



The 7th Annual CAPA Diagnostic Course

Saturday, September 11th— Sunday, September 12th, 2021

Organizing Committee: He Wang, Linsheng Zhang, Zaibo Li, Jingxin Qiu, Jinjuan Yao, Xiaoxian (Bill) Li, Deyin Xing, Jian Chen, Liam Chen, Chen Zhang, Zhaohai Yang, Weibiao Cao, Larry Wang, Lizhen Gui, Xin Jing, Lanjing Zhang, Yaxia Zhang, Jie Song, Miao Zhang, Jiehao Zhou, Xiuli Liu, Xin Han, Shaoxiong Chen, Marilyn Bui

Steering Committee: He Wang (Chair), Linsheng Zhang (Co-chair), Shaoxiong Chen (Education Committee Chair), Marilyn Bui (CAPA President)

Conference Overview:

Due to the COVID-19 pandemic, we moved the traditional CAPA diagnostic course on-line again this year. This 2-day course provides in-depth coverage on all topics including recent advance in pathology informatics, molecular pathology, and practical topics including those commonly encountered in daily diagnostic pathology in a format of didactic lectures and case-based presentations. Our keynote speaker of this year, Dr. Jason Hornick, will update us on the progress in applications of immunohistochemical tools in bone and soft tissue pathology. The course will be presented by national experts across all subspecialties of diagnostic pathology. The course will address the questions and challenges and provide the updates and expert experiences in diagnostic pathology that practicing pathologists encounter in day-to-day practice, help the practicing pathologists to avoid the commonly encountered diagnostic errors and become proficient in different subspecialties, and help residents and fellows with their subspecialty board exam preparations. The links of zoom meetings will be sent to the registrants by email.

Princeton HealthCare System is accredited by the Medical Society of New Jersey to provide continuing medical education for physicians. Princeton HealthCare System designates this activity for a maximum of thirteen point thirty-seven (13.37) AMA PRA Category 1 Credits. Physicians should claim only the credit commensurate with the

extent of their participation in the activity. If you have a disability that may require special assistance, please contact Janis Puleio, CME Coordinator at (609) 853-7450 or Dr. Lanjing Zhang directly.

Learning Objectives:

- A. Describe the most updated knowledge in all subspecialties of diagnostic pathology.
- B. Review the recent advances in pathology informatics and molecular pathology.
- C. Recognize the common pitfalls in diagnostic pathology.
- D. Discuss the art and science of diagnostic pathology.

Intended Audience:

This course is intended primarily for practicing pathologists, fellows, residents and other health care professionals.

Registration:

Please register and pay through: <https://forms.gle/predXUUwsUykwwBx5>

Fees.

Free to all registrants for CAPA members, while donations to the CAPA (a 501c(3) NPO) are welcome

\$80.00 for non-CAPA member .

Should you have questions with regard to registration, please contact Dr. Xin Han: "xinhan05@gmail.com"

Course Agenda

Saturday 9-11-2021

9:45-10:00 am: **Welcome and introduction of Keynote speaker:**

10:00-10:50 am. **Next-Generation Immunohistochemistry for Soft Tissue Tumors: From Differentiation to Molecular Genetics**

Keynote speaker: Jason Hornick,

Professor of Pathology, Harvard Medical School

Director of Surgical Pathology and Immunohistochemistry, Brigham & Women's Hospital

10:50- 11:00 am. Questions and Break

11:00 am-12:30 pm. Session #1. IHC and molecular pathology. Moderators: Jingxin Qiu and Jinjuan Yao

11:00-11:20 am. Zong-Ming (Eric) Chen, MD, PhD (Mayo Clinic, Rochester, MN): Practical updates in PD-L1 testing

11:20-11:40 am. Jingxin Qiu, MD, PhD (Roswell Park Comprehensive Cancer Center): The Comparison of two FDA Approved Agilent's PD-L1 22C3 Assays on Tumor Proportion Score and Combined Positive Score in Different Types of Cancers

11:40-12:00 pm. JinJuan Yao, MD, PhD (Memorial Sloan Kettering Cancer Center): Molecular updates on solid tumors: a case-based review

12:00-12:20 pm. Gang Zheng, MD, PhD (Mayo Clinic): Molecular updates on myeloid neoplasms: a case-based review

12:20 –12:30 pm. Questions and Break

12:30-2:00 pm. Session #2. Pathology Informatics. Moderator: Zaibo Li

12:30-12:50pm. Limin Yu, MD, MS (PathAI): Digital Pathology Demystified

12:50-1:10pm. Zaibo Li, MD, Ph.D, MBA (The Ohio State University): Fully digital for anatomic pathology practice: experience and lessons learned from an academic center

1:10-1:30pm. Marilyn M. Bui, MD, PhD (Moffitt Cancer Center): A Practical Guide to Embarking on the Journey of Digital Pathology and AI

1:30-1:50pm. Lanjing "L.J." Zhang, MD (Princeton Medical Center/Rutgers University): AI-based prediction of cancer outcomes

1:50-2:00 pm Questions and Break

2:00-3:00 pm Break (non-CME activity): Leadership, Professionalism, Wellness and Friendship Development

Moderators: Yun Gong, MD; Wei Zhang, MD, PhD; Xiuli Liu, MD, PhD

3:00-4:30 pm Session #3. Breast Pathology: Moderator: Xiaoxian Li

3:00-3:25 pm. Yihong Wang, MD (Rhode Island Hospital): Neuroendocrine Neoplasm (NEN) of the Breast – Current Opinion and Practical Application

3:25-3:50 pm. Shi Wei, MD, PhD (University of Alabama at Birmingham): Mimics of invasive carcinoma: beware of mines

3:50-4:15 pm. Xiaoxian (Bill) Li, MD, PhD (Emory University): diagnosing fibroepithelial lesions in core biopsy

4:15-4:30 pm Question & answer

4:30-6:00 pm Session #4. GYN Pathology: Moderator: Deyin Xing

4:30-4:50 pm. Pei Hui, MD, PhD (Yale University, New Haven, CT): Intraoperative Consultation in Gynecologic Pathology

4:50-5:10 pm. Jian-Jun Wei, MD (Northwestern University Feinberg School of Medicine): HMGA2: A myriad function in tumorigenesis and a biomarker in gynecologic neoplasia

5:10-5:30 pm. Gloria Zhang, MD, MPH (Cleveland Clinic): Endocervical adenocarcinoma: what is new?

5:30-5:50 pm. Deyin Xing, MD, PhD (The Johns Hopkins University School of Medicine): NTRK fusion sarcomas in the uterine cervix: diagnosis and differential diagnosis

5:50-6:00 pm Question & answer

6:00-7:30 pm Concurrent session 1A. Clinical Pathology/Neuropathology: Moderator: Jian Chen/Liam Chen

6:00-6:20 pm. Jian Chen, MD, PhD (Houston Methodist Hospital and Weill Cornell Medical College): To bleed or not to bleed? That is the question: mixing study interpretation

6:20-6:40 pm. Zhenya Tang, MD, PhD (University of Texas MD Anderson Cancer Center in Houston, Texas): Tissue FISH: beyond the techniques

6:40-7:00 pm. Xinhai R. Zhang, MD, PhD (Rush University Medical Center): A pineal mass lesion: what is your differential?

7:00-7:20 pm. Liam Chen, M.D., Ph.D (University of Minnesota Medical School): Neuropathology of COVID-19

7:20-7:30 pm Questions and Break

6:00-7:30 pm Concurrent session 1B. Thoracic/Head & neck pathology, Moderator: Chen Zhang/He Wang

6:00-6:20 pm. HaoDong Xu, MD, PhD (University of Washington Medical Center, Seattle, WA): An update on the classification and pathology of lung tumors and pleural mesothelioma

6:20-6:40 pm. Chen Zhang, MD, PhD (Indiana University School of Medicine, Indianapolis, IN): Cystic Lung Diseases Presenting as Spontaneous Pneumothorax

6:40-7:00 pm. Qiuying Shi, MD, MS (Emory University) Low grade intraductal carcinoma of salivary gland and its mimics

7:00-7:20 pm. Jinping Lai, MD, PhD (Kaiser Permanente Sacramento Medical Center): Thyroid cancer: common things uncommon

7:20-7:30 pm Questions and Break

Sunday 9-12-2021:

10:00-11:30 am Session #5. GI pathology. Moderator: Zhaohai Yang

10:00-10:20 am. Zhaohai Yang, MD, PhD (University of Pennsylvania): Differential Diagnosis between High-grade Well-differentiated Neuroendocrine Tumor and Poorly Differentiated Neuroendocrine Carcinoma

10:20-10:40 am: Wei Jiang, MD, PhD (Thomas Jefferson University): Interesting Cases of GI Mesenchymal Lesions

10:40-11:00 am: Wei Chen, MD, PhD (Ohio State University): Cholangiocarcinoma: The Surgical Pathologist's Perspective

11:00-11:20 am: Changqing (Cathy) Ma, MD, PhD (University of Pittsburgh Medical Center): Updates on the Histologic and Molecular Classification of Gastric adenocarcinoma

11:20-11:30 am. Questions and breaks

11:30- 1:00 am Session #6. Cytopathology: Pancreatic/GI cytopathology. Moderator: Xin Jing

11:30-11:50 am. Xiaoqi Lin, MD, PhD (Feinberg School of Medicine – Northwestern University): Biopsy of a liver mass

11:50am-12:10 pm. Zhongren (David) Zhou, MD, PhD, FACP (Rutgers University): Non-common pancreatic diseases

12:10-12:30 pm. Huihong Xu, MD (Boston University Medical School): Neuroendocrine tumor of pancreas.

12:30-12:50 pm. Dan Lu, MD, PhD (Icahn School of Medicine at Mount Sinai): A 65 y/o female with a pancreatic body mass.

12:50-1:00 pm. Questions and breaks

1:00-2:00 pm Break; Social activity/networking. Moderator: Marilyn Bui

2:00 – 3:30 pm Concurrent session #2A. Autopsy pathology/pediatric pathology. Moderators: Weibiao Cao/Larry Wang

2:00-2:20 pm. Weibiao Cao, MD (Brown University): Mixed neuroendocrine-non-neuroendocrine neoplasm (MiNEN) of the appendix: pre-mortem and postmortem findings

2:20-2:40 pm. Zhao Ming (David) Dong, MD (University of Washington at Seattle): Postmortem diagnosis of a rare hematologic disease: The importance of the Autopsy

2:40-3:00 pm. Jun Qin Mo, MD (University of California San Diego): Histiocytic disorders in children, diagnostic challenges and update

3:00-3:20 pm. Jiancong Liang, MD, PhD (Vanderbilt University Medical Center): Hepatoblastoma and pediatric hepatocellular carcinoma: updates and challenges.

3:20-3:30 pm: Question and Break

2:00 – 3:30 pm Concurrent session #2B. Hematopathology. Moderators: Jiehao Zhou & Huanyou Wang

2:00-2:20 pm. Hongbo Yu, MD, PhD (Veterans Affairs Boston Healthcare System, Boston, Massachusetts): Mimics of Lymphoma in Immunocompromised Patients

2:20-2:40 pm. Ji (Jane) Yuan, MD, PhD (Mayo Clinic, Rochester, Minnesota): Aberrant phenotype of T-cells = T-cell lymphoma?

2:40-3:00 pm. Min Shi, MD, PhD (Mayo Clinic, Rochester, Minnesota): Common benign mimics of myelodysplastic syndrome (MDS)

3:00-3:20 pm. Xueyan Chen, MD, PhD (University of Washington, Seattle, WA): Mimics of Minimal residual disease in the era of immunotherapy

3:20-3:30 pm: Question & answer

3:30 – 5:00pm Concurrent session 3A. Bone & soft tissue/Dermatopathology. Moderator: Yaxia Zhang/Jie Song

3:30-3:50 pm. Shi Wei MD, PhD (University of Alabama at Birmingham): Giant cell-rich tumors of bone and soft tissue

3:50-4:10 pm. Paul Zhang MD (Hospital of University of Pennsylvania) Update on Soft Tissue Pathology

4:10-4:30 pm. Shaofeng Yan, MD, PhD (Geisel School of Medicine at Dartmouth): Ancillary tools in the diagnosis of melanocytic lesions

4:30-4:50 pm. Ruifeng Guo, MD, PhD (Mayo Clinic College of Medicine and Science Rochester): Non-melanoma skin cancer in the era of molecular profiling with application in clinical practice

4:50–5:00pm Question and Break

3:30 – 5:00pm Concurrent session 3B. GU pathology. Moderator: Miao Zhang

3:30-4:00 pm. Ying-Bei Chen, MD, PhD (Memorial Sloan Kettering Cancer Center):
Eosinophilic/oncocytic renal neoplasms – a practical guide to the growing list of new and
emerging entities

4:00-4:430 pm. Charles Guo, MD (University of Texas MD Anderson Cancer Center): Recent
Development in Pathologic Diagnosis of Prostate Cancer.

4:30-5:00 pm. Jim Zhai, MD, PhD (Mayo Clinic Florida): Glandular lesions in urinary bladder

5:00 - 6:30 pm: Duotou Wengongtuan performance, organized by Lizhen Gui

Faculty List (Alphabetically)

Marilyn Bui, MD, PhD Professor, Moffitt Cancer Center

Weibiao Cao, MD, PhD Associate professor, Brown University

Jian Chen, MD, PhD: Associate professor, Houston Methodist Hospital and Weill
Cornell Medical College

Liam Chen, MD, PhD: University of Minnesota Medical School

Shaoxiong Chen, MD, PhD: Associate professor, Indiana University School of Medicine

Wei Chen, MD, PhD: Associate professor, Ohio State University

Xueyan Chen, MD, PhD: University of Washington

Ying-Bei Chen, MD, PhD: Memorial Sloan Kettering Cancer Center

Zong-Ming (Eric) Chen, MD, PhD: Associate professor, Mayo Clinic

Zhao Ming (David) Dong, MD, PhD: University of Washington at Seattle

Lizhen Gui, MD, PhD: Northwest Arkansas Pathologist Associates

Charles Guo, MD, PhD: Professor, University of Texas MD Anderson Cancer Center

Ruifeng Guo, MD, PhD: Assistant professor, Mayo Clinic College of Medicine and
Science Rochester

Xin Han, MD: Professor, University of Texas MD Anderson Cancer Center

Jason Hornick, MD, PhD: Professor, Brigham & Women's Hospital, Harvard university

Pei Hui: Professor, MD, PhD, Professor, Yale University

Wei Jiang, MD, PhD: Associate professor, Thomas Jefferson University

Xin Jing, MD: Professor, University of Michigan

Jinping Lai, MD, PhD, Kaiser Permanente Sacramento Medical Center

Xiaoxian (Bill) Li, MD, PhD: Associate professor, Emory University

Zaibo Li, MD, PhD: Associate professor, Ohio State University

Jiancong Liang, MD, PhD: Assistant professor, Vanderbilt University Medical Center

Xiaoqi Lin, MD, PhD: Professor, Feinberg School of Medicine, Northwestern University

Xiuli Liu, MD: Professor, University of Florida

Dan Lu, MD, PhD: Assistant professor, Icahn School of Medicine at Mount Sinai

Changqing (Cathy) Ma, MD, PhD: Associate professor, University of Pittsburgh Medical Center

Jun Qin Mo, MD, PhD: Professor, University of California San Diego

Jingxin Qiu, MD, PhD: Professor, Roswell Park Comprehensive Cancer Center

Min Shi, MD, PhD: Associate Professor of Pathology, Mayo Clinic, Rochester, Minnesota

Qiuying Shi, MD: Assistant professor, Emory University

Jie Song, MD: Pathology Consultants, Inc.

Zhenya Tang, MD, PhD: Associate professor, University of Texas MD Anderson Cancer Center

He Wang, MD, PhD: Associate professor, Yale university

Huanyou Wang, MD, PhD: Professor of Pathology, UCSD

Larry Wang, MD, PhD: Professor, University of Southern California

Yihong Wang, MD, PhD: Associate professor, Rhode Island Hospital

Shi Wei, MD, PhD: Professor, University of Alabama at Birmingham

Jian-Jun Wei, MD, PhD: Professor, Northwestern University Feinberg School of Medicine

Deyin Xing, MD, PhD: Associate professor, Johns Hopkins University School of Medicine

HaoDong Xu, MD, PhD: Professor, University of Washington Medical Center

Huihong Xu, MD: Assistant professor, Boston University Medical School

Shaofeng Yan: Associate professor, Geisel School of Medicine at Dartmouth

Zhaohai Yang, MD, PhD: Associate Professor, Hospital of University of Pennsylvania

JinJuan Yao, MD, PhD: Assistant professor, Memorial Sloan Kettering Cancer Center

Hongbo Yu, MD, PhD: Veterans Affairs Boston Healthcare System, Harvard University

Limin Yu, MD: Medical Director of Pathology, PathAI

Ji (Jane) Yuan, MD, PhD: Mayo Clinic, Rochester

Jim Zhai, MD, PhD: Professor and Consultant Pathologist, Mayo Clinic Florida

Chen Zhang, MD, PhD: Associate professor, Indiana University School of Medicine

Gang Zheng, MD, PhD: Associate professor, Mayo Clinic

Gloria Zhang, MD, PhD: Staff pathologist, Cleveland Clinic

Lanjing "L.J." Zhang, MD: Professor, Rutgers University

Linsheng Zhang, MD, PhD: Associate professor, Emory University

Miao Zhang, MD, PhD: Associate Professor of Pathology, University of Texas MD Anderson Cancer Center

Paul Zhang, MD: Professor, Hospital of University of Pennsylvania

Xinhai R. Zhang, MD, PhD: Assistant Professor, Rush University Medical Center

Yaxia Zhang, MD, PhD: Associate professor, Hospital for special surgery/Cornell university

Jiehao Zhou, MD, PhD: Associate professor, Indiana university

Zhongren (David) Zhou, MD, PhD, Professor, Rutgers University