MSKCC@USCAP 2020
LACC = Los Angeles Convention Center

Saturday February 29

Saturday Evening Companion Meeting

8:00 pm (Endocrine Pathology Society): Anaplastic Thyroid Carcinoma: Everything the Pathologist Needs to Know – Bin Xu [LACC 403B]

8:50 pm (Pancreatobiliary Pathology Society): Mucinous Cystic & Intraductal Neoplasms of the Pancreatobiliary Tract – David Klimstra [LACC 502A]

Sunday March 1

Sunday Afternoon Companion Meeting

2:30 pm (Genitourinary Pathology Society): Molecular Stratification of Kidney Cancer: Clinical Relevance of Molecular Types Emphasized – Ying-Bei Chen [LACC 502A]

2:45 pm (North American Society of Head and Neck Pathology): Latest Advances in the Diagnosis of NIFTP – Ronald Ghossein [LACC 402A-B]

4:00 pm (International Society of Bone and Soft Tissue Pathology): Soft Tissue Spindle Cell Neoplasms: Emerging Entities – Narsi Agaram [LACC 408B]

4:30 pm (International Society of Gynecological Pathology): S100 and NTRK Staining to Report NTRK Fusion Sarcoma of the Cervix – Sarah Chiang [LACC 403B]

5:30-7:00 pm – Fellowship Fair
LACC West – Petree Hall D

Sunday Evening Companion Meeting

9:00 pm (International Society of Breast Pathology): Rare Types of Breast Carcinomas – Jorge Reis-Filho [LACC 502A]
Monday March 2

Monday Early AM Satellite Symposium

6:00 am – 7:45 am: Increasing Importance of HER2 Testing in the Context of an Expanding Targeted Therapies Landscape – Gastrointestinal Cancer: Latest Updates and Practical Guidelines for Pathologists – Laura Tang [LACC 515A]

Monday Morning Platform Sessions

8:00 am – Adenoid Cystic Carcinoma of the Breast: A Single Institution Experience with Emphasis on Solid Variant with Basaloid Features (Schwartz, Brogi, Pareja, Weigelt, Reis-Filho, Wen – Breast Pathology – LACC 515B)

8:00 am – Reporting Trends, Practices, and Resource Utilization in Neuroendocrine Tumors of the Prostate Gland: A Survey of Genitourinary (GU) Pathologists (Gopalan – Genitourinary Pathology – LACC 403B)

8:00 am – Recurrent Chromatin Remodeling Pathway Mutations Identified in Ovarian Juvenile Granulosa Cell Tumors (Chiang – Gynecologic Pathology – LACC 502A)

8:15 am – Prostate Cancer with Germline DNA Damage Repair Gene Alterations: A Clinical and Pathologic Assessment (Gopalan, Fine, Chen, Al-Ahmadie, Sarungbam, Tickoo, Reuter – Genitourinary Pathology – LACC 403B)

8:45 am – HER2 Gene Amplification and Protein Expression Assessment in 44 Salivary Duct Carcinomas (Ferguson, Momeni-Boroujeni, Zheng, Ho, Arcila, Ross, S. Dogan – Head & Neck Pathology – LACC 402A-B)

9:00 am – A Next Generation Sequencing Study of Seven Primary Central Chondrosarcomas in the Pediatric Population Showed Recurrent IDH Mutations and a Novel EWSR1-SMAD3 Fusion (L. Zhang, Nafa, Hameed – Bone & Soft Tissue Pathology – LACC 408A)

9:00 am – Head and Neck (H&N) Malignant Mesenchymal Neoplasms with GLI-1 Alterations: A Pathologic Entity with Distinct Histologic Features and Potential for Distant Metastasis (Xu, Antonescu – Head & Neck Pathology – LACC 402A-B)

9:15 am – The Impact of MYC Amplification on Clinico-Pathologic Features and Prognosis of Radiation-Associated Angiosarcomas of the Breast (Kuba, Xu, Antonescu – Breast Pathology – LACC 515B)

9:15 am – Epigenetic Signatures of Synchronous and Metastatic Endometrioid Adenocarcinomas (Weigelt, Chiang – Gynecologic Pathology – LACC 502A)

11:00 am – Morphologic and Immunohistochemical (IHC) Features of Carcinoma Involving Microglandular Adenosis (MGA) of the Breast Following Neoadjuvant Therapy (NAT) (Grabenstetter, D’Alfonso, Wen, Brogi, Tan – Breast Pathology – LACC 515B)
11:15 am – A Molecular Reappraisal of Glomus Tumors (GT): A Study of 93 Cases with a Focus on NOTCH Gene Fusions (Agaram, Y. Zhang, Antonescu – Bone & Soft Tissue Pathology – LACC 408A)

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

[Poster #191] Clinico-pathologic and Genomic Analysis of Copy Number-High Endometrial Carcinomas (Dahoud, Momeni-Boroujeni, Vanderbilt, Soslow – Gynecologic Pathology)

[Poster #197] Evaluation of HPV RNA In-Situ Hybridization (ISH) and p16 Immunohistochemistry (IHC) Concordance in Endocervical Adenocarcinomas (Soslow – Gynecologic Pathology)

[Poster #202] Molecular Landscape of HPV Negative Vulvar Squamous Cell Carcinoma Including NOTCH Alterations (Salama, Momeni-Boroujeni, Vanderbilt, Soslow – Gynecologic Pathology)

[Poster #236] Novel Biologic Subsets of Small Cell Lung Carcinoma Defined by ASCL1 and NeuroD1: Immunohistochemical and Histopathological Characterization (Baine, Travis, Sauter, Chang, Buonocore, Jungbluth, Rekhtman – Pulmonary Pathology)

**Monday Afternoon Hot Topics**

12:00-1:00 pm – Hot Topics in Pathology 01 – GU Pathology – The Testis: From Grossing to Reporting – Victor Reuter [LACC 406A-B]

**Monday Afternoon Interactive Microscopy**

1:30-3:00 pm – Uncommon Histologic Subtypes of Triple Negative Breast Cancer – Hannah Wen [LACC 505]

**Monday Afternoon Platform Sessions**

1:00 pm – Associations between FGFR3 Activating Fusions, Molecular Genetic Profiles, and Epigenetic Methylation Signatures in Glioblastomas (Mata, Benhamida, Ferguson, Benayed, Rosenblum, Arcila, Ladanyi, Bale – Neuropathology – LACC 403B)

2:30 pm – Dissecting Anaplastic Thyroid Carcinoma (ATC): Comprehensive Clinico-pathologic, Immunophenotypic, and Molecular Studies of 357 Cases (Xu, S. Dogan, Katabi, Ghossein – Endocrine Pathology – LACC 402A-B)
Monday Afternoon Poster Session [Exhibit Hall]


[Poster #15] Morphologic Variants of Lobular Carcinoma in Situ (LCIS) Diagnosed on Core Needle Biopsy: Clinico-pathologic Features and Findings at Follow-up Excision (Kuba, Murray, Brogi – Breast Pathology)

[Poster #64] Cytologic Features of Undifferentiated and Dedifferentiated Carcinomas of the Endometrium (Soslow, Murali – Gynecologic Pathology)

[Poster #122] Quantification of Pattern 4 in Patients with Highest Needle Biopsy Gleason Score 4+4=8/Grade group 4 is Associated with Radical Prostatectomy Downgrading (Kopach, Al-Ahmadie, Chen, Gopalan, Sarunbang, Sirintrapun, Tickoo, Reuter, Fine – Genitourinary Pathology)

[Poster #141] Massively Parallel Sequencing Analysis of Gastric-Type Cervical Adenocarcinomas Reveals Mutations in Cell Cycle-Regulation Genes and Rare Potentially Targetable ERBB2 Mutations (Weigelt, Park, Murali – Gynecologic Pathology)


[Poster #221] Breast Implant-Associated Anaplastic Large Cell Lymphoma Diagnosis: Role of Flow Cytometry Studies (Chan, Roshal, Lin – Hematopathology)

