CURRICULUM VITAE

Date of Revision: 9/8/2025

Name: Guoping Cai, M.D., M.S.

Professor, Department of Pathology

School: Yale University School of Medicine

Education:

09/78-07/83	Wenzhou Medical College, MD
09/85-07/88	Wenzhou Medical College, MS
07/01-06/05	Resident, Anatomic and Clinical Pathology, Department of Pathology, New York University School of Medicine, New York, New York
07/05-06/06	Fellow, Cytopathology, Department of Pathology, New York University School of Medicine, New York, New York

Career/Academic Appointments:

07/83-08/85	Instructor, Department of Pathophysiology, Wenzhou Medical College, Wenzhou, China
07/88-12/92	Lecturer, Department of Pathophysiology, Wenzhou Medical College, Wenzhou,
	China
01/93-06/97	Postdoctoral Fellow and Research Associate, Department of Pharmacology, Drexel University College of Medicine (formerly Medical College of Pennsylvania and Hahnemann University), Philadelphia, Pennsylvania
07/97-06/99	Postdoctoral Fellow, NIH Postdoctoral Training Program in the Molecular and Cellular Mechanism of Aging, Drexel University College of Medicine, Philadelphia, Pennsylvania
07/99-06/01	Research Assistant Professor, Department of Pharmacology & Physiology, Drexel University College of Medicine, Philadelphia, Pennsylvania
07/06-01/09	Assistant Professor, Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania
02/09-06/13	Assistant Professor, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut
07/13-06/18	Associate Professor, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut

07/18-present Professor, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut

Administrative Positions:

- 07/90 12/92 Associate Director, Research Laboratory for Cor Pulmonale, Wenzhou Medical College, Wenzhou, China
- 07/08 01/09 Rotation Director, Pathology Residency and Fellowship Programs, University of Pittsburgh Medical Center Shadyside Hospital, Pittsburgh, Pennsylvania
- 07/18-present Associate Director of Cytopathology, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut
- 07/23-12/23 Director of Gross Room and Frozen Section Service, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut
- 07/23-present Pathologist, Yale School of Medicine Biorepository, Yale University, New Haven, Connecticut
- 07/24-present Director, Yale Pathology Grand Rounds Program, Yale University School of Medicine, New Haven, Connecticut

Board Certification:

American Board of Pathology, Anatomic and Clinical Pathology, 08/2005 American Board of Pathology, Cytopathology, 09/2006 (recertified in 2016)

Professional Honors and Recognition:

1997	Glenn Postdoctoral Competition Award from American Aging Association
2008	Research Award from Papanicolaou Society of Cytopathology (senior author)
2009	Research Award from International Society of Urological Pathology (contributing author)
2009	Surgical Pathology Award from the United States and Canadian Academy of Pathology (contributing author)
2009	Stowell-Orbison Certificates of Merit from the United States and Canadian Academy of Pathology (contributing author)
2012	Research Award from the Papanicolaou Society of Cytopathology (senior author)
2012	The Averill A. Liebow Award from the Department of Pathology Yale University School of Medicine
2018	Best Abstract Award from the International Association of Chinese Pathologists (senior author)

2019	Zu Hua Gao Outstanding Service Award from the Chinese American Pathologists
	Association

2020 Honorary Master of Arts degree from Yale University

Grants, Research Fundings and Clinical Trials:		
1997 – 1999	Postdoctoral Research Stipend, National Institute of Health National Institute of Aging, Bethesda, Maryland	
2006 – 2009	Research Start-up Fund, Department of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania	
2009 – 2011	Research Start-up Fund, Department of Pathology, Yale University School of Medicine, New Haven, Connecticut	
2010 – 2012	Mechanisms of mutant epidermal growth factor receptor induced lung tumorigenesis, supported by National Institute of Health National Cancer Institute (PI: Katerina Politi)	
2011 – 2016	Clinical Trial (A biomarker-integrated targeted therapy study in previously treated patients with advanced non-small cell lung cancer, HIC#1108008990), Supported by Merck & Co., Inc., OSI Pharmaceuticals, Bayer Pharmaceuticals, Astra-Zeneca, and the National Cancer Institute (NCI) (PI: Roy Herbst)	
2011 – 2018	The Use of repeat biopsy in thoracic malignancy to evaluate molecular determinants of acquired resistance to targeted therapies, HIC#1110009228), supported by Yale University National Cancer Institute Lung Cancer SPORE Program (PI: Scott Gettinger)	
2016 – 2020	Clinical Trial (Lung Cancer Molecular Consortium-3, LCMC-3, Neoadjuvant Trial), supported by Genentech (Yale Site Pathologist)	
2017 – 2020	Clinical Trial (Evaluation of the diagnostic yield for sarcoidosis using various bronchoscopic biopsy techniques) (PI: Jonathan Puchalski)	
2018 – 2020	Personalized therapy for p16-defiient melanoma, Supported by National Institute of Health National Cancer Institute (PI: Romi Gupta)	
2021 - 2023	A novel druggable epigenetic vulnerability pathway in breast cancer, supported by the Department of Defense research grant (PI: Narendra Wajapeyee)	
2021 - 2023	Understanding RNA splicing in tumor-cell adaptation and anti-tumor immunity, supported by Damon Runyon Cancer Research Foundation Innovation Award (PI: Luisa Escobar-Hoyos)	
2022 - 2023	Characterization of limited-stage small cell lung cancer: potential prognostic and therapeutic implications, supported by Yale SPORE in Lung Cancer (YSILC) Developmental Research Program (PI: Guoping Cai)	
2022 - 2027	Unleashing T-cell Anti-tumor Response Through Repair of Altered RNA Splicing and Antigen Minicry Recognition, sponsored by National Institute of Health/National Cancer Institute (PI: Luisa Escobar-Hoyos)	

Invited Speaking Engagements, Presentations, Symposia & Workshops:

- 2006 University of Washington School of Medicine, Department of Pathology, Seattle, USA:
 - Fine Needle Aspiration of the Pancreas: An Institutional Experience
- 2006 University of Pittsburgh Medical Center, Department of Pathology, Pittsburgh, USA:
 - Fine Needle Aspiration of the Pancreas: An Institutional Experience
- 2008 Yale University School of Medicine, Department of Pathology, New Haven, USA:
 - Diagnosis of Non-Hodgkin B-cell Lymphoma by Fine Needle Aspiration Biopsy: The Challenges and Promises
- 2008 The First Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Fine Needle Aspiration Biopsy: What Do We Expect from Cytopathologists?"
- 2009 University of Pennsylvania School of Medicine, Department of Pathology, Philadelphia, USA:
 - Cystic Pancreatic Neoplasms: Mucin Expression and Beyond
- 2010 Diagnostic Pathology Symposium: Update on Selected Topics in Breast/Gynecological Pathology and Cytopathology, Qingdao, China:
 - Indeterminate Diagnosis in the Fine Needle Aspiration Biopsy of the Thyroid Lesions"
- 2010 The Second Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Molecular Testing in Non-Small Cell Lung Cancers: A Choice or Necessity?
 - Endobronchial Ultrasound-Guided Fine Needle Aspiration Biopsy for Mediastinal Lymph Node Staging in Lung Cancers
- 2010 Zhejiang Association of Pathology Annual Meeting, Hangzhou, China:
 - Fine Needle Aspiration Biopsy of the Breast: Where Are We in the Twentieth-First Century?
- 2011 American Society of Cytopathology Cyto-Teleconference:
 - Diagnosis of B-Cell Non-Hodgkin Lymphoma by Fine Needle Aspiration Biopsy
- 2011 Interventional Pulmonology & Lung Cancer Symposium, Wenzhou, China:
 - Strategic Use of Lung Cancer Small Biopsy and Cytology Specimens
 - Endobronchial Ultrasound-Guided Fine Needle Aspiration Biopsy for Mediastinal Lymph Nodes
- 2012 The Third Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Clinicopathologic Characteristics of Lung Adenocarcinomas Harboring EML4-ALK Translocation
- 2012 Zhejiang Association of Pathology Annual Pathology Quality Assurance Conference, Hangzhou, China
 - Classification of Lung Adenocarcinoma: Historic Perspective and Current Concept

- Strategic Use of Small Biopsy and Cytology Lung Cancer Specimens
- 2013 The Fourth Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Triage of Lung Cancer Cytological Specimens in the Era of Targeted Therapies
- 2014 The Fifth Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Current and Emerging Markers in Non-Small Cell Lung Cancer
- 2015 The First Diagnostic Pathology Course, Chinese American Pathologists Association, August 29-30, New York
 - Endoscopic Ultrasound-Guided Fine Needle Aspiration of Solid Pseudopapillary Tumor of the Pancreas: Diagnostic Clues and Pitfalls
- 2015 University of Pennsylvania Perelman School of Medicine, Department of Pathology, Philadelphia, USA:
 - Genetic and Histologic Evolution of Lung Adenocarcinoma Harboring Epidermal Growth Factor Receptor Mutations
- 2015 Chinese Society of Pathology Annual Meeting, Kunming, China:
 - Endoscopic Ultrasound-Guided Fine Needle Aspiration Diagnosis of Pancreatic Lesions
- 2016 Chinese Interventional Pulmonology Annual Meeting, Chengdu, China
 - Revised Guidelines for Molecular Testing in Non-Small Cell Lung Cancers"
- 2016 National Cancer Center, The Fifth Forum on Standardization of Tumor Molecular Testing & The Second Sino-US Cancer Diagnostic Pathology Summit, Beijing, China:
 - Molecular Testing in Thyroid Nodules: Current Status and New Horizons
- 2017 Chinese American Pathologist Association, The Third Diagnostic Pathology Symposium, August 19-20, Chicago
 - Non-Small Cell Lung Cancer: Does One Term Fit All?
- 2017 Northwestern University Feinberg School of Medicine, Department of Pathology, Chicago, USA:
 - Targeted Therapy-Related Evolution of Non-Small Cell Carcinoma of the Lung
- 2017 Chines Thoracic Society Annual Meeting, Fuzhou, China:
 - Pathological Evaluation of Bronchoscopy-Guided Biopsy Specimens
 - How to Approach Rapid On-site Evaluation during Bronchoscopy-Guided Biopsy?
- 2017 Chinese Society of Pathology Annual Meeting, Suzhou, China:
 - Uncommon Lung Neoplasms: Morphologic Features and Ancillary Tests
- 2017 The Eighth Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Molecular Testing and PD-L1 Expression in Non-Small Cell Lung Cancers

- 2018 Chinese American Pathologists Association, The Fourth CAPA Diagnostic Pathology Course, August 19-20, New York
 - Fine Needle Aspiration Biopsy of Thyroid Nodules: It's Not Just All Morphology
- 2018 Montefiore Medical Center, Albert Einstein College of Medicine, Department of Pathology, New York, USA:
 - Evolution of Non-Small Cell Lung Cancers: What Have We Learned from Repeat Biopsy
- 2018 National Clinical Research Center for Respiratory Diseases, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China:
 - Fungal Infectious Diseases of the Lung: Strategies to Resolve the Diagnostic Issues
- 2019 Chinese American Pathologists Association, The Fifth CAPA Diagnostic Pathology Course, August 19-20, Los Angeles
 - Large Cell Neuroendocrine Carcinoma of the Lung: Morphologic and Molecular Features
- 2019 National Cancer Center, 2019 National Academic Conference on Pathology of Digestive System Diseases & The Fifth CAPA-CICAMS Summit on Tumor Diagnostic Pathology, Beijing, China:
 - Pancreas Cysts: Cytomorphology, Cyst Fluid Analysis and Molecular Testing
- 2019 National Clinical Research Center for Respiratory Diseases, The First Affiliated Hospital of Guangzhou Medical University, Guangzhou, China:
 - Large Cell Neuroendocrine Carcinoma of the Lung: Morphologic and Molecular Features
- 2019 The Tenth Forum of Lung Cancer and Interventional Pulmonology, Wenzhou, China:
 - Lung Small Biopsies: Specimen Acquisition and Diagnostic Workup
- 2020 Chinese American Pathologists Association, The Sixth CAPA Diagnostic Pathology Course, October 10-11, Virtual Presentation
 - Salivary Gland-Type Tumors of the Lung
- 2020 The 21st World Congress of Bronchoscopy and Interventional Pulmonology, Virtual Meeting, November 19-22, 2020
 - Organizer and Host, Pulmonary Pathology Session
 - Rapid On-site Evaluation and Cytopathology for Bronchoscopy-Guided Biopsy
- 2021 National Cancer Center, Forum on Cytopathology/The 7th Cytopathology Diagnostic Course, Virtual Presentation, September 24, 2021
 - Papanicolaou Society of Cytopathology System for Reporting Pancreaticobiliary Cytology: Current Practice and Future Perspectives
- 2021 Shanghai Chest Hospital, Diagnostic Course on Lung Cancer Pathology: Frozen Section Diagnosis and Molecular Testing, Virtual Presentation, October 30, 2021
 - Salivary Gland-type Tumors of the Lung: Diagnostic Challenge and Pitfalls
- 2022 Dakowe College of Continuation Education, June 12, 2022 (virtual presentation)

- Fine Needle Aspiration of Thyroid: Cytomorphology and Molecular Testing
- 2022 Quzhou People's Hospital, Continuation Medical Education Program, Updates on Lung Cancer July 30, 2022 (virtual presentation)
 - Fine Needle Aspiration Cytopathology of Lung Cancer
- 2022 Yale School of Medicine, 2022 Diagnostic Pathology CME Annual Review Course, New York, New York, September 17, 2022
 - Case Presentation: Fine Needle Aspiration Cytopathology of Mixed Acinar and Neuroendocrine Carcinoma of the Pancreas
- 2022 Invited Talk, Symposium for WHO Reporting System for Pancreaticobiliary Cytopathology, The Jointed International Academy of Cytopathology and 70th American Society of Cytopathology Meeting, Baltimore, Maryland, November 16, 2022
 - Endoscopic Ultrasound-Guided Fine Needle Aspiration of Solid-Cystic Pancreatic Head Mass
- The Twentieth Forum of Lung Cancer and Interventional Pulmonology, Virtual Presentation, November 20, 2022
 - Cytological Evaluation of Pleural Effusion Specimens in Patients with Lung Cancer
- 2022 Chinese Association of Medical and Education Cytopathology Section Annual Meeting, Virtual Presentation, December 18, 2022
 - An Introduction to The WHO International System for Reporting Pancreaticobiliary Cytopathology
- 2022 China Cancer Society Tumor Biomarker Committee, Forum on Thyroid Cancer Precision Diagnosis, Virtual Presentation, December 24, 2021
 - Fine Needle Aspiration of the Thyroid: The Bethesda System and Yale Experience
- 2022 Sichuan University Huaxi Hospital, 9th Training Course on Standardization of Tumor Pathological Diagnoses, Virtual Presentation, December 24, 2022
 - Pathologic Diagnosis of Salivary Gland-type Tumors of the Lung
- 2023 Special Seminar, Shanghai Ruijin Hospital, Shanghai, China, February 3, 2023
 - Fine Needle Aspiration of the Thyroid: The Bethesda System and Yale Experience
- 2023 Guangdong Medical Association Pathology Section, Cytopathology Conference, Virtual Presentation, February 26, 2023
 - Diagnostic Approach for Serous Effusion Specimens
- 2023 China-French Forum on Translational Medicine and Precision Diagnosis and Therapeutics, Digital Pathology and Artificial Intelligence Section, Shanghai Ruijin Hospital, Shanghai, China, May 27, 2023
 - Digital Cytopathology: The Challenges and Opportunities
- 2023 Invited Talk, 2023 World Conference on Lung Cancer (WCLC2023), Singapore, September 11, 2023

- Pathologic and Molecular Features of Lung Adenocarcinoma in People Who Smoke and People Who Do Not Smoke
- 2023 Pathology Grand Rounds Presentation, Shanghai Changhai Hospital, Shanghai, China, October 24, 2023
 - Diagnostic Approach to Cystic Lesions of the Pancreas, A Quest for Perfection
- 2023 Pathology Grand Rounds Presentation, Xiangya Hospital, Changsha, China, October 30, 2023
 - Diagnostic Approach to Cystic Lesions of the Pancreas, A Quest for Perfection
- 2023 Special Seminar, The First Hospital of Beijing University, Beijing, China, November 2, 2023
 - WHO Reporting System for Lung Cytopathology
- 2024 Pathology Grand Rounds Presentation and Unknown Case Conference, New York University Langone Medical Center, January 22, 2024
 - Diagnostic Approach to Cystic Lesions of the Pancreas, A Quest for Perfection
- 2024 Special Seminar, University of Naples, Naples, Italy, April 23, 2024
 - Diagnostic Approach to Cystic Lesions of the Pancreas, A Quest for Perfection
- 2024 Invited Talk, 2024 European Congress of Cytology, Leipzig, Germany, June 24, 2024
 - Application of The International System for Reporting Serous Fluid Cytopathology to Cerebrospinal Fluid Samples
- 2024 Invite Talk, Xiangya Forum on Pathology Education and Diagnostic Oncological Pathology, Changsha, Hunan, China, October 13, 2024
 - Small Cell Lung Cancer: Subclassification and Potential Therapeutic Implications
- 2024 Yale-Ruijin Diagnostic Pathology Courses, Shanghai, China, October 27, 2024
 - Practical Approaches to Pelvis Wash Cytopathology
- 2024 Yale-Ruijin Diagnostic Pathology Courses, Shanghai, China, October 27, 2024
 - Strategies for Diagnostic Assessment of Pancreatic Lesions: Fine-Needle Aspiration vs. Fine-Needle Biopsy
- 2025 Invited Talk, The 22nd International Congress of Cytology, Florence, Italy, May 12, 2025
 - Pancreas and Biliary Cytology: Interpretation of Bile Duct Brushing
- 2025 Invited Talk, The 22nd International Congress of Cytology, Florence, Italy, May 13, 2025
 - Intraabdominal Organ Cytomorphology: Mimics of Malignancy II Benign Tumors
- 2025 Special Seminar, Xiangya Hospital, Changsha, China, May 28, 2025
 - Lung Carcinoids: Insights into Diagnostic Perspectives and Clinical Implications
- 2025 Special Seminar, Seoul National University, Seoul, South Korea, July 15, 2025
 - Fine-Needle Aspiration Biopsy of Pancreatic Lesions: WHO Reporting System and Diagnostic Strategy

- 2025 HKIAP-HKSC-Johns Hopkins-Yale Cytopathology Course, Hong Kong, July 19-20, 2025
 - Neuroendocrine Neoplasms of the Lung: Diagnostic Challenges in Cytology Specimens
 - Lung Cytopathology: Interactive Unknown Cases
 - Fine-Needle Aspiration Biopsy of Pancreatic Lesions: WHO Reporting System and Diagnostic Strategy
 - Pancreas Cytopathology: Interactive Unknown Cases

Peer Reviewed Presentations & Symposia Given at Meetings:

- Cai G, Zhen X, Friedman E. Dopamine receptor-mediated activation of MAP kinase is involved in quinpirole-induced rotational behavior in unilateral 6-hydroxydopamine- lesioned rats. Poster presentation at the 12th General Meeting of the European Society for Neurochemistry, St. Petersburg, Russia, 1998.
- 2. Cai G, Wang HY, Bhamre S, Friedman E. Enhanced D1 dopamine receptor/G protein coupling in unilateral 6-hydroxydopamine-lesioned rats. *Poster presentation at the Society for Neuroscience 28th Annual Meeting, Los Angeles, California, 1998.*
- **3.** Zhen X, Wang HY, Uryu K, Cai G, Smith C, Friedman E. Activation of extracellular signal-regulated kinase (ERK) by D4 dopamine receptors requires Src, SHC-Grb2 via Gi protein. *Poster presentation at the Society for Neuroscience 28th Annual Meeting, Los Angeles, California, 1998.*
- **4.** Cai G, Yacoub H, Ma XL, Friedman E. Nitric oxide mediates desensitization of myocardial A1 adenosine receptor. *Poster presentation at the Experimental Biology 2000, San Diego, California, 2000.*
- **5.** Cai G, Huang H, Shapiro E, Zhou H, Yeh S, Melamed J, Lee P, Greco MA. Expression of androgen receptor-associated protein 55 (ARA55) in the developing human fetal prostate. *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2004.*
- **6.** Cai G, Simsir A, Yee H, Chiriboga L, Cangiarella J. Combined use of MIB-1 and p53 immunostains in classification of pulmonary neuroendocrine tumors: an immunohistochemical study on material obtained by fine needle aspiration biopsy (FNAB). Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2004.
- **7.** Cai G, Sidhu GS, Gu X, Herrera GA, Cubukcu-Dimopulo O, Kahn T, Wieczorek R. Plasma cell dyscrasia with kappa light chain crystals in proximal tubular cells: a histological immunofluorescent and ultrastructural study. *Poster presentation at the Ultrapath XII*, *Barcelona, Spain, 2004*.
- **8.** Strauss RA, Gajera DA, Saladino M, Cai G, Zhu C, Afonja O, Moskowitz N, Shah S, Caprio M, Tropper P, Talebian S, Lee M. Management of an allo-anti-Rh17: mother and baby. *Poster presentation at the Association for the Advancement of Blood & Biotherapies Annual Meeting & TXPO, Baltimore, Maryland, 2004.*

- **9.** Cai G, Simsir A, Yee H, Chiriboga L, Kefalides P, Cangiarella J. Differential expression of mucins, MIB-1 and p53 in mucinous tumors of the pancreas. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2005.*
- **10.** Cai G, Witkiewicz A, Velazquea EF. E-cadherin expression in primary melanoma with and without sentinel lymph node metastasis. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2005.*
- **11.** Velazquez EF, Barron LP, Cai G, Ma L, Reyes-Mugica M. Penile lichen sclerosus children: its histology and immunophenotype. *Poster presentation at the Society for Pediatric Pathology Annual Meeting, San Antonio, Texas, 2005.*
- **12.** Cai G, Grzybicki DM, Jensen CS, Zarbo RJ, Carter G, Raab SS. Should negative Pap tests be reviewed in patients with a newly diagnosed endometrial, cervical or vaginal adenocarcinoma? Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Diego, California, 2007.
- **13.** Cai G, Khalbuss WE, Teot LA. Diagnostic values of endobronchial ultrasound-guided fine needle aspiration biopsy (EBUS-FNAB) in assessment of mediastinal lymphadenopathy. *Poster presentation at the International Academy of Pathology Annual Meeting, Athens, Greece, 2008.*
- **14.** Cai G, Monaco SE, Teot LA. Assessment of estrogen receptor (ER), progesterone receptor (PR) and Her2/neu status in fine needle aspirates of metastatic breast carcinomas. *Poster presentation at the International Academy of Pathology Annual Meeting, Athens, Greece, 2008.*
- **15.** Monaco SE, Sherer M, Teot LA, **Cai G**. Fluorescence in-situ hybridization (FISH) studies on direct smears: an approach to enhance the fine needle aspiration biopsy diagnosis of B- cell non-Hodgkin lymphomas. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*
- **16.** LaCaria TM, Teot LA, **Cai G**. Utility of glypican-3, alpha-fetoprotein, and HepPar-1 as a panel for detecting hepatocellular carcinoma in fine needle aspiration biopsies. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*
- **17.** Cai G, Khalbuss WE, Yu J, Parwani AV, Jukic D, Teot LA. Cytological evaluation of image-guided fine needle aspiration biopsies via robotic microscopy: a pilot validation study. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*
- **18.** Perepletchikov A, Dhir R, Parwani AV, Cai G, Bastacky S. Margin assessment of the radical prostatectomy (RP) utilizing a sectioning method that optimizes margin evaluation and permits tissue banking. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*
- **19.** Bastacky S, Perepletchikov A, Parwani AV, Yin M, Cai G, Dhir R. Clinicopathologic features of hematolymphoid neoplasms (HLN) involving the prostate in surgical pathology specimens at the University of Pittsburgh. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*

- **20.** Perepletchikov A, Parwani AV, Dhir R, Cai G, Yin M, Bastacky S. The incidence of lymphoma in pelvic lymph nodes (PLNs) in patients undergoing radical prostatectomy (RP). *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2008.*
- **21.** Cai G, Zynger DL, Marks-Jones D, Parwani AV. On-site cytological evaluation and complementary needle core biopsy enhance fine needle aspiration diagnosis of renal lesions. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2009.*
- **22.** Cai G, Jamidar P, Finkelstein A, Schofield K, Chhieng D. Diagnostic value of combined brush cytology and biopsy for bile duct lesions: A retrospective review of 103 concurrent specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2009.*
- **23.** Domfeh AB, Teot LA, Khalbuss W, Cai G, Monaco SE. Fine needle aspiration biopsy of the omentum is a sensitive method for detecting malignancy: a review of 42 cases and correlation with peritoneal fluid cytology. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Denver, Colorado, 2009.*
- **24.** Marks-Jones D, Teot LA, Khalbuss WE, **Cai G**. Rapid on-site evaluation in the endobronchial ultrasound-guided fine needle aspiration biopsy of mediastinal lymph nodes. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2009.*
- **25.** Bansal M, Cai G, Khalbuss WE. The contribution of fluorescence in-situ hybridization (FISH) studies to the fine-needle aspiration biopsy (FNAB) of soft tissue and bone neoplasms. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2009.*
- **26.** Niemeier LA, Cieply K, Dhir R, Parwani AV, Cumbie K, Sherer C, Salvatore J, Youschak M, Perepletchikov A, Cai G, Kiss L, Bastacky SI. Fluorescence in situ hybridization (FISH) assay for ERG gene disruption in acinar (PCA-A) and ductal (PCA-D) subtypes of prostatic adenocarcinoma. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2009.*
- 27. Zynger DL, LaFramboise WA, Krill-Burger JM, Sciulli CM, Hensler AM, Perepletchikov AM, Kiss LP, Dhir R, Cai G, Parwani AV, Bastacky SI. MicroRNA Expression profiling distinguishes conventional and chromophobe renal cell carcinomas from normal renal parenchyma. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, 2009.
- **28.** Dvorakova M, Dhir R, Bastacky SI, Cai G, Khalbuss WE, Acquafondata MB, Parwani AV. Utility of double immunohistochemical staining for smoothelin/pancytokeratin in the staging of urothelial carcinomas. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2009.*
- **29.** Cai G, Siddiqui U, Aslanian H, Finkelstein A, Schofield K, Chhieng. Molecular analysis of pancreatic cyst Fluid: correlation with cytological diagnosis and surgical follow-up. *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Washington DC, 2010.*

- **30.** Cai G, Puchalski JT, Chhieng D. Diagnosis of mediastinal granulomas by endobronchial ultrasound-guided fine needle aspiration biopsy (EBUS-FNAB). *Poster presentation at the International Academy of Pathology Annual Meeting, Sao Paulo, Brazil, 2010.*
- **31.** Selbst M, Chhieng D, Cai G. DOG1 expression in the fine needle aspirates of gastrointestinal stromal tumors. *Poster presentation at the 17th International Congress of Cytology, Edinburgh, Scotland, 2010.*
- **32.** Nandigam KV, Cai G, Chhieng D, Jamidar PA. Improved detection of malignant biliary strictures with addition of K-ras gene mutation analysis to brushing cytology and biopsies. *Poster presentation at the Digestive Disease Week, Chicago, Illinois, 2010.*
- **33.** Aslanian HR, Chhieng DC, Cai G, Siddiqui UD. EUS guide confocal laser endomicroscopy of the pancreas. *Poster presentation at the Digestive Disease Week, New Orleans, Louisiana, 2010.*
- **34.** Cai G, Siddiqui U, Aslanian H, Finkelstein A, Schofield K, Chhieng. Molecular analysis of pancreatic cyst fluid: correlation with cytologic diagnosis and surgical follow-up. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Washington, DC, 2010.*
- **35.** Tobias L, Cai G, Puchalski J. The complementary role of CD68 immunostaining in diagnosing sarcoidosis by endobronchial ultrasound. *Platform presentation at the American College of Chest Physicians Annual Meeting, Honolulu, Hawaii, 2011.*
- **36.** Cai G, Chhieng D, Levy G, Wong B, Gettinger S, Homer R, Hui P. Identification of epidermal growth factor receptor mutation, K-ras mutation and EML4-ALK translocation in the cytological specimens of primary and metastatic non-small cell lung cancers. *Platform presentation at the American Society of Cytopathology Annual Meeting, Baltimore, Maryland, 2011.*
- **37.** Levy G, Finkelstein A, Cai G. Combined cytomorphologic and immunophenotypic analysis enhances the fine needle aspiration diagnosis of lymphoproliferative disorders involving the thyroid. *Poster presentation at the American Society of Cytopathology Annual Meeting, Baltimore, Maryland, 2011.*
- **38.** Levy G, Finkelstein A, Cai G, Chhieng D, Siddiqui UD, Aslanian HR, and Harigopal M. A rare cytomorphological feature in endocrine neoplasms of the pancreas. *Poster presentation at the American Society of Cytopathology Annual Meeting, Baltimore, Maryland, 2011.*
- **39.** Wu Y, Chhieng D, Bao Y, **Cai G**. Expression of neuroD and CD44 in the fine needle aspirates of pancreatic endocrine neoplasms. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Texas, 2011.*
- **40.** Levy G, Theoharis C, Chhieng D, Materin M, Cai G. Fine needle aspiration biopsy of the eye: a single institution's experience. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2011.*
- **41.** Kamat SN, Monaco SE, Pantanowitz L, Khalbuss W, Cai G, Parwani AV. Utility of Molecular testing in fine needle aspiration and needle core biopsy diagnosis of renal mass lesions. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2011.*

- **42.** Siddiqui UD, Mehra M, Cai G, Chhieng D, Aslanian HR. 25G needle provide superior diagnostic yield of malignancy with rapid onsite evaluation (ROSE) in EUS-guide FNA of pancreatic masses. *Poster presentation at the Digestive Disease Week, Chicago, Illinois, 2011.*
- **43.** Bernstein J, Van Dyke AL, Bao Y, Bao F, Kenney B, Prasad M, Chen G, Robert M, Cai G. Prognostic significance of PAX8, survivin, and Ki-67 expression in pancreatic endocrine neoplasms: a tissue microarray analysis. *Poster presentation at the Annual Meeting of American Society of Clinical Pathology, Boston, Massachusetts*, 2012.
- **44.** Alomari A, Eltoum I, Ustun B, Chhieng D, **Cai G.** Endoscopic ultrasound guided fine needle aspiration (EUS-FNA) diagnosis of secondary tumors involving the pancreas: review of 102 cases. *Poster presentation at the Annual Meeting of American Society of Cytopathology, Las Vegas, Nevada, 2012.*
- **45.** Bernstein J, Alomari A, Ustun B, Bao F, Chhieng D, Cai G. Endoscopic ultrasound- guided fine needle aspiration diagnosis of pancreatic endocrine neoplasms: an institution's experience. *Poster presentation at the American Society of Cytopathology Annual Meeting, Las Vegas, Nevada, 2012.*
- **46.** Karunamurthy A, Cai G, Dacic SE, Khalbuss WE, Pantanowitz L, Monaco SE. Unsatisfactory and suboptimal endobronchial ultrasound-guided fine-needle aspiration (EBUS-FNA) biopsies: follow-up and clinical implications. *Poster presentation at the American Society of Cytopathology Annual Meeting, Las Vegas, Nevada, 2012.*
- **47.** Ustun B, Alomari A, Levy GH, Chhieng D, Aslanian HR, Siddiqui U, **Cai G.** Cytomorphology, cyst fluid analysis and molecular tests in pancreatic cystic Lesions: review of 459 cases. *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2012.*
- **48.** Cai G, Ustun B, Alomari A, Levy GH, Harigopal M, Aslanian HR, Siddiqui U, Chhieng D. Endoscopic ultrasound-guided fine needle aspiration (EUS-FNA) biopsy of solid pancreatic lesions: review of 681 cases. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2012.*
- **49.** Karunamurthy A, Cai G, Dacic S, Khalbuss WE, Pantanowitz L, Monaco SE. Diagnostic utility of endobronchial ultrasound-guided fine-needle aspiration (EBUS-FNA): a review of 593 cases. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2012.*
- **50.** Levy G, Cai G, Orfanidis J, Koizumi J, Hoda RS. Melamed-Wolinska bodies are an additional cytological feature of metastatic urothelial carcinoma. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2012.*
- **51.** Carr R, Van Dyke A, Cai G, Haines K, Adeniran AJ. Clinicopathologic characteristics of renal cell carcinoma in patients 45 years of age and younger. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2012.*
- **52.** Carr R, Cai G, Bao Y, Prasad ML, Tickoo SK, Adeniran AJ. Immunohistochemical profile of renal cell carcinoma in patients younger than 45 years of age: analysis of 87 cases of different tumor subtypes. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, 2012.*

- **53.** Pirazzoli V, Nebhan C, Song X, Walther Z, **Cai G**, Wurtz A, Zhao Z, de Stanchina E, Horn L, Carbone D, Miller V, Gettinger S, Pao W, Politi K. Dependence of Afatinib and Cetuximab resistant lung adenocarcinomas on mTOR signaling. *Poster presentation at the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, Boston Massachusetts*, 2013.
- **54.** Politi K, Wurtz A, Walther Z, **Cai G**, Pirazzoli V, Melnick MA, Reynolds L, Lynch TJ, Chiang A, Goldberg S, Morgensztern D, Herbst R, Gettinger S. Dependence of Afatinib and Cetuximab resistant lung adenocarcinomas on mTOR signaling. *Poster presentation at the 15th World Conference on Lung Cancer, Sydney, Australia, 2013.*
- **55.** Fu L, Theoharis C, Adeniran AJ, Ustun B, Chhieng D, Sosa JA, Roman S, Holt EH, Cai G. Calcitonin immunostain performed on Thin-Prep slide enhances fine needle aspiration diagnosis of medullary thyroid carcinoma. *Poster presentation at the American Society of Cytopathology Annual Meeting, Orlando, Florida, 2013.*
- **56.** Ustun B, Bernstein J, Chen X, Aslanian HA, Chhieng D, **Cai G.** The value of rapid on-site evaluation for endoscopic ultrasound-guided fine needle aspiration diagnosis of cystic and solid pancreatic lesions. *Poster presentation at the American Society of Cytopathology Annual Meeting, Orlando, Florida, 2013.*
- **57.** Politi K, Wurtz A, Walther Z, Cai G, Pirazzoli V, Melnick MA, Reynolds L, Boyer J, Chiang A, Morgensztern D, Goldberg S, Herbst R, Lynch T, Gettinger SN. Analysis of HER2 amplification in non-small cell lung cancers (NSCLCs) with acquired resistance (AR) to epidermal growth factor receptor (EGFR) tyrosine kinase inhibitors (TKIs). *Journal of Thoracic Oncology 2013*; 8: S354-S355.
- **58.** Ustun B, Adeniran A, Cai G, Roman S, Sosa JA, Holt E, Chhieng D, Theoharis C. Predictive value of pre-operative thyroid FNA BRAF mutation testing for risk of lymph node thyroid carcinoma metastases: a single institution experience of 498 cases. *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2013.*
- **59.** Chen X, Ustun B, Bernstein J, Aslanian H, Chhieng D, **Cai G.** Fine needle aspiration diagnosis of mucinous cystic neoplasms and intraductal papillary mucinous neoplasms of the pancreas: cytomorphology, CEA Level and K-ras mutation status. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2013.*
- **60.** Chen X, Bao Y, Wong R, Politi K, Jiao L, Gettinger S, Homer R, Chhieng D, Cai G. The role of p40 immunostain in the cytological differential diagnosis of squamous cell carcinoma and adenocarcinoma of the lung. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2013.*
- **61.** Theoharis C, Wachtel M, Baloch Z, Bui M, Eltoum I, Lin O, Simsir A, Stelow E, Adeniran A, Cai G, Harigopal M, Levi A, Ustun B, McKenzie M, Kowalski D, Chhieng D. Interobserver agreement in interpreting thyroid FNA with a diagnosis of atypia/follicular lesion of undetermined significance (FLUS/AUS). *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2013.*
- **62.** Cai G, Gettinger SN, Walther Z, Wurtz A, Prirazzoli V, Bao Y, Homer RJ, Politi K. Histologic evolution of lung adenocarcinomas with acquired resistance to epidermal growth factor

- receptor (EGFR) inhibitors. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Diego, California, 2014.
- **63.** Sun X, Bernstein J, Hui P, Aslanian AR, Chhieng D, Cai G. KRAS mutation analysis in the cytological specimens of cystic and solid pancreatic lesions and its correlation with surgical follow-up. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Diego, California, 2014.*
- **64.** Munday WR, Carr R, Cai G, Guo X, Buza N, X Sun, Harigopal M. Utility of PAX8 and WT-1 in the differential diagnosis of metastatic mullerian carcinomas in effusion specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Diego, California, 2014.*
- **65.** Ross J, Chhieng D, Aslanian HR, Cai G. Endoscopic ultrasound-guided fine needle aspiration diagnosis of ampullary masses. *Poster presentation at the American Society of Cytopathology Annual Meeting, Dallas, Texas, 2014.*
- **66.** Cai G, Bernstein J, Aslanian HR, Hui P, Chhieng D. Endoscopic ultrasound-guided fine-needle aspiration biopsy of autoimmune pancreatitis: diagnostic clues and pitfalls. *Poster presentation at the American Society of Cytopathology Annual Meeting, Chicago, Illinois, 2015.*
- **67.** Politi K, Zhao S, Wurtz A, Bi M, Walther Z, **Cai G**, Boggon T, Goldberg S, Chiang A, Lynch T, Herbst R, Schlessinger J, Richard Lifton R, Gettinger S. The genomic landscape of tyrosine kinase inhibitor naïve and resistant EGFR mutant lung adenocarcinomas. *Poster presentation at the CSHL the biopsy of Cancer Meeting, Cold Spring Harbor, New York, 2015.*
- **68.** Hastings K, Choi J, Wurtz A, Walther Z, Cai G, Oliva I, Zhao Z, Gaffney S, Iamarino A, Zhao S, Bi M, Goldberg S, Chiang A, Liu Z, Townsend J, Schlessinger J, Lifton R, Herbst R, Gettinger S, Politi K. Mutational landscape of TKI naïve and resistant EGFR mutant lung adenocarcinomas. *Poster presentation at the 17th World Conference on Lung Cancer, Vienna, Austria, 2016.*
- **69.** Choi J, Sowell R, Truini A, Schalper KA, Wurtz A, Cai G, Perry C, Datar I, Hastings K, Melnick MA, Kaftan E, Kavathas P, Kaech S, Rimm D, Goldberg SB, Chiang A, Lifton R, Chen L, Herbst RS, Politi K, Gettinger SN. Acquired resistance (AR) to programmed death-1 axis inhibitors in non-small cell lung cancer (NSCLC). *Poster presentation at the 17th World Conference on Lung Cancer, Vienna, Austria, 2016.*
- **70.** Abi Raad R, Walther Z, Gettinger S, Politi K, Puchalski J, Homer R, Cai G. Tumor genotyping analysis using cytological specimens of primary and metastatic lung adenocarcinomas. *Poster presentation at the American Society of Cytopathology Annual Meeting, New Orleans, Louisiana, 2016.*
- 71. Abi-Raad R, Boto A, Lavik JP, Fernandez S, Cai G, Adeniran A, Baldassarri R, Kowalski D, Harigopal M. GATA 3 is a reliable marker in the detection of metastatic breast cancers in cytology specimens from both ER-positive and ER-negative breast cancers. *Poster presentation at the American Society of Cytopathology Annual Meeting, New Orleans, Louisiana, 2016.*
- **72.** Abi Raad R, Barbieri AL, Zhang X, Harigopal M, Baldassarri R, Levi AW, Fernandez S, Kowalski D, Adeniran A, Cai G. Can the Ki-67 index evaluated on fine needle aspiration

- cellblock material reliably grade pancreatic neuroendocrine Tumors? *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Seattle, Washington, 2016.*
- **73.** Baldassarri R, Fernandez S, Levi AW, Harigopal M, Kowalski D, **Cai G**, Schofield K, Adeniran A. Suspicious AFIRMA® gene expression classifier test result in thyroid fine needle aspiration cytology: implications for patient management. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Seattle, Washington, 2016.*
- **74.** Delgado S, Cai G. P40 is superior to p63 and CK5/6 for differentiating lung squamous cell carcinoma from adenocarcinoma in cytological specimens. *Poster presentation at the American Society of Cytopathology Annual Meeting, Tucson, Arizona, 2017.*
- **75.** Cai G, Abi Raad R, Adeniran A. Expression of NKX3.1, prostatic specific antigen and androgen receptor in cytological specimens submitted for metastatic prostatic carcinoma workup. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- **76.** Beech C, Rimm DL, Neumeister V, Cai G. Assessment of PD-L1 status by immunohistochemistry in cytological specimens of non-small cell lung cancers: correlation with the results of concurrent surgical specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- 77. Abi Raad R, Fernandez S, Schofield K, Cai G, Adeniran A. Follow-up of nondiagnostic thyroid fine needle aspiration: an institutional review. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- **78.** Abi Raad R, Fernandez S, Hui P, Schofield K, Prasad ML, Cai G, Adeniran A. Prognostic assessment of BRAF mutational testing in preoperative thyroid FNA specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- **79.** Baine MK, Sinard JH, Cai G, Homer RJ. A semi-quantitative approach to biopsy diagnosis of large cell neuroendocrine carcinoma of the lung. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- **80.** Celli R, Cai G, Salem R, Tang L, Jain D. Pancreatic neuroendocrine tumors expressing proinsulin: a clinicopathologic analysis. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas, 2017.*
- **81.** Zuo T, Lin Q, Duch K, Schofield K, Abi-Raad, R, Harigopal M, Kowalski D, Cai G. Cytology-histology correlation and high-risk HPV genotyping of 568 cases with diagnosis of atypical glandular cells on Pap testing. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2018.*
- **82.** Chen P, Cai G. Expression of GATA3 in primary lung carcinomas: correlation with histopathologic features and TTF-1/p40 expression. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2018.*
- **83.** Chandler J, Xu M, Hui P, Cai G. Diagnosis of lymphoproliferative disorders on CSF specimens the utility of gene rearrangement studies in conjunction with cytologic evaluation. *Poster*

- presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2018.
- **84.** Zuo T, Cai G, Adeniran A, Kowalski D, Hui P. KRAS mutation testing in pancreaticobiliary cytology specimens: analysis of 619 cases from an academic institution. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada, 2018.*
- **85.** Dolezal, D., Zuo, T., Adeniran, A., Abi Raad, R., Cai, G. Fine needle aspiration diagnosis of malignant neoplasms secondarily involving the thyroid: an institutional experience. *Poster presentation at the American Society of Cytopathology Annual Meeting, Washington DC, 2018.*
- **86.** Abi-Raad R, Prasad M, Cai G. Reliability of p16 in cytology specimens from head and neck squamous cell carcinoma. *Poster presentation at the American Society of Cytopathology Annual Meeting, Washington DC, 2018.*
- **87.** Abi-Raad R, Schofield K, Cai G, Adeniran A. Comparison of different molecular testing platforms in thyroid fine needle aspiration cytology. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **88.** Baldassarri R, Baine M, Cai G. Mutational landscape of high-grade neuroendocrine carcinomas of the lung. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **89.** Darbinyan A, Prasad M, Cai G, Adeniran A. DICER1 mutation in follicular neoplasm of the thyroid. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **90.** Abi-Raad R, Cai G, Barlow D, Adeniran A, Prasad M. Can human papillomavirus (HPV) in cytology material be a substitute marker for p16 expression in oropharyngeal squamous cell carcinoma? *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **91.** Yoon E, Abi-Raad R, Aslanian H, Adeniran A, Cai G. An indeterminate diagnosis in endoscopic ultrasound-guided fine needle aspiration of pancreatic lesions: the roles of repeat biopsy and K-Ras mutation analysis. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **92.** Kasab H, Charifa A, **Cai G**, Abi-Raad R, Hammers L, Prasad M, Adeniran A. Correlation between the TIRADS ultrasound criteria and the Bethesda cytology criteria in malignant risk stratification in thyroid nodules. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **93.** Olave MC, Yoon E, Robert M, Adeniran A, Cai G. Utility of SMAD4 and p53 immunocytochemistry in endoscopic ultrasound-guided fine needle aspiration diagnosis of pancreatic ductal adenocarcinomas. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland, 2019.*
- **94.** Dolezal D, Aslanian HR, Cai. G. Fine Needle Aspiration Biopsy of Adrenal Gland Lesions: The roles of imaging guidance, rapid onsite evaluation, and ancillary testing. *Poster presentation at the American Society of Cytopathology Annual Meeting, Salt Lake City, Utah, 2019.*

- **95.** Abi-Raad R, Prasad M, Adeniran A, Cai G. Fine needle aspiration cytomorphology of papillary thyroid carcinomas with NTRK gene rearrangement. *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2020.*
- **96.** Gilani S, Kumar D, Abi-Raad R, Cai G, Adeniran A. Molecular alterations in Hurthle cell neoplasm: a fine needle aspiration study. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2020.*
- 97. Abi-Raad R, Barlow D, Duch K, Levi A, Harigopal M, Cai G. High-risk HPV testing, genotyping and histopathologic follow-up in women with atypical squamous cells- cannot exclude high-grade squamous intraepithelial lesion on Pap testing. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2020.*
- **98.** Vosoughi A, Adeniran A, Cai G, Abi-Raad R. Anal cytology and high-risk HPV testing: a retrospective study with histologic follow-up. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2020.*
- 99. Wang M, Kumar D, Abi-Raad R, Adeniran A, Cai G. Expression of insulinoma- associated 1 (INSM1) in non-small cell lung cancers: a diagnostic pitfall for neuroendocrine tumors.

 Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2020.
- **100.** Ahmed M, Gilani S, Muniraj T, Aslanian HR, **Cai G.** Combined Endoscopic Ultrasound-Guided Fine Needle Aspiration and Fine Needle Biopsy for Diagnosis of Upper Gastrointestinal Submucosal Lesions. *Poster presentation at the American Society of Cytopathology Annual Meeting, Virtual, 2020.*
- **101.** Gilani SM, Cai G, Prasad ML, Adeniran AJ. RAS Mutation and associated risk of thyroid malignancy: a fine needle aspiration study with cytology-histology correlation. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Virtual*, 2021.
- **102.** Bouza S, Hernandez P, Wang P, Razzano D, Walther Z, Cai G. Comprehensive molecular profiling of pancreatic adenocarcinoma in fine needle aspiration and core needle biopsy specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Virtual, 2021.*
- **103.** Abi-Raad R, Prasad M, Adeniran A,10 Cai G. Are copy number variations identified in thyroid fine needle aspiration specimens associated with Hurthle cell morphology? *Platform presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2022.*
- **104.** Manrai P, Wang M, Levi A, Abi-Raad R, Perincheri S, Adeniran A, **Cai G.** Whole slide image-based analysis of SurePath Pap testing: an initial institutional experience. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2022.*
- **105.** McHenry A, Azar M, Levi A, Cai G, Abi-Raad R. Risk of anal intraepithelial neoplasia in high-risk populations according to human papillomavirus genotypes. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California*, 2022.

- **106.** Meiklejohn K, Wang M, Hrones M, Abi-Raad R, Cai G, Adeniran A, Prasad M, Gilani S. Utility of NOR-1 immunohistochemistry in fine needle aspiration cytology diagnosis of acinic cell carcinoma. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2022.*
- **107.** Wang X, Abi-Raad R, Tang H, Cai G. Ki-67 index evaluated on the fine-needle aspiration specimens of gastrointestinal stromal tumor: the potential predictive value for histologic grade. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California, 2022.*
- **108.** Sardana R, Wang M, Gilani S, Sun T, **Cai G.** Fine-needle aspiration evaluation of pancreatic cysts: an institutional experience using the upcoming WHO International System for Reporting Pancreaticobiliary Cytopathology. *Poster presentation at the Jointed International Academy of Cytology/American Society of Cytopathology Meeting, Baltimore, Maryland, November*, 2022.
- **109.** Sardana R, Abi-Raad R, Adeniran A, Cai G. The value of parathyroid hormone immunostaining in fine-needle aspiration diagnosis of parathyroid tissue. *Poster presentation at the Jointed International Academy of Cytology/American Society of Cytopathology Meeting, Baltimore, Maryland, November, 2022.*
- **110.** Khajir G, Sun T, Wang H, Adeniran A, Cai G, Levi A. Cytological evaluation of upper urinary tract specimens: an institutional retrospective study using The Paris System for Reporting Urine Cytology Second Edition with histopathologic follow up. *Poster presentation at the Jointed International Academy of Cytology/American Society of Cytopathology Meeting, Baltimore, Maryland, November, 2022.*
- 111. Manrai P, Levi A, Sun T, Wang M, Cai G, Abi-Raad R. Cervical cancer screening using primary high-risk HPV (hrHPV) versus cotesting: implications for hrHPV- negative patients with high grade squamous epithelial lesion. *Poster presentation at the Jointed International Academy of Cytology/American Society of Cytopathology Meeting, Baltimore, Maryland, November*, 2022.
- 112. Dolezal D, Ahmed M, Abi-Raad R, Chande S, Estape AA, Vilarinoa N, Goldberg S, Chiang V, Cai G, Nguyen D. Desmoplasia, Decreased Lymphocyte Infiltration, and Absence of EGFR Mutations in Brain Metastases from Patients with Lung Adenocarcinoma are Associated with Worse Overall Survival. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.*
- 113. Ahmed M, Dolezal D, Krishnamurti U, Levi AW, Cai G, Abi-Raad R. Histologic Follow Up Results in Women with Atypical Squamous Cells Cannot Exclude High Grade Squamous Intraepithelial Lesion: A Comparison between SurePath and ThinPrep Liquid-Based Preparations. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.
- 114. Zhou S, Sun T, Minerowicz C, Cai G, Zhong M. Histopathologic and Molecular Features of Lung Non-neuroendocrine Carcinomas with Co-inactivation Mutations of TP53 and RB1 Genes. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.

- 115. Wang X, Cai G. Endoscopic Ultrasound-Guided Fine Needle Aspiration Diagnosis of Serous Cystadenoma: How Confident Are We to Call It? *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.*
- **116.** Hidalgo Cedeno EF, Wang M, Saberi S, Prasad ML, Cai G, Adeniran AJ, Gilani SM. Cytomorphologic Features of Salivary Duct Carcinoma from Primary and Metastatic Sites. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.*
- 117. Wang M, Hidalgo Cedeno EF, Prasad ML, Cai G, Adeniran AJ, Gilani SM. TRPS1 Expression in Cytology Specimens of Salivary Duct Carcinoma. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana, 2023.*
- 118. Padmini M, Levi A, Sun T, Wang M, Cai G, Abi-Raad R. Implications of primary high-risk Human Papillomavirus (hrHPV) Cervical Cancer Screening for hrHPV-negative patients with cervical dysplasia. *Platform presentation at the American Society for Colposcopy and Cervical Pathology (ASCCP) 2023 Annual Scientific Meeting. Houston, Texas, 2023.*
- 119. Matera R, Chiang A, Augert A, Homer RJ, Dacic S, Rimm DL, Cai G. Characterization of Limited-Stage Small Cell Lung Cancer: Molecular Subtypes, Tumor Microenvironment and Clinical Follow-up. Poster Presentation at the 2023 World Conference on Lung Cancer (WCLC2023). Singapore, September 2023.
- 120. Chowdhury S, Yugawa D, Tseng R, Mejia M; Lacy J, Patel T, Escobar-Hoyos L, Shroyer K, Cai G, Robert M, Cecchini M, Kunstman J, Farrell J, Johung K. Keratin 17-signature for stratification of chemotherapy in pancreatic adenocarcinoma. AACR Special Conference in Cancer Research: Pancreatic Cancer. Boston, Massachusetts, September, 2023.
- 121. Sardana R, Burke O, Gilani S, Stendahl K, Muniraj T, Aslanian H, Cai G. Intraductal Oncocytic Papillary Neoplasm and Intraductal Tubulopapillary Neoplasm: Cytomorphology and Ancillary Testing of Uncommon High-Grade Pancreatic Neoplasms. *Poster presentation at American Society of Cytopathology Meeting, Austin, Texas, November, 2023.*
- **122.** Burke O, Sardana R, Wang M, Stendahl K, Adeniran A, Cai G. Fine-Needle Aspiration Differential Diagnosis of Pancreatic Solid Pseudopapillary Neoplasm and Pancreatic Neuroendocrine Tumor: An Immunocytochemical Study. *Poster presentation at American Society of Cytopathology Meeting, Austin, Texas, November, 2023.*
- 123. Wadia RJ, Wang J, Cai G, Levi AW, Schofield K, Weirsman S, Hui P, Adeniran AJ. Performance of A Modified Thyroid Genomic Classifier: A Single Institution Experience. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2024.
- **124.** Antony VM, Dolezal D, Wang M, Cai G. Molecular Profiling of Mucinous Adenocarcinomas: An Addition to the Diagnostic Armamentarium for Identification of Primary Site. *Platform and Poster presentations at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2024.*
- **125.** Yu S, Cai G. Glucose Level Assessment in Pancreatic Cyst Fluid: Correlation with Cytological Diagnosis, CEA Level and KRAS Mutation Status. *Poster presentation at the*

- Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2024.
- **126.** Gereg C, **Cai G.** Atypical Cytologic Diagnostic Category in Endoscopic Ultrasound-Guided Fine Needle Aspiration of Solid Pancreatic Lesions: Associated Risk of Malignancy and Values of Repeat Biopsy and KRAS Mutation Analysis. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland, 2024.*
- **127.** Gereg C, AlMana F, Cai G. Endoscopic Ultrasound-Guided Fine-Needle Aspiration of Non-Hodgkin Lymphomas Involving the Pancreas: A 10-Year Institutional Experience. *The 2024 College of American Pathologists Annual Meeting, Las Vegas, Nevada, October 19–22, 2024.*
- **128.** Carrasco-Tenezaca F, Wadia R, **Cai G.** Assessing the Change in Gleason Score (GS) and Surface Area Involvement by Prostate Adenocarcinoma (PCa) in Transurethral Resection of the Prostate (TURP) Between Initial and Complete Submission. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2025.*
- **129.** Haque M, Kaur H, Wang M, Cai G. Comparative Assessment of Claudin-4, MOC-31, and BerEP4 Immunomarkers in Diagnostic Workup of Metastatic Carcinoma in Serous Fluid Specimens. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2025.*
- **130.** Gereg C, Cai G. Utility of SATB2 Immunocytochemistry in the Diagnostic Workup of Cytological Specimens from Patients with Suspected Osteosarcoma. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts*, 2025.
- 131. Bernhisel A, Sun T, Prasad M, Ladenheim A, Cai G, Adeniran A. Clinicopathologic Characteristics of Thyroid Nodules with THADA-IGF2BP3 Fusion Identified on Fine Needle Aspiration. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2025.
- **132.** Kaur H, Gereg C, Abi-Raad R, Adeniran A, **Cai G.** Follicular Neoplasms: Cytomorphological Subclassification, Molecular Alterations and Risk of Malignancy. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts*, 2025.
- 133. Wang M, Abi-Raad R, Krishnamurti U, Cai G, Adeniran A, Sun T. Prognostic Value of Pelvic Washing Cytology in Early-Stage Endometrial Cancer: A 10-Year Single-Institute Cohort Study. Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2025.
- **134.** Yu S, Wang M, Langdon J, Sinard J, Cai G, Prasad M, Adeniran A. Correlation of ACR-TI-RADS, Cytology, Histology, and Molecular studies. *Poster presentation at the Unites States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts, 2025.*
- 135. Kaur H, Wang M, Wang Xi, Zhang X, Cai G. Expression of Claudin 18.2 in Cytologic and Histologic Specimens of Gastric Adenocarcinoma. *ePoster presentation at the 22nd International Congress of Cytology, Florence, Italy, 2025.*

136. Sardana R, Dolezal D, Abi-Raad R, Adeniran A, Cai G. Squamous Cells in Thyroid Fine-Needle Aspiration Samples: Differential Diagnosis and Pitfalls. *ePoster presentation at the 22nd International Congress of Cytology, Florence, Italy, 2025.*

PROFESSIONAL SERVICE

Journal Administrative Service:

2015-present	Editorial Board Member, Cancer Cytopathology
2017-2022	Editorial Board Member, Journal of Clinical & Experimental Pathology
2020-2022	Associate Editor, Exploratory Research and Hypothesis in Medicine
2021-present	Editor-in-Chief, Journal of Clinical and Translational Pathology
2023-present	Editorial Board Member, Cytopathology

Ad Hoc Journal Reviewer:

Cancer Cytopathology, Diagnostic Cytopathology, Acta Cytologica, CytoJournal, Journal of American Society of Cytopathology, Modern Pathology, Human Pathology, Archives of Pathology & Laboratory Medicine, Journal of Clinical Pathology, Journal of Clinical and Translational Pathology, Journal of Clinical & Experimental Pathology, Pathology Research and Practice, ASCP Case Reports

Journal of Thoracic Oncology, Chest, European Respiratory Journal, Lung Cancer, Journal of Thoracic Disease, Journal of Translational Medicine, Journal of the Pancreas, World Journal of Surgical Oncology, BMJ Case Reports

European Journal of Clinical Microbiology & Infectious Diseases, Cancer Biology & Therapy, PLOS One, Oncotarget

Professional Service for Professional Organizations:

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2002-present	Member, United States and Canada Academy of Pathology
2005-present	Member, Chinese American Pathologist Association
2006-present	Fellow, College of American Pathologists
2009-present	Member, American Society of Cytopathology
2009-2020	Member, Papanicolaou Society of Cytopathology
2012-2016	Fellow, American Society of Clinical Pathology
2014-present	Member, International Association for the Study of Lung Cancer
2017-2020	Member, International Society of Urological Pathology
2017-present	Member, Pulmonary Pathology Society
2020-2022	Member, Digital Pathology Association

Committee Members and Services:

2009-2017	Member, Education and Training Task Force, Papanicolaou Society of Cytopathology
2017-2019	Member, Newsletter and Publication Committee, Papanicolaou Society of Cytopathology
2015-2020	Member, Membership Committee, American Society of Cytopathology
2015-2017	Chair, Nominations and Awards Committee, Chinese American Pathologist Association
2017-2018	Chair, Membership Committee, Chinese American Pathologist Association
2020-2021	Member, Research Committee, Chinese American Pathologist Association
2019-present	Member, Membership Committee, International Association for the Study of Lung Cancer
2020-2022	Member, Education Committee, Digital Pathology Association
2020-2022	Member, Progressive Evaluation of Competency Committee, American Society of Cytopathology
2023-2025	Vice Chair, Progressive Evaluation of Competency Committee, American Society of Cytopathology
2024-present	Member, Scientific Committee, Papanicolaou Society of Cytopathology

University Service:

2003-2005	Member, House Staff Council, New York University Medical Center
2004-2005	Member, Resident Advisory Committee, Department of Pathology, New York University School of Medicine
2008-2009	Member, Resident Advisory Committee, Department of Pathology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania
2014-2018	Member, Institutional Review Board, Committee II, Yale University
2017-2020	Member, Pathology Quality Improvement and Peer Review Committee, Yale-New Haven Hospital
2018-2024	Member, Institutional Review Board, Committee 3B/D, Yale University
2019-2024	Member, Institutional Review Board, Committee D-Repository, Yale University
2021-present	Member, Pathology Awards Committee, Yale School of Medicine

BIBLIOGRAPHY

Peer-Reviewed Original Research:

- 1. Yu H, Gong Y, Cai G. Simultaneous observation on nailfold microcirculation and pulmonary artery pressure in patients with cor pulmonale. *Journal of Wenzhou Medical College* 1989; 19:10-13.
- 2. Yu H, Xu Z, Liu S, Cai G, Gong Y. Clinical evaluation of using postexercise right ventricular systolic time interval to diagnose cor pulmonale. *Zhejiang Journal of Medicine* 1989; 11:2-5.
- 3. **Cai G**, Liu F, Jiang Z, Cai K, Xu Z. An evaluation of cardiac contractility with the postextrasystolic potentiation. *Journal of Wenzhou Medical College* 1990; 20:193-197.
- 4. Liu F, Lan Y, Cheng S, **Cai G**. Assessment of left diastolic function by the postextrasystolic atrial wave change of the differential impedance cardiogram. *Journal of Wenzhou Medical College* 1990; 20:129-133.
- 5. Liu F, Lan Y, Cai G, Cheng S. Assessment of induced-noninvasively postextrasystolic potentiation on right ventricular function in patients with Cor Pulmonale. *Chinese Journal of Tuberculosis and Respiratory Disease* 1991; 14:280-282.
- 6. Liu F, Lan Y, Cai G, Cheng S. Clinical study on the method of measuring cardiac function curve. *Chinese Journal of Cardiology* 1991; 19:243-245.
- 7. **Cai G**, Liu F, Jiang Z, Cai K, Xu Z. Detection of postextrasystolic potentiation with differential impedance cardiogram. *Journal of Wenzhou Medical College* 1991; 21:200-204.
- 8. Lan Y, Liu F, Cheng S, **Cai G**, Bao M. Clinical study of postextrasystolic potentiation in patients with myocardiopathy and myocarditis. *Journal of Wenzhou Medical College* 1991; 21:195-199.
- 9. Cai G, Bao Y, Cai K, Jiang Z, Yu H. Change and significance of pulmonary hemodynamics before and after exercise in patients with Cor Pulmonale. *Journal of Wenzhou Medical College* 1991; 21:65-68.
- 10. Cai G, Bao Y, Xu Z, Jiang Z, Chen M. Effect of chronic normobaric anoxia and hypercapnia on the density of pulmonary beta-adrenoceptors in rats. *Journal of Wenzhou Medical College* 1993; 23:6-9.
- 11. Bao Y, Cai G. Observation on nailfold microcirculation in patients with alopecia. *Zhejinag Journal of Medicine* 1993; 15:42-44.
- 12. **Cai G**, Gurdal H, Seasholtz TM, Johnson MD. Age-related changes in angiotensin II-stimulated vascular contraction and inositol phosphate accumulation in F344 rats. *Mechanism of Ageing & Development* 1994; 76:125-133.
- 13. Johnson MD, Gurdal H, Cai G, Snyder DL, Roberts J. Prenatal cocaine exposure affects the development of aortic adrenergic innervation and contractile responses. *Life Science* 1994; 55:1327-1335.
- 14. Gurdal H, Cai G, Johnson MD. Alpha-1 adrenoceptor responsiveness in the aging aorta. *European Journal of Pharmacology* 1995; 274:117-123.
- 15. Stuliff RL, Cai G, Gurdal H, Snyder DL, Roberts J, Johnson MD. Cardiovascular hypertrophy and increased vascular response following repeated cocaine administration in rabbits. *Life Science* 1996; 58:675-682.

- 16. Cai G, Wang HY, Gao E, Horwitz J, Snyder DL, Pelleg A, Roberts J, Friedman E. Reduced adenosine A₁ receptor-G□s protein coupling in ventricular myocardium during aging. *Circulation Research* 1997; 81:1065-1071.
- 17. Seasholtz TM, Gurdal H, Wang HY, Cai G, Johnson MD, Friedman E. Heterologous desensitization of the rat-tail artery contraction and inositol phosphate accumulation following in vitro exposure to phenylnephrine is mediated by decreased levels of $G \square q$ and $G \square i$. *Journal of Pharmacology and Experimental Therapeutics* 1997; 283:925-931.
- 18. Friedman E, Jin LQ, Cai G, Hollon TR, Drago J, Sibley DR, Wang HY. D1-like dopaminergic activation of phosphoinositide hydrolysis is independent of D1A dopamine receptors: evidence from D1A knockout mice. *Molecular Pharmacology* 1997; 51(1):6-11.
- 19. Jin LQ, Cai G, Wang HY, Smith C, Friedman E. Characterization of the phosphoinositide-linked dopamine receptor in a mouse hippocampal-neuroblastoma hybrid cell line. *Journal of Neurochemistry* 1998; 71:1935-1943.
- 20. Gao E, Snyder DL, Roberts J, Friedman E, Cai G, Pelleg A, Horwitz J. Age-related decline in adenosine A₁ receptor function in the heart is attenuated by dietary restriction. *Journal of Pharmacology and Experimental Therapeutics* 1998; 285:186-192.
- 21. Tilakaratne N, Cai G, Friedman E. Cocaine-induced activation of c-fos gene expression is attenuated in prenatal cocaine-exposed rabbits. *Annals of New York Academy of Science* 1998; 846:368-370.
- 22. Zhen X, Uryu K, Cai G, Johnson GP, and Friedman E. Age-associated impairment in brain MAPK signal pathways and the effect of caloric restriction in Fischer 344 rats. *Journal of Gerontology* 1999; 54A:B539-B548.
- 23. Cai G, Gurdal H, Wang HY, Smith C, Friedman E. Inverse agonist properties of dopaminergic antagonists at the D_{1A} dopamine receptor: uncoupling of the D_{1A} dopamine receptor from its associated Gs protein. *Molecular Pharmacology* 1999; 56:989-996.
- 24. Gao F, Christopher TA, Lopez BL, Friedman E, Cai G, Ma XL. Mechanism of decreased adenosine protection in reperfusion injury of aging rats. *American Journal of Physiology Heart & Circulatory Physiology* 2000; 279:H329-H338.
- 25. Cai G, Zhen X, Uryu K, Friedman E. D₂ dopamine receptor-mediated activation of extracellular signal-regulated protein kinase is required for sensitized locomotive response in 6-hydroxydopamine-lesioned rats. *Journal of Neuroscience* 2000; 20:1849-1857.
- 26. Tilakaratne N, Cai G, Friedman E. Attenuation of cocaine-induced genomic and functional responses in prenatal cocaine-exposed rabbits. *Pharmacology, Biochemistry and Behavior* 2001; 69:225-232.
- 27. Seasholtz TM, Cai G, Wang HY, Friedman E. Effects of ischemia-reperfusion on vascular contractility and □₁ adrenergic receptor signaling in the rat tail artery. *Journal of Applied Physiology* 2001; 91:1004-1010.
- 28. Zhen X, Torres C, Cai G, Friedman E. Inhibition of protein tyrosine/mitogen-activated protein kinase phosphatase activity is associated with D2 dopamine receptor supersensitivity in a rat model of Parkinson's disease. *Molecular Pharmacology* 2002; 62(6):1356-1363.

- 29. Cai G, Wang HY, Friedman E. Increased dopamine receptor signaling and dopamine receptor-G protein coupling in denervated striatum. *Journal of Pharmacology and Experimental Therapeutics* 2002; 302(3):1105-1112.
- 30. Jin LQ, Goswami S, Cai G, Zhen X, Friedman E. SKF83959 selectively regulates phosphatidylinositol-linked D1 dopamine receptors in rat brain. *Journal of Neurochemistry* 2003; 85:378-386.
- 31. Cai G, Huang H, Shapiro E, Zhou H, Yeh S, Melamed J, Greco MA, Lee P. Expression of androgen receptor-associated protein 55 (ARA55) in the developing human fetal prostate. *Journal of Urology* 2005; 173:2190-2193.
- 32. Velazquez EF, Soskin A, Bock A, Codas R, Cai G, Barreto JE, Cubilla AL. Epithelial abnormalities and precancerous lesions of anterior urethra in patients with penile carcinoma: a report of 89 cases. *Modern Pathology* 2005; 18:917-923.
- 33. Ramdall RB, Cai G, Alasio TM, Levine P. Fine-needle aspiration biopsy for the primary diagnosis of lymphoproliferative disorders involving the spleen: One institution's experience and review of the literature. *Diagnostic Cytopathology* 2006; 34:812-817.
- 34. Ramdall RB, Alasio TM, Cai G, Yang GC. Primary vascular neoplasms unique to the spleen: Littoral cell angioma and splenic hamartoma diagnosis by fine-needle aspiration biopsy. *Diagnostic Cytopathology* 2007; 35:137-142.
- 35. Cai G, Levine P, Sen F. Diagnosis of myeloid sarcoma involving salivary glands by fine-needle aspiration cytology and flow cytometry: Report of four cases. *Diagnostic Cytopathology* 2008; 36(2):124-127.
- 36. Cai G, Ramdall RB, Levine P, Yang GC. Fine-needle aspiration of metastatic prostatic neuroendocrine carcinomas: cytomorphologic and immunophenotypic features. *Diagnostic Cytopathology* 2008; 36:545-549.
- 37. Ramdall RB, Wallach RC, Cangiarella J, Cai G, Elgert P, Simsir A, Levine P. Origin, frequency and clinical significance of glandular cells in liquid-based pap tests from patients posthysterectomy. *Acta Cytologica* 2009; 53(1):1-9.
- 38. Monaco SE, Teot LA, Felgar RE, Surti U, **Cai G.** Fluorescence in situ hybridization studies on direct smears: an approach to enhance the fine-needle aspiration biopsy diagnosis of B-cell non-Hodgkin lymphomas. *Cancer Cytopathology* 2009; 117(5):338-348.
- 39. **Cai G,** Teot LA, Khalbuss WE, Yu J, Monaco SE, Jukic DM, Parwani AV. Cytologic evaluation of image-guided fine needle aspiration biopsies via robotic microscopy: A validation study. *Journal of Pathology Informatics* 2010,1:4.
- 40. Yu K, Shi YF, Yang KY, Zhuang Y, Zhu RH, Xu X, **Cai G.** Decreased topoisomerase II□ expression and altered histone and regulatory factors of topoisomerase II□ promoter in patients with chronic benzene poisoning. *Toxicology Letters* 2011; 203:111-117.
- 41. Monaco SE, Khalbuss WE, Ustinova E, Liang A, Cai G. The cytomorphologic spectrum of salivary gland type tumors in the lung and mediastinum: a report of 16 cases. *Diagnostic Cytopathology* 2012; 40:1062-1070.

- 42. **Cai G,** Mahooti S, Lipata FM, Chhieng D, Hui P. Diagnostic value of K-ras mutation analysis for pancreaticobiliary cytology specimens with indeterminate diagnosis. *Cancer Cytopathology* 2012; 120:313-318.
- 43. Monaco SE, Wu Y, Teot LA, **Cai G.** Assessment of estrogen receptor (ER), progesterone receptor (PR), and human epidermal growth factor receptor 2 (HER2) status in the fine needle aspirates of metastatic breast carcinomas. *Diagnostic Cytopathology* 2013; 41:308-315.
- 44. Levy GH, Finkelstein A, Harigopal M, Chhieng D, Cai G. Cytoplasmic vacuolization: An under-recognized cytomorphologic feature in endocrine tumors of the pancreas. *Diagnostic Cytopathology* 2013; 41:623-628.
- 45. Eze OP, Cai G, Baloch ZW, Khan A, Virk R, Hammers L, Udelsman R, Roman S, Sosa JA, Carling T, Chhieng DC, Theoharis CG, Prasad ML. Vanishing thyroid tumors: a diagnostic dilemma following ultrasound guided fine needle aspiration. *Thyroid* 2013; 23:194-200.
- 46. Bernstein J, Ustun B, Alomari A, Bao F, Aslanian HR, Siddiqui U, Chhieng D, Cai G. Performance of endoscopic ultrasound-guided fine needle aspiration in diagnosing pancreatic neuroendocrine tumors. *CytoJournal* 2013; 10:10.
- 47. **Cai G,** Wong, R, Chhieng D, Levy, GH, Gettinger SN, Herbst RS, Puchalski JT, Homer RJ, Hui P. Identification of epidermal growth factor receptor (*EGFR*) mutation, *KRAS* mutation, and *ALK* gene rearrangement in the cytological specimens of primary and metastatic lung adenocarcinomas. *Cancer Cytopathology* 2013; 121:500-507.
- 48. Karunamurthy A, Cai G, Dacic S, Khalbuss WE, Pantanowitz L, Monaco SE. Evaluation of endobronchial ultrasound-guided fine-needle aspirations (EBUS-FNA): Correlation with Adequacy and Histologic follow-up. *Cancer Cytopathology* 2014; 122(1):23-32.
- 49. Pirazzoli V, Nebhan C, Song X, Wurtz A, Walther Z, **Cai G,** Zhao Z, Jia P, de Stanchina E, Shapiro EM, Gale M, Yin R, Horn L, Carbone DP, Stephens PJ, Miller V, Gettinger S, Pao W, Politi K. Acquired resistance of EGFR-mutant lung adenocarcinomas to afatinib plus cetuximab is associated with activation of mTORC1. *Cell Reports* 2014; 7(4):999-1008.
- 50. Jiao L, Chen H, Zhao, Wang L, Lin Z, Chen L, Chen G, Cai G. Expression and significance of p40, TTF-1, p63 and CK5/6 in lung adenocarcinoma and squamous cell carcinoma. *Journal of Wenzhou Medical University* 2014; 44(7):489-493.
- 51. Djekidel M, Cai G, Ahmed R, Theoharis C. Correlation of hot nodules and cytopathology: nine years at an academic institution. *OMICS Journal of Radiology* 2014; 3(3):162.
- 52. Liu WW, Zheng Y, Xia ZL, Zhang SQ, Bao F, Lin ZM, Ji XH, Ying LL, Zhao LL, Xu MF, Cai G, Chen GR. The study of the expression and the prognostic value of Survivin and Ki67 in pancreatic endocrine tumors. *Chinese Journal of Applied Physiology* 2015; 31(1):72-75.
- 53. **Cai G,** Bernstein J, Aslanian HR, Hui P, Chhieng D. Endoscopic ultrasound-guided fine-needle aspiration biopsy of autoimmune pancreatitis: diagnostic clues and pitfalls. *Journal of American Society of Cytopathology* 2015; 4:211-217.
- 54. Zheng Y, Zhang SQ, Ni JY, Li HM, Ma J, Huang CX, Chen GR, Cai G. Identification and clinical significance of fetal microchimerism in the renal biopsy specimens of patients with lupus nephritis. *Chinese Journal of Applied Physiology* 2016; 32:241-246.

- 55. Alomari AK, Ustun B, Aslanian HR, Ge X, Chhieng DC, Cai G. Endoscopic ultrasound-guided fine-needle aspiration biopsy diagnosis of secondary tumors involving the pancreas: an institution's experience. *CytoJournal* 2016; 13:1.
- 56. Oza VM, Cai G, Aslanian HR. Clinical utility of rapid on-site cytopathology. *Gastrointestinal Endoscopy* 2017; 85(1):261.
- 57. Zhao L, Gu Q, Xiang L, Dong X, Li H, Ni J, Wan L, Cai G, Chen G. Curcumin inhibits apoptosis by modulating Bax/Bcl-2 expression and alleviates oxidative stress in testes of streptozotocin-induced diabetic rats. *Therapeutics and Clinical Risk Management* 2017; 13:1099-1105.
- 58. Nagarajan A, Dogra SK, Sun L, Gandotra N, Ho T, Cai G, Cline G, Kumar P, Cowles RA, Wajapeyee N. Paraoxonase 2 facilitates pancreatic cancer growth and metastasis by stimulating GLUT1-mediated glucose transport. *Molecular Cell* 2017; 67(4):685-701.
- 59. Gettinger S, Choi J, Hastings K, Truini A, Datar I, Sowell R, Wurtz A, Dong W, Cai G, Melnick MA, Du V, Schlessinger J, Goldberg S, Chiang A, Sanmamed M, Melero I, Agorreta J, Montuenga L, Lifton R, Ferrone S, Kavathas P, Rimm D, Kaech S, Schalper K, Herbst R, Politi K. Impaired HLA class I antigen processing and presentation as a mechanism of acquired resistance to immune checkpoint inhibitors in lung cancer. *Cancer Discovery* 2017; 7(12):1420-1435.
- 60. Li-Geng T, Cai G, Aslanian HR. EUS diagnosis of cystic pancreatic neuroendocrine tumors. *Video Gastrointestinal Endoscopy* 2018; 3(3):106-108.
- 61. Yousaf MN, Cai G, Aslanian HR. EUS evaluation of liver lesions. *Video Gastrointestinal Endoscopy* 2018; 3(1):31-33.
- 62. Malvi P, Janostiak R, Nagarajan A, Cai G, Wajapeyee N. Loss of thymidine kinase 1 inhibits lung cancer growth and metastatic attributes by reducing GDF15 expression. *PLoS Genetics* 2019; 15(10):e1008439.
- 63. Celli R, Tang LH, Cai G, Freedman-Weiss M, Colunga M, Salem RR, Majumdar S, Jain D. Proinsulin expressing neuroendocrine tumors of the pancreas: an underrecognized entity. *Pancreas* 2019; 48(1):55-59.
- 64. Hastings K, Yu H, Wei W, Sanchez-Vega F, DeVeaux M, Cho J, Rizvi H, Lisberg A, Truini A, Lydon CA, Liu Z, Henick BS, Wurtz A, Cai G, Plodkowski AJ, Long NM, Halpenny DF, Killam J, Oliva I, Schultz N, Riely GJ, Arcila, ME, Ladanyi M, Zelterman D, Herbst RS, Goldberg SB, Awad MM, Garon EB, Gettinger S, Hellmann MD, Politi K. EGFR mutation subtypes and response to immune checkpoint blockade treatment in non-small cell lung cancer. *Annals of Oncology* 2019; 30(8):1311-1320.
- 65. Baine MK, Sinard JH, Cai G, Homer RJ. A semiquantitative scoring system allows biopsy diagnosis of pulmonary large cell neuroendocrine carcinoma. *American Journal of Clinical Pathology* 2020; 153(2):165-174.
- 66. Ray AS, Li C, Murphy TE, **Cai G**, Araujo KLB, Bramley K, DeBiasi EM, Pisani MA, Cortapassi OO, Puchalski JT. Improved yield and specimen quality with EBUS-guided forceps biopsies: a retrospective analysis. *Annals of Thoracic Surgery* 2020; 109(3):894-901.

- 67. Abi-Raad R, Lavik JP, Barbieri AL, Zhang X, Adeniran AJ, Cai G. Grading pancreatic neuroendocrine tumors by Ki-67 index evaluated on fine-needle aspiration cellblock material. *American Journal of Clinical Pathology* 2020; 153(1):74-81.
- 68. Bugide S, Parajuli KR, Chava S, Pattanayak R, Manna DLD, Shrestha D, Yang ES, Cai G, Johnson DB, Gupta R. Loss of HAT1 expression confers BRAFV600E inhibitor resistance to melanoma cells by activating MAPK signaling via IGF1R. *Oncogenesis* 2020; 9(5):44.
- 69. Gilani SM, Muniraj T, Farrell JJ, Aslanian HR, Cai G. Endoscopic ultrasound-guided fine needle aspiration of accessory spleen: Cytomorphologic features and diagnostic considerations. *Diagnostic Cytopathology* 2020; 48(7):623-628.
- 70. Gupta R, Malvi P, Parajuli KR, Janostiak R, Bugide S, Cai G, Zhu LJ, Green MR, Wajapeyee N. KLF7 promotes pancreatic cancer growth and metastasis by up-regulating ISG expression and maintaining Golgi complex integrity. *Proceedings of the National Academy of Sciences of the United States of America* 2020; 117(22):12341-12351.
- 71. Gilani SM, Adeniran AJ, Cai G. Endoscopic ultrasound-guided fine needle aspiration cytologic evaluation of intraductal papillary mucinous neoplasm and mucinous cystic neoplasms of pancreas. *American Journal of Clinical Pathology* 2020; 154(4):559-570.
- 72. Darbinyan A, Morotti R, **Cai G**, Prasad ML, Christison-Lagay E, Dinauer C, Adeniran AJ. Cytomorphologic features of thyroid disease in patients with DICER1 mutations: A report of cytology-histopathology correlation in 7 patients. *Cancer Cytopathology* 2020; 128(10):746-756.
- 73. Abi-Raad R, Prasad ML, Adeniran AJ, Cai G. Fine-needle aspiration cytomorphology of papillary thyroid carcinoma with NTRK gene rearrangement from a case series with predominantly indeterminate cytology. *Cancer Cytopathology* 2020; 128(11):803-811.
- 74. Gilani SM, Muniraj T, Aslanian HR, **Cai G.** Endoscopic ultrasound-guided fine needle aspiration cytology diagnosis of upper gastrointestinal tract mesenchymal tumors: Impact of rapid onsite evaluation and correlation with histopathologic follow-up. *Diagnostic Cytopathology* 2021; 49(2):203-210.
- 75. Gilani SM, Ross JA, Prasad ML, Hammers L, Cai G, Adeniran AJ. Molecular alterations in Hürthle cell neoplasms of thyroid: A fine needle aspiration cytology study with cytology-histology correlation. *Cancer Cytopathology* 2021; 129(5)363-373.
- 76. Abi-Raad R, Prasad ML, Gilani S, Garritano J, Barlow D, Cai G, Adeniran AJ. Quantitative assessment of p16 expression in FNA specimens from head and neck squamous cell carcinoma and correlation with HPV status. *Cancer Cytopathology* 2021; 129(5):394-404.
- 77. Abi-Raad R, Prasad ML, Zheng J, Hui P, Ustun B, Schofield K, Cai G, Adeniran AJ. Prognostic Assessment of BRAF Mutation in Preoperative Thyroid Fine-Needle Aspiration Specimens. *American Journal of Clinical Pathology* 2021; 156(1):100-108.
- 78. Wang M, Levy G, Qin X, Adeniran AJ, Cai G. Fine-Needle Aspiration Biopsy of Intraocular Mass-like Lesions. *American Journal of Clinical Pathology* 2021; 156(2):268-277.
- 79. Zuo T, Levi AW, Lin Q, Abi-Raad R, Adeniran AJ, **Cai G.** High-Risk Human Papillomavirus Testing, Genotyping, and Histopathologic Follow-up in Women with Abnormal Glandular Cells on Papanicolaou Tests. *American Journal of Clinical Pathology* 2021; 156(4):569-576.

- 80. Wang M, Abi-Raad R, Baldassarri R, Adeniran AJ, Cai G. Expression of Insulinoma-Associated Protein 1 (INSM1) in Non-small Cell Lung Cancers: A Diagnostic Pitfall for Neuroendocrine Tumors. *Human Pathology* 2021; 115:104-111.
- 81. Wang M, Abi-Raad R, Adeniran AJ, Cai G. Expression of NKX3.1, Prostatic Specific Antigen and Prostatic Specific Alkaline Phosphatase in Cytology Specimens of Metastatic Prostatic Carcinoma. *Journal of Clinical and Translational Pathology* 2021; 1(1):16-20.
- 82. Ahmed M, Abi-Raad R, Fu L, Holt EH, Adeniran AJ, **Cai G.** Performing Calcitonin Immunocytochemistry on an Additional ThinPrep Slide in Fine-Needle Aspiration Diagnosis of Medullary Thyroid Carcinoma. *American Journal of Clinical Pathology* 2022; 157(3):426-433.
- 83. Podany P, Abi-Raad R, Barbieri A, Garritano J, Prasad ML, Cai G, Adeniran AJ, Gilani SM. Anaplastic Thyroid Carcinoma. *American Journal of Clinical Pathology* 2022; 157(4):608-619. PMID: 34661606.
- 84. Gilani SM, Abi-Raad R, Garritano J, Cai G, Prasad ML, Adeniran AJ. RAS mutation and associated risk of malignancy in the thyroid gland: An FNA study with cytology-histology correlation. *Cancer Cytopathology* 2022; 130(4):284-293. PMID: 34847284.
- 85. Abi-Raad R, Prasad ML, Adeniran AJ, Cai G. Copy number variations identified in thyroid FNA specimens are associated with Hürthle cell cytomorphology. *Cancer Cytopathology* 2022; 130(6):415-422. PMID: 35332982.
- 86. Sun T, Zuo T, Hui P, **Cai G.** Significance of KRAS mutation testing in biliary brushing cytology specimens: A 10-year retrospective review. *Cancer Cytopathology* 2022; 130(7):558-565. PMID: 35417072.
- 87. Razzano D, Bouza SJ, Hernandez PV, Wang M, Robert ME, Walther Z, Cai G. Comprehensive molecular profiling of pancreatic ductal adenocarcinoma in FNA, biopsy, and resection specimens. *Cancer Cytopathology* 2022; 130(9):726-734. PMID: 35511415.
- 88. Wang M, Stendahl K, Cai G, Adeniran A, Harigopal M, Gilani SM. Evaluation of TRPS1 Expression in Pleural Effusion Cytology Specimens With Metastatic Breast Carcinoma. *American Journal of Clinical Pathology* 2022;158(3):416-425. PMID: 35760555.
- 89. Wang X, Abi-Raad R, Tang H, Cai G. Ki-67 index assessment on FNA specimens of gastrointestinal stromal tumor: Correlation with mitotic rate and potential predictive value for risk stratification. *Cancer Cytopathology* 2022; 130(12):974-982. PMID: 35876606.
- 90. Stendahl K, Gilani SM, Basturk O, Hui P, Sigel C, Cai G. Intraductal papillary neoplasm of the bile duct: Cytomorphologic and molecular features. *Cancer Cytopathology* 2022; 131(1):37-49. PMID: 36041224.
- 91. Chen X, Chen H, Lin R, Li Y, Guo Y, Chen Q, Zhang Y, Cai G, Hu M, Chen G. Correlation between PD-L1 expression of the tumour cells and lymphocytes infiltration in the invasive front of urothelial carcinoma. *Journal of Clinical Pathology* 2022 Nov 1:jclinpath-2021-207795. PMID: 36319076.
- 92. Wang M, Chen PP, Cai G. GATA3 expression in primary lung carcinomas: correlation with histopathologic features and TTF-1, napsin A, and p40 expression. *Human Pathology* 2023; 135:93-98. PMID: 36702357.

- 93. Meiklejohn K, Hrones M, Wang M, Prasad ML, Cai G, Adeniran A, Gilani SM. Diagnosis of acinic cell carcinoma of the salivary gland on cytology specimens: Role of NOR-1 (NR4A3) immunohistochemistry. *Cytopathology* 2023; 34(3):219-224. PMID: 36825365.
- 94. Sun T, Gilani S, Jain D, Cai G. Cytomorphologic, immunophenotypical and molecular features of pancreatic acinar cell carcinoma. *Diagnostic Cytopathology* 2023; 51(11):674-683. PMID: 37469257.
- 95. Sardana R, Abi-Raad R, Adeniran AJ, Cai G. Utility of parathyroid hormone immunocytochemistry in fine needle aspiration diagnosis of parathyroid tissue. *Cytopathology* 2023; 34(6):597-602. PMID: 37534757.
- 96. Khajir G, Sun T, Wang H, Sprenkle PC, Adeniran AJ, Cai G, Levi AW. Cytologic evaluation of upper urinary tract specimens: An institutional retrospective study using The Paris System for Reporting Urine Cytology second edition with histopathologic follow-up. *Cytopathology* 2024; 35(2):235-241. PMID: 37916579.
- 97. Malvi P, Chava S, **Cai G**, Hu K, Zhu LJ, Edwards YJK, Green MR, Gupta R, Wajapeyee N. HOXC6 drives a therapeutically targetable pancreatic cancer growth and metastasis pathway by regulating MSK1 and PPP2R2B. *Cell Reports Medicine* 2023; 4(11):101285. PMID: 37951219.
- 98. Hu B, Wiesehöfer M, de Miguel FJ, Liu Z, Chan LH, Choi J, Melnick MA, Arnal-Estape A, Walther Z, Zhao D, Lopez-Giraldez F, Wurtz A, Cai G, Fan R, Gettinger S, Xiao A, Yan Q, Homer R, Nguyen DX, Politi K. ASCL1 Drives Tolerance to Osimertinib in EGFR Mutant Lung Cancer in Permissive Cellular Contexts. *Cancer Research* 2024; 84(8):1303-1319. PMID: 38359163.
- 99. Wang X, Zhang X, Hui P, Cai G. Improving diagnostic yield of pancreatic serous cystadenoma with cyst fluid ancillary testing, adjunct immunohistochemistry, and additional fine-needle biopsy sampling. *Cancer Cytopathology* 2024; 132(7):425-434. PMID: 38450993.
- 100. Cecchini M, Salem RR, Robert M, Czerniak S, Blaha O, Zelterman D, Rajaei M, Townsend JP, Cai G, Chowdhury S, Yugawa D, Tseng R, Mejia Arbelaez C, Jiao J, Shroyer K, Thumar J, Kortmansky J, Zaheer W, Fischbach N, Persico J, Stein S, Khan SA, Cha C, Billingsley KG, Kunstman JW, Johung KL, Wiess C, Muzumdar MD, Spickard E, Aushev VN, Laliotis G, Jurdi A, Liu MC, Escobar-Hoyos L, Lacy J. Perioperative Modified FOLFIRINOX for Resectable Pancreatic Cancer: A Nonrandomized Controlled Trial. *JAMA Oncology* 2024; 10(8):1027-1035. PMID: 38900452; PMCID: PMC11190830.
- 101. Takeda K, Adeniran AJ, Levi AW, Tang H, **Cai G.** Cytomorphological characteristics of low-grade papillary urothelial carcinoma in voided urine samples: Distinction from benign and high-grade papillary urothelial carcinoma. *Cytopathology* 2024; 35(6):724-732. PMID: 38992916.
- 102. Takeda K, Cai G, Adeniran AJ, Sun T. Reevaluation of ovarian cyst fine-needle aspiration cytology: A 10-year institutional experience. *American Journal of Clinical Pathology* 2024 Jun 25:aqae077. doi: 10.1093/ajcp/aqae077. Epub ahead of print. PMID: 38916141.
- 103. Abi-Raad R, Shi Q, Chen F, Antony V, Hsiao WY, Simsir A, Liu X, Brandler TC, **Cai G.** TERT promoter mutations and additional molecular alterations in thyroid fine-needle aspiration specimens: A multi-institutional study with histopathologic follow-up. *American*

- Journal of Clinical Pathology 2024 Sep 9:aqae117. doi: 10.1093/ajcp/aqae117. Epub ahead of print. PMID: 39250709.
- 104. Wang M, Cai G, Gilani SM. TRPS1 expression in cytologic specimens of salivary duct carcinoma and other salivary gland tumors. *Annals of Diagnostic Pathology* 2025 Feb;74:152406. doi: 10.1016/j.anndiagpath.2024.152406. Epub 2024 Nov 9. PMID: 39547127.
- 105. Yu S, Dolezal D, Aslanian HR, Cai G. Fine-Needle Aspiration Biopsy of Adrenal Gland Lesions: The Roles of Image Guidance, Rapid On-Site Evaluation and Additional Tissue Sampling. *Cytopathology* 2025 May;36(3):228-235. doi: 10.1111/cyt.13472. Epub 2025 Jan 29. PMID: 39878416.
- 106. Antony V, Sun T, Dolezal D, Cai G. Comprehensive Molecular Profiling of Metastatic Pancreatic Adenocarcinomas. *Cancers (Basel)* 2025 Jan 21;17(3):335. doi: 10.3390/cancers17030335. PMID: 39941707; PMCID: PMC11815932.
- 107. Tang H, Xia H, Sun N, Hernandez PV, Wang M, Adeniran AJ, **Cai G.** Selection of neuroendocrine markers in diagnostic workