**Monday Morning Platform Sessions**

8:00 am – *Pericardial Mesothelioma: A Multi-Institutional Study of 61 Cases* (Travis, Sauter – Pulmonary Pathology – National Harbor 4/5)

8:15 am – *Flat Epithelial Atypia (FEA) in Breast Core Needle Biopsy (CNB): Is Excision Necessary?* (Grabenstetter, Salagean, Brogi – Breast Pathology – Maryland Ballroom C)

8:30 am – *Practice Patterns in Reporting Tertiary Grades at Radical Prostatectomy: Survey of a Large Group of Experienced Urologic Pathologists* (Fine, Al-Ahmadie, Chen, Gopalan, Sirintrapun, Tickoo, Reuter – Genitourinary Pathology – Maryland Ballroom B)

9:00 am – *Immunohistochemical Detection of Androgen Receptor in Metastatic Castrate Resistant Prostate Cancer* (Gupta, Fine, Tickoo, Al-Ahmadie, Chen, Sirintrapun, Ladanyi, Reuter, Gopalan – Genitourinary Pathology – Maryland Ballroom B)

9:00 am – *Clinicopathologic Analysis of MMR-Deficient Endometrial Carcinosarcomas* (Segura, Soslow – Gynecologic Pathology – National Harbor 2/3)

11:45 am – *Massive Parallel Sequencing of Neuroendocrine Carcinomas of the Large Bowel Reveals Distinct Molecular Subsets and Patterns of Genomic Evolution* (Vakiani, Shia, Klimstra – Gastrointestinal Pathology – Maryland Ballroom D)

**Monday Morning Poster Session [Exhibit Hall]**


[Poster #16] *Atypical Ductal Hyperplasia (ADH) in Breast Core Needle Biopsies (CNB): Is Excision Always Warranted? Review of the Experience at a Tertiary Care Center* (Salagean, Grabenstetter, Brogi – Breast Pathology)

Monday Afternoon Platform Sessions

1:00-3:00 pm (Platform Presentations – Techniques): Michael Roehrl, Co-Moderator [Chesapeake G/H/I]

1:15 pm – Detailed Morphologic and Genetic Features of Urothelial Carcinoma in Patients with Lynch Syndrome (Shia, Gopalan, Chen, Fine, Sirintrapun, Arcila, Tickoo, Berger, Reuter, Al-Ahmadie – Genitourinary Pathology – Maryland Ballroom B)


1:45 pm – Expanded Characterization of the Immune Microenvironment in High Grade Urothelial Carcinoma of the Bladder (Jungbluth, Katabi, Xu – Genitourinary Pathology – Maryland Ballroom B)

2:00 pm – Protein and Transcriptomic Characterization of the Immune Milieu of High Grade Bladder Cancer (Xu – Genitourinary Pathology – Maryland Ballroom B)

2:15 pm – Expression of Insulinoma-Associated Protein 1 (INSM1) in Small Cell Carcinoma of the Bladder (Jia, Chen, Fine, Gopalan, Sirintrapun, Tickoo, Reuter, Al-Ahmadie – Genitourinary Pathology – Maryland Ballroom B)

2:15 pm – Clinicopathologic and Genetic Characterization of non-AML NPM1-Mutated Myeloid Neoplasms (Ho – Hematopathology – Maryland Ballroom D)

Monday Afternoon Poster Session [Exhibit Hall]

[Poster #19] Recurrent MED12 Exon 2 Mutations in Benign Breast Fibroepithelial Lesions in Adolescents and Young Adults (Pareja, Murray, Giri, Weigelt, Reis-Filho, Brogi – Breast Pathology)

[Poster #21] Recurrent MED12 Exon 2 Mutations in Complex Fibroadenomas of the Breast (Murray, Pareja, Weigelt, Brogi, Reis-Filho, A. Zhang – Breast Pathology)


[Poster #133] Urothelial Carcinoma in Situ Versus Early High-Grade Papillary Urothelial Carcinoma: A Survey of Pathologist and Urologist Interpretations (Al-Ahmadie – Genitourinary Pathology)

[Poster #179] Integrative Clinical and Genomic Analysis of Tonsillar Squamous Cell Carcinoma (T-SCC) (B. Xu, Jamal, Vanderbilt, Berger, S. Dogan – Head and Neck Pathology Pathology)
[Poster #180] Utility of Pan-TRK Immunohistochemistry (IHC) as an Ancillary Tool in Diagnosing Secretory Carcinoma (SC) of Salivary Gland and Detecting ETV6-NTRK3 Fusion (Haroon Al Rasheed, B. Xu, Antonescu, Ghossein, Jungbluth, Katabi – Head and Neck Pathology)

[Poster #182] Histologic Spectrum of Polymorphous Adenocarcinoma of the Salivary Gland Harbor Genetic Alterations Affecting PRKD Genes (Pareja, B. Xu, Ghossein, Weigelt, Reis-Filho, Katabi – Head and Neck Pathology)

[Poster #190] Genomic Analysis of 134 Squamous Cell Carcinomas Arising in the Base of Tongue Diagnosed from 1985 to 2017 (S. Dogan, B. Xu, Jamal, Vanderbilt, Berger – Head and Neck Pathology)


[Poster #229] Blast to Plasmacytoid Dendritic Cell Ratio is Predictive of Progression in Low Grade Myelodysplastic Syndromes (Chan, Lewis, Arcila, Y. Zhang, Roshal, Xiao – Hematopathology)

[Poster #260] Acute Lung Injury Pattern is a Frequent Histologic Finding in Lung Tissue Following Immune Checkpoint Inhibitor Therapy (Golden, Rekhtman, Travis, Sauter – Pulmonary Pathology)

[Poster #284] The Impact of Pre-Analytical Parameters on PD-L1 Immunohistochemistry: Concordance Across Four Tissue Processing Protocols Using Two PD-L1 Clones in Multiple Tumor Types (B. Xu – Quality Assurance)

**Monday Evening Specialty Conference**

7:30 pm (Evening Specialty Conference – Breast Pathology): Case 3 – Maria Kuba [Maryland Ballroom A/B]

7:30 pm (Evening Specialty Conference – Head and Neck Pathology): Case 5 – Nora Katabi [National Harbor 12/13]

**Tuesday March 19**

**Tuesday Early AM Special Session**

6:00 am – 7:45 am: Incorporating TRK Inhibition into the Treatment Paradigm: The Pathologist’s Role – What Methods are Appropriate for Detecting TRK Fusion Cancer in Daily Practice - Jaclyn Hechtman [Cherry Blossom Ballroom]

**Tuesday Special Course**

8:00 am – 5:15 pm: Molecular Diagnostic & Genomic Applications in Cancer: A Primer for the Pathologist – 9:20 am – Britta Weigelt: Molecular Advances in Gynecologic Pathology: An Update for the Anatomic Pathologist [Woodrow Wilson A]
Tuesday Morning Platform Session

8:15 am – Revisiting Prognostic Significance of Clinicopathological Features in Type 1 Papillary Renal Cell Carcinoma (Jia, Al-Ahmadie, Fine, Gopalan, Sirintrapun, Tickoo, Chen, Reuter – Genitourinary Pathology – Maryland Ballroom B)

9:00 am – GLI1-Amplified Soft Tissue Neoplasm: A Novel Entity Showing Morphologic Overlap with Tumors with GLI1 Gene Fusions (Agaram, L. Zhang, Antonescu – Bone and Soft Tissue Pathology – National Harbor 4/5)

9:00 am – Cytopathologic Characterization of SMARCB1-Deficient Malignancies of the Head and Neck Region (Kezlarian, S. Dogan, Lin – Cytopathology – National Harbor 10/11)


9:15 am – BCOR-Overexpressing Malignant Renal/Perirenal Solitary Fibrous Tumor: A Close Mimic of Clear Cell Sarcoma of the Kidney (Antonescu – Genitourinary Pathology – Maryland Ballroom B)

9:15 am – Importance of Distinguishing Adenocarcinoma and Squamous Cell Carcinoma in Assessment of Pathologic Response After Neoadjuvant Chemotherapy (Travis – Pulmonary Pathology – Maryland Ballroom 1/2/3)

11:00 am – Novel Recurrent PHF1-TFE3 Fusions in a Subset of Ossifying Fibromyxoid Tumors (L. Zhang, Antonescu – Bone and Soft Tissue Pathology – National Harbor 4/5)

11:30 am – Comprehensive Genomic Profiling of the Primary Craniofacial Osteosarcomas (Nafa, Hameed – Bone and Soft Tissue Pathology – National Harbor 4/5)

11:30 am – Inter-Tumoral Discordance in Mismatch Repair Protein Expression in Synchronous or Metachronous Gastrointestinal Tumors: Biological Significance and Clinical Implications (Vyas, Hechtman, Vakiani, Klimstra, Shia – Gastrointestinal Pathology – Maryland Ballroom D)

11:45 am – Immunohistochemical Analysis of IDH2 R172 Hotspot Mutations in Breast Papillary Neoplasms (Pareja, Jungbluth, Giri, Weigelt, Reis-Filho, Brogi – Breast Pathology – Maryland Ballroom C)

Tuesday Morning Poster Session [Exhibit Hall]

[Poster #38] Impact of the 2018 ASCO/CAP HER2 Guideline Updates on HER2 Assessment in Breast Cancer with HER2 Immunohistochemistry Equivocal Results (Wen, J. Xu, Ross, Brogi – Breast Pathology)

[Poster #39] Clinicopathologic Features of Breast Cancers with HER2/CEP17 Ratio <2, HER2 Copy Number ≥4 and <6 Signals/Cell (J. Xu, Brogi, Ross, Wen – Breast Pathology)

[Poster #72] The Prognostic Impact of Percentage of Papillae in Unifocal Encapsulated Papillary
Thyroid Carcinoma: Implications for Noninvasive Follicular Thyroid Neoplasm with Papillary-Like Nuclear Features (NIFTP) Diagnosis (B. Xu, Katabi, Ghossein – Endocrine Pathology)

[Poster #137] SMARCB1 Alterations and Protein Expression in Non-Medullary Renal Cell Carcinoma (Chen, Jia, Al-Ahmadie, Fine, Gopalan, Sirintrapun, Tickoo, Reuter – Genitourinary Pathology)

[Poster #138] TFEB Expression Profiling in Renal Cell Carcinomas (Gupta, Chen, Tickoo, Fine, Gopalan, Al-Ahmadie, Sirintrapun, Antonescu, Ladanyi, Arcila, Reuter – Genitourinary Pathology)

[Poster #140] Expanding the Morphologic Spectrum of Sporadic Renal Cell Carcinoma (RCC) Harboring Somatic TSC or MTOR Alterations: Analysis of 8 Cases with Clear Cytoplasm and Leiomyomatous Stroma (Jia, Al-Ahmadie, Fine, Gopalan, Sirintrapun, Tickoo, Reuter, Chen – Genitourinary Pathology)

[Poster #146] Clinicopathological Findings in End Stage Kidneys Resected for Mass Lesions: A Single Institution Experience (Tickoo – Genitourinary Pathology)

[Poster #148] Clear Cell Renal Cell Carcinoma with a Poorly-Differentiated Component: A Novel Variant Causing Potential Diagnostic Difficulty (Chen – Genitourinary Pathology)

[Poster #196] Evaluation of Copy Number Alterations of MYC Family of Genes, RB1 Gene and AURKA in Endometrial Carcinomas (Momeni Boroujeni, Arcila, Ladanyi, Soslow, Chang – Gynecologic Pathology)

[Poster #204] Are Endometrial Cancers Arising in BRCA1/BRCA2 Germline Mutation Carriers True BRCA1/BRCA2 Cancers? (Reis-Filho, Mandelker, Weigelt – Gynecologic Pathology)

[Poster #251] Whole Block Imaging (WBI) by MicroCT of Lung Carcinoid Tumors: 3-Dimensional Morphometric Analysis of Spread Through Air Spaces (STAS) (Rekhtman, Hameed, Travis, Yagi – Pulmonary Pathology)

Tuesday Afternoon Hot Topics

12:00-1:00 pm – Hot Topics in Pathology 02 – GYN Pathology – The Evolving Landscape of Endocervical Adenocarcinoma, What Matters? – Robert Soslow [National Harbor 12/13]

Tuesday Afternoon Interactive Microscopy

1:30-3:00 pm – Large Gland Lesions of the Prostate on Needle Biopsy – Samson Fine [Chesapeake C]

1:30-3:00 pm – Uncommon Histologic Subtypes of Triple Negative Breast Cancer – Hannah Wen [Chesapeake F]

Tuesday Afternoon Platform Session

1:30 pm – Genomic Progression in PDGFRA-Mutant Gastrointestinal Stromal Tumors (GISTs) (Antonescu – Pathobiology – National Harbor 4/5)
1:45 pm – Genomic Profiling of Mucinous Adenocarcinomas Can Assist in Determination of Site of Origin (Momeni Boroujeni, Solomon, Arcila, Ladanyi, S. Dogan – Pathobiology – National Harbor 4/5)

2:15 pm – Inter- and Intra-Observer Agreement of PD-L1 Scoring in Hypopharyngeal Squamous Cell Carcinoma (HSCC), Urothelial Carcinoma (UC), and Breast Carcinoma (BC) (Katabi, Jungbluth, Xu – Quality Assurance – Annapolis 3/4)

Tuesday Afternoon Poster Session [Exhibit Hall]

[Poster #9] Pericytoma with t(7;12) and ACTB-GLI1 Fusion Involving the Musculoskeletal System and Ovary: A Report of Three Cases (Antonescu – Bone and Soft Tissue Pathology)

[Poster #28] Core Needle Biopsy Diagnosis of Fibroepithelial Lesions: Features Predictive of Upgrade to Phyllodes Tumor at Excision (Salagean, Brogi, Murray – Breast Pathology)

[Poster #93] Appendectomy Status is Associated with Distinct Molecular and Microbiota Profiles in Colorectal Carcinomas Based on Comprehensive Molecular Testing by Hybridization Capture Next-Generation Sequencing (Zhu, Hechtman, Arcila, Vanderbilt – Gastrointestinal Pathology)

[Poster #159] Recurrences and High-Grade Forms of Polymorphous Adenocarcinoma are Underpinned by Genetic Alterations Affecting PRKD Genes (Pareja, Katabi, Weigelt, Reis-Filho – Head and Neck Pathology)

[Poster #168] Inter-Observer Variation in the Histologic Classification of Polymorphous Adenocarcinoma (PAC) and Cribriform Adenocarcinoma of Salivary Gland (CASG) (S. Dogan, Ghossein, Reis-Filho, B. Xu, Katabi – Head and Neck Pathology)

[Poster #169] Clinicopathologic Features and Outcome of Head and Neck Spindle Cell Squamous Cell Carcinoma (SpC-SCC) (B. Xu, Haroon Al Rasheed, S. Dogan, Ghossein, Katabi – Head and Neck Pathology)

[Poster #175] The Mutational Profile of 50 Squamous Cell Carcinomas of the Soft Palate (Jamal, B. Xu, Vanderbilt, Berger, S. Dogan – Head and Neck Pathology)

[Poster #217] Frequency of Dysplasia/Carcinoma and Foveolar Atypia Associated with Gallbladder Cancer Risk: Comparative Analysis in Mapped/Totally Sampled Gallbladders from High-Risk Versus Low-Risk Regions (Askan, Basturk – Pancreas Pathology)


[Poster #221] Do We Still Really Need to Count Mitoses for PanNETs? Proper Ki67 Counting Negates the Need for the Cumbersome and Problematic Mitotic Count Required in the Current WHO-2017 Grading Scheme (Askan, Basturk – Pancreas Pathology)

[Poster #235] NTRK Fusion Detection Across Three Assays and 29,000 Tumors (Solomon, Benayed, Ladanyi, Hechtman - Pathobiology)

[Poster #242] Understanding the Metastatic Process by Deep Proteomic Analysis of Primary Colon
Cancers and Matched Liver Metastases Using Clinical FFPE Tissues (Y. Zhou, Tanaka, Roehrl – Pathobiology)

[Poster #244] Deep Proteomics of Colorectal Cancer Liver Metastases Uncovers Prognostic Factors and Highly Promising Therapeutic Targets (Tanaka, Y. Zhou, Roehrl – Pathobiology)

[Poster #245] Deep Proteomics of Gastrointestinal Cancers Can Distinguish Tumor Location, Histology, and New Post-Genomic Subtypes (Tanaka, Y. Zhou, Roehrl – Pathobiology)


[Poster #256] Are Metaplastic Breast Carcinomas and Uterine Carcinomas Genetically Related (Pareja, Brogi, Wen, Weigelt, Reis-Filho - Pathobiology)

4:15 pm Maude Abbott Lecture – Dr. David Klimstra

Potomac Ballroom

“Acini, Islets, and Associated Pancreatic Neoplasia: A Journey of Technological Evolution in Research and Diagnostics”

Tuesday Evening Special Session

5:30-7:00 pm: Exhibitor Seminar: Biocartis – Potential of Ultra-Rapid Mutational Analysis in Oncology-Based Applications: Ultra-Rapid Mutational Analysis Complementing NGS Workflows in High Volume Laboratories – Maria Arcila [Exhibitor Seminar Room 1]

5:30-7:30 pm – MSKCC Pathology Alumni Reception

(Woodrow Wilson B / Gaylord National Resort & Convention Center)

Wednesday March 20

Wednesday Morning Interactive Microscopy

8:00-9:30 am – Diagnostic Approach to Renal Tumors with Papillary Architecture: Updates Using 2016 WHO Classification – Ying-Bei Chen [Chesapeake E]
Wednesday Morning Short Course

8:00 am – 12:00 pm – Short Course #33: Dynamic Evolution in Prostate Cancer Diagnosis and Reporting: What the Pathologist Needs to Know (Samson Fine [MSKCC] / Cristina Magi-Galluzzi)

Wednesday Morning Poster Session [Exhibit Hall]

[Poster #43] Sclerosing Pneumocytoma of Lung: Cytomorphologic Findings and Immunoprofile of a Rare Entity (Muller, Rekhtman – Cytopathology)

[Poster #138] In Organ-Conained Prostate Cancer at Radical Prostatectomy, neither Total Tumor Volume nor Maximum Tumor Diameter of the Index Lesion Aids in Prediction of Biochemical Recurrence (Fine, Al-Ahmadie, Chen, Gopalan, Srintrapun, Tickoo, Reuter – Genitourinary Pathology)

[Poster #256] Evaluation of H3K27me3 Expression as a Marker of EZH2 Activation in SMARCA4/SMARCA2-Deficient Tumors and Candidate Biomarker for Trials of EZH2 Inhibitors (Kezlarian, Sauter, Travis, Ladanyi, Rekhtman – Pulmonary Pathology)

Wednesday Afternoon Poster Session [Exhibit Hall]

[Poster #29] Immunohistochemical Assessment of HRAS Q61R Mutations in Breast Adenomyoepitheliomas (Pareja, Wen, Jungbluth, Brogi, Weigelt, Reis-Filho – Breast Pathology)

[Poster #46] Secretory Carcinoma of the Breast: Clinicopathologic Profile of 14 Cases Emphasizing Distant Metastatic Potential (Brogi, Pareja, Murray, Weigelt, Reis-Filho, Wen – Breast Pathology)


[Poster #75] Fine Needle Aspiration Cytology of Benign and Malignant Soft Tissue and Bone Tumors: An Institutional Experience Over a 10-Year Period (Muller, Agaram – Cytopathology)

[Poster #117] Residual Neoplasia Limited to the Mucosa in Rectal Resections for Adenocarcinoma Post-Neoadjuvant Therapy: Frequency, Morphological Spectrum and Potential Clinical Implications (Vyas, Vakiani, Hechtman, Klimstra, Shia – Gastrointestinal Pathology)


[Poster #221] Uterine Rhabdomyosarcomas: Targeted Capture and RNA Sequencing Analyses of Three Cases (Pareja, Chiang, Reis-Filho, Weigelt – Gynecologic Pathology)

[Poster #228] PICALM-MLLT10 Fusion Commonly Presents with Extramedullary Acute Leukemia and Often with a Mixed Phenotype (MPAL) (Tashkandi, Xiao, Roshal, Y. Zhang, Arcila, Benayed, Sen, Ho, A. Dogan, Petrova-Drus – Hematopathology)
[Poster #230] Abnormal Immature B-Lymphoblast Population in MDS and Non-CML MPN: Diagnostic Implications (Xiao, Kumar, Arcila, Y. Zhang, Roshal – Hematopathology)

[Poster #252] Sensitive and Ultra-Rapid BRAF V600E Mutation Assessment in Hairy Cell Leukemia from Stained Smear Slides, Blood and Bone Marrow without Pre-Extraction (Gandia, Arcila, Nafa, Ho, Roshal – Hematopathology)

[Poster #257] Toward an Automated Scoring Algorithm of Fluorescence in Situ Hybridization (FISH) on Formalin-Fixed Paraffin-Embedded (FFPE) Tissues Using a Confocal Whole Slide Image Scanner and Image Analysis Software (Y. Zhang, Hameed, Yagi – Informatics)

[Poster #275] Machine Learning-Based Natural Language Processing for Automated Extraction and Standardized Annotation of IHC Results from Free Text Pathology Reports (Roehrl – Informatics)

[Poster #280] Digital Imaging for Systematic Validation of Spatially Annotated Mirror-Image Simultaneous Flash Frozen and FFPE Tissue Banking for Research (Bhanot, Roehrl – Informatics)

**Wednesday Evening Specialty Conference**

7:30 pm (Evening Specialty Conference – Bone and Soft Tissue Pathology): Case 2 – Cristina Antonescu [Maryland Ballroom C/D]

**Thursday March 21**

**Thursday Morning Short Course**

8:00-11:30 am – Short Course #9: Challenging Frozen Sections: When Do I Stick My Neck Out…and How Far? (Timothy D’Alfonso [MSKCC] / Alain Borczuk / Brian Robinson / Theresa Scognamiglio / Rhonda Yantiss)

**Thursday Afternoon Short Course**

1:00 – 4:30 pm – Short Course #21: Practical Molecular Diagnostics for the Practicing Surgical Pathologist (Maria Arcila [MSKCC] / Laura Tafe)

1:00 – 4:30 pm – Short Course #60: Surgical Pathology and Cytopathology of the Pancreas and Ampulla (Olca Basturk [MSKCC] / Michelle Dian Reid)