[Poster #236] Histologic Challenges in Distinguishing Separate Primary Lung Carcinomas from Intrapulmonary Metastases Using Broad Next-Generation Sequencing as a Gold Standard for Determining Tumor Clonal Relationships (Chang, Sauter, Buonocore, Vanderbilt, Arcila, Travis, Ladanyi, Rekhtman – Pulmonary Pathology)

[Poster #254] Histologic Features of Desmoplastic Mesothelioma (DMM) (Baine, Travis, Klimstra, Sauter – Pulmonary Pathology)

[Poster #255] Utility of Methylthioadenosine Phosphorylase (MTAP), 5-Hydroxymethyl cytosine (5-HMC) and BAP1 Immunocytochemistry (ICC) in Cytology Specimens for the Diagnosis of Malignant Mesothelioma (Raza, Travis, Buonocore, Chang, Jungbluth, Rekhtman, Ladanyi, Sauter – Pulmonary Pathology)

[Poster #257] The Roles of Whole Block Imaging with Micro-Computed Tomography in Lung Adenocarcinoma (Rekhtman, Travis, Yagi – Pulmonary Pathology)

[Poster #258] The Distinction Between Spread thru Air Spaces (STAS) and Artifacts in Selected Images is Highly Reproducible (Baine, Buonocore, Chang, Rekhtman, Sauter, Travis – Pulmonary Pathology)
Tuesday March 3

Tuesday Early AM Satellite Symposium

5:30 am – 7:45 am: Pathology Essentials: RET as a Diagnostic and Therapeutic Target in NSCLC and Thyroid Cancer – The Evolution of Pathologic Assessment in RET Alteration-Positive Solid Tumors – Marc Ladanyi [LACC 515A]

Tuesday Special Course

8:00 am – 5:15 pm: Molecular Diagnostic & Genomic Applications in Cancer: A Primer for the Pathologist – 2:35 pm – Britta Weigelt: Molecular Advances in Gynecologic Pathology: An Update for the Anatomic Pathologist [LACC 403B]

Tuesday Morning Platform Session

8:00 am – Molecular Subclassification of Copy Number-Low Endometrial Carcinomas (Momeni-Boroujeni, Weigelt, Vanderbilt, Soslow – Gynecologic Pathology – LACC 502A)

8:15 am – Three-Dimensional Vessel Extraction in Whole Block Imaging Using Deep Neural Networks (Hameed, Shia, Yagi – Informatics – LACC 404A-B)

8:30 am – The Significance of FIGO Grading in MSI-H and POLE-Mutated Endometrioid Endometrial Carcinoma (Kertowidjojo, Momeni-Boroujeni, Soslow – Gynecologic Pathology – LACC 502A)

8:30 am – Frequent RUNX1 and TP53 Mutations in Secondary Acute Myeloid Leukemia with Mixed Phenotype (Y. Zhang, Arcila, A. Dogan, Roshal, Xiao – Hematopathology – LACC 403A)


9:00 am – HER2 Immunohistochemistry in Invasive Micropapillary Breast Carcinoma: Complete Assessment of an Incomplete Pattern (Perron, Wen, Hanna, Brogi, Ross – Breast Pathology – LACC 515B)

9:00 am – Alterations in Chromatin Remodeling Genes in Endometrial Epithelial Tumors are Associated with Prognosis (Momeni-Boroujeni, Vanderbilt, Murali – Gynecologic Pathology – LACC 502A)

11:00 am – Frequency of Molecular Alteration Using a Targeted RNA Sequencing Approach in Uterine Mesenchymal Neoplasms (Maldonado, Momeni-Boroujeni, Benayed, Ladanyi, Park,
Soslow, Chiang – Gynecologic Pathology – LACC 502A)

11:15 am – Multifocal Invasive Mucinous Adenocarcinomas Involving Different Lobes are Clonally Related and Represent Intrapulmonary Spread as Defined by Molecular Profiling (S-R Yang, Chang, S. Dogan, Travis, Arcila, Ladanyi, Rekhtman – Pulmonary Pathology – LACC 518)

11:30 am – Gastrointestinal Stromal Tumors Arising in Uncommon Locations: Clinicopathologic Features and Risk Assessment of Esophageal, Appendiceal, and Colonic Tumors (Klimstra – Gastrointestinal Pathology – LACC Petree Hall C)

11:45 am – Erythroid/Megakaryoblastic Leukemia with TP53 and RUNX1 Mutations Frequently Occurs in Blast Transformation of Philadelphia Chromosome-Negative Myeloproliferative Neoplasms: A Single-Institution Experience with 56 Cases (Liu, Mata, Arcila, Y. Zhang, A. Dogan, Roshal, Xiao – Hematopathology – LACC 403A)

11:45 am – Machine Learning as an Ancillary Tool in the Assessment of Shaved Margins for Breast Carcinoma Excision Specimens (D’Alfonso, Hanna, Grabenstetter, Tan – Informatics – LACC 404A-B)

11:45 am – UV Genomic Signature Classifies Lung Melanomas of Unknown Primary as Metastases from Occult Cutaneous Melanomas (C Yang, Ladanyi, Travis, Busam, Rekhtman – Pulmonary Pathology – LACC 518)

Tuesday Morning Moderated Poster Session

10:14-10:21 am – Clinicopathologic and Genomic Analysis of Copy Number-High (CH-H) Endometrial Carcinoma (Dahoud, Momeni-Boroujeni, Vanderbilt, Soslow – LACC West Exhibit Hall A; Moderated Poster Room 2)

Tuesday Morning Poster Session [Exhibit Hall]

[Poster #2] Interobserver Variation of PD-L1 (SP142) Immunohistochemistry Interpretation in Breast Carcinoma (Hoda, Brogi, D’Alfonso, Grabenstetter, Giri, Hanna, Kuba, Murray, Vallejo, H. Zhang, Reis-Filho, Wen – Breast Pathology)

[Poster #3] PD-L1 Expression in Tumor-Infiltrating Lymphocytes of Invasive Breast Carcinoma (Hoda, Brogi, Grabenstetter, Weigelt, Reis-Filho, Wen – Breast Pathology)

[Poster #5] PD-L1 Expression in Metaplastic Breast Carcinoma (MBC) Using PD-L1 SP142 Assay and Concordance Among PD-L1 Immunohistochemical (IHC) Assays (Grabenstetter, Jungbluth, Hoda, Weigelt, Reis-Filho, H. Zhang, Brogi, Wen – Breast Pathology)

[Poster #32] Defining Crucial Pathologic Parameters in Thyroid Neoplasm Using 3D Whole Block Imaging (WBI) with Micro-resolution CT Scanner (MicroCT): A Proof of Concept (Xu, Katabi, Hameed, Ghossein, Yagi – Endocrine Pathology)
[Poster #40] Whole Block Imaging (WBI) Utilizing Micro-Computed Tomography (Micro-CT) Reveals Pathologic Information not Detected on Regular Histology: A Pilot Study of Rectal Cancer Resection Specimens (Hameed, Vakiani, Yagi, Shia – Gastrointestinal Pathology)

[Poster #46] Application of Whole Block Imaging (WBI) by Micro-Computed Tomography for the Evaluation of Endoscopic Submucosal Dissection Specimens (Yagi – Gastrointestinal Pathology)


[Poster #103] Urothelial Dysplasia: Diagnostic Value in Clinical Practice 20 Years Since the 1998 WHO/ISUP Consensus (Al-Ahmadie, Reuter – Genitourinary Pathology)

[Poster #117] Genomic Landscape of Non-Invasive Urothelial Carcinoma of the Bladder (Kennedy, Fine, Gopalan, Chen, Sarungbam, Sirintrapun, Arcila, Tickoo, Reuter, Al-Ahmadie – Genitourinary Pathology)

[Poster #140] Genetic Alterations in Mullerian Adenosarcoma with High-Grade Sarcoma Components (X. Wu, Momeni-Boroujeni, Soslow, Weigelt – Gynecologic Pathology)

[Poster #144] High NTRK3 Expression in High-Grade Endometrial Stromal Sarcomas (ESS) with BCRO Abnormalities (Momeni-Boroujeni, Benayed, Antonescu, Ladanyi, Chiang – Gynecologic Pathology)

[Poster #241] Mitosis Detection with Tiny-YOLO (Yagi – Informatics)

**Tuesday Afternoon Platform Session**

1:00-2:45 pm (Platform Presentations – Pulmonary Pathology): Jennifer Sauter, Co-Moderator [LACC 518]

1:00 pm – Solitary Fibrous Tumor of the Pancreas (Shia, Klimstra, Basturk – Pancreas Pathology – LACC 408B)

1:15 pm – International Endocervical Adenocarcinoma Criteria and Classification (IECC): An Independent Cohort with Clinical and Molecular Relevance (Park, Soslow – Gynecologic Pathology – LACC 502A)

1:30 pm – Homozygous Loss of CDKN2A/B and Complex Genomic Alterations Observed in Locally Advanced/Metastatic Mucinous, Tubular, and Spindle Cell Carcinoma (MTSCC) (C.
1:30 pm – Clinical and Pathological Determinants of Outcome in Invasive Stratified Mucinous Carcinoma (iSMILE) of the Cervix: An International Multicentric Study (Soslow, Park – Gynecologic Pathology – LACC 502A)

1:45 pm – Pancreatoblastomas and Acinar Cell Carcinomas Share Epigenetic Signatures Distinct From Other Neoplasms of the Pancreas (Benhamida, Basturk, Weigelt, Reis-Filho, Klimstra – Pancreas Pathology – LACC 408B)

2:00 pm – Local Recurrence of Benign and Borderline Phyllodes Tumors: Analysis of Margin Status and Clinico-pathologic Features (Perron, Brogi, Murray – Breast Pathology – LACC 515B)

**Tuesday Afternoon Poster Session [Exhibit Hall]**


[Poster #11] A Feasibility Study in the Automated Quantification of HER2 Gene Amplification in Breast Cancer Using Chromogenic In Situ Hybridization Whole Slide Images (Wong, Hanna, Edelweiss, Brogi, Hameed, Ross, Yagi – Breast Pathology)

[Poster #24] Genomic Analysis of Multifocal Ductal Carcinoma In Situ and Synchronous Invasive Ductal Carcinoma (Pareja, Wen, Weigelt, Reis-Filho – Breast Pathology)


[Poster #84] Clinicopathologic Characteristics of Young Patients with Oral Squamous Cell Carcinoma (OSCC) (Xu, Sethi, S. Dogan, Ghossein, Katabi – Head & Neck Pathology)

[Poster #116] Is Histologic Grade Prognostically Important Among Goblet Cell Neoplasms Confined to the Appendix (Umphress, Tang – Gastrointestinal Pathology)

[Poster #129] Esophageal Adenocarcinoma Showing Extensive Neuroendocrine Differentiation after Induction Chemo-Radiation: The Molecular View of a Poorly Understood Phenomenon (Beech, Tang, Klimstra, Shia – Gastrointestinal Pathology)

[Poster #137] Metastases to the Stomach: Frequent Fliers and Unexpected Guests (Shia – Gastrointestinal Pathology)

[Poster #156] Whipple-Ables: Clinico-pathologic Comparison of 1032 Cancers Removed by Pancreatoduodenectomy Based on Pathologic Re-Review Using Refined Site-Specific Criteria (Basturk – Pancreas Pathology)
[Poster #158] A Proposal for Improved T-Staging of Pancreatic Ductal Adenocarcinoma by Using Microscopic Examination as the Basis for Determining Size and T-Stage (Basturk – Pancreas Pathology)

[Poster #183] Type 1 Papillary Renal Cell Carcinomas with High Grade Features – Morphologic and Molecular Analysis (Kennedy, Al-Ahmadie, Fine, Gopalan, Sarungbam, Sirintrapun, Tickoo, Reuter, Chen – Genitourinary Pathology)

[Poster #187] Novel Biomarker for MiT Family Translocation Renal Cell Carcinoma (Tickoo, Reuter – Genitourinary Pathology)

[Poster #192] High Grade Unclassified Renal Cell Carcinoma with NF2-Loss – Morphologic and Molecular Analysis (Kopach, Al-Ahmadie, Fine, Gopalan, Sarungbam, Sirintrapun, Tickoo, Reuter, Chen – Genitourinary Pathology)

[Poster #204] Associations of KIT Mutations with Concurrent RAS/MAPK Pathway Driver Alterations in Seminomatous and Non-Seminomatous Germ Cell Tumors (Mata, S-R Yang, Ferguson, Liu, Sharma, Al-Ahmadie, Tickoo, Reuter, Arcila, Ladanyi, Vanderbilt – Genitourinary Pathology)

[Poster #281] Detection of RET Kinase Fusions Using DNA, RNA, and Protein-Based Methods (S-R Yang, Mata, Benayed, Rekhtman, Ladanyi, Jungbluth, Hechtman – Pathobiology & Techniques)

[Poster #300] Evaluation of T-Cell Receptor (TCR) Repertoire by Next-Generation Sequencing (NGS) Based TCR Gamma Chain Clonality Testing (Zhu, Ho, Petrova-Drus, Nafa, Quesada, A. Dogan, Arcila – Pathobiology & Techniques)

6:00-8:00 pm – MSKCC Pathology Alumni Reception

(Diamond 3/JW Marriott Los Angeles L.A. Live)

Wednesday March 4

Wednesday Long Course – 8:00 am-5:00 pm: Edi Brogi, Co-Session Chair [LACC 408A-B]

11:00-11:30 am – Problematic Breast Tumors Reassessed in Light of Novel Molecular Data – Jorge Reis-Filho

3:30-4:00 pm – The Never-Ending Saga of Papillary Lesions of the Breast – Edi Brogi

Wednesday Morning Interactive Microscopy
10:00-11:30 am – Diagnostic Approach to Renal Tumors with Papillary Architecture: Updates Using 2016 WHO Classification – Ying-Bei Chen [LACC 504]

**Wednesday Morning Short Course**

8:00 am – 12:00 pm – Short Course #09: New Concepts and Controversies in the Diagnosis of Pancreatobiliary and Gastrointestinal Tract Neuroendocrine Neoplasms (Olca Basturk / David Klimstra)

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

[Poster #14] *Androgen Receptor Splicing Variant-7 in Breast Carcinoma: Clinical and Pathologic Correlations* (Ferguson, Mata, Brogi, Ladanyi, Arcila, Benayed, Ross – Breast Pathology)

[Poster #18] *NR4A3 Expression is Consistently Absent in Acinic Cell Carcinomas of the Breast: A Potential Nosologic Shift* (Pareja, Reis-Filho – Breast Pathology)

[Poster #82] *Deep Proteomics of Diffuse-Type Gastric Cancer Uncovers New Therapeutic Targets and Accelerates Drug Repositioning* (Klimstra, Roehrl – Gastrointestinal Pathology)

[Poster #87] *Deep Proteomics of Colorectal Carcinoma Liver Metastases Uncovers New Tumor Subtypes and Therapeutic Targets* (Klimstra, Roehrl – Gastrointestinal Pathology)

[Poster #180] *TP53-Wildtype High-Grade Serous Tubo-Ovarian Carcinomas* (Chui, Soslow – Gynecologic Pathology)

[Poster #207] *Mesonephric and Mesonephric-like Carcinomas of the Female Genital Tract: Molecular Interrogation Including Three Cases Mixed with Serous and Mucinous Neoplasms* (Pareja, Reis-Filho, Weigelt, Park – Gynecologic Pathology)

[Poster #227] *Frequent TET2 Mutations in Histiocytic Neoplasms* (Liu, Petrova-Drus, A. Dogan, Yabe – Hematopathology)

[Poster #269] *Histologic Patterns of Lung Adenocarcinoma Reported on Biopsy Accurately Predict Composition of Resected Tumor* (Baine, Travis Buonocore, Chang, Rekhtman, Sauter – Pulmonary Pathology)

**Wednesday Afternoon Short Course**

1:30-5:30 pm – Short Course #49: Telecytology for Rapid On-Site Evaluation: From Implementation to Clinical Challenges (Oscar Lin [MSKCC] / Liron Pantanowitz)
Wednesday Afternoon Poster Session [Exhibit Hall]

[Poster #6] Genetic Alterations Targeting KIT in Breast Cancer (Ross, Zehir, Wen, Brogi, Weigelt, Reis-Filho, Pareja – Breast Pathology)

[Poster #9] TERT Promoter Mutations in Metaplastic Breast Cancer (Pareja, Wen Brogi, H. Zhang, Weigelt, Reis-Filho – Breast Pathology)

[Poster #13] Poor Response to Neoadjuvant Chemotherapy in Metaplastic Breast Carcinoma (Wong, Brogi, Wen – Breast Pathology)

[Poster #22] MET Gene Amplification in Breast Cancer (Maldonado, Ross, Zehir, Wen, Brogi, Weigelt, Reis-Filho, Pareja – Breast Pathology)

[Poster #44] Role of Flow Cytometry Studies in the Diagnosis of Classical Hodgkin Lymphoma in Cytology Specimens (Caniello, Chan, Roshal, Lin – Cytopathology)

[Poster #77] Targetable Alterations and Rare Fusions in Sarcomas Identified by Custom RNA Sequencing (Mata, Benayed, Agaram, Arcila, Ladanyi, Hameed – Bone & Soft Tissue Pathology)

[Poster #83] Should Medullary Thyroid Carcinomas Be Graded? (Xu, Katabi, S. Dogan, Ghossein – Endocrine Pathology)

[Poster #101] Clinicopathologic Feature of Varicella Zoster Virus Infection of the Upper Gastrointestinal Tract (Shia – Gastrointestinal Pathology)

[Poster #142] Heterogeneity of Signet Ring Cell Carcinoma at Different Primary Sites – Human Observation Precedes Artificial Intelligence (Dahoud, Imam, Tang – Gastrointestinal Pathology)

[Poster #150] Is It Justifiable to Move the Grade-1 Ki67 Index Cut-Off from 3% to 5% for Pancreatic Neuroendocrine Tumors as Has Been Proposed? The Cases that Fall to 3-5% Category Have Clinicopathologic Characteristics Closer to Those >5% (Basturk – Pancreas Pathology)

[Poster #162] Epithelial Inclusions in the Gallbladder: Cytoisospora belli Organisms or Degenerative Intracytoplasmic PAS-Positive Hyaline Globules (Basturk – Pancreas Pathology)

[Poster #216] Concordance of p53 Immunohistochemistry and TP53 Mutation Status in Endometrial Cancer (Soslow, Park, Chiang, Reis-Filho, Zehir, Murali, Weigelt – Gynecologic Pathology)

[Poster #235] The Chronology of Development of Endometrioid Endometrial and Ovarian Tumors in Patients with Synchronous Disease (Reis-Filho, Weigelt – Gynecologic Pathology)

[Poster #242] Concordance between Immunohistochemistry for DNA Mismatch Repair Proteins and Next Generation Sequencing for the Identification of Microsatellite Instability in Endometrial Cancer (Soslow, Park, Chiang, Reis-Filho, Zehir, Mandelker, Murali, Weigelt – Gynecologic Pathology)
Minimal Residual Disease Detection in B-ALL: Comparison of a High-Sensitivity, Single-Tube, 13-Color Flow Cytometry Assay and an NGS-Based Assay (Liu, Mata, Arcila, Nafa, A. Dogan, Ho, Roshal – Hematopathology)

**Thursday March 5**

**Thursday Morning Interactive Microscopy**

10:00-11:30 am – Large Gland Lesions of the Prostate on Needle Biopsy – Samson Fine [LACC 505]

**Thursday Afternoon Short Course**

1:00-4:30 pm – Short Course #33: Dynamic Evolution in Prostate Cancer Diagnosis and Reporting: What the Pathologist Needs to Know (Samson Fine [MSKCC] / Cristina Magi-Galluzzi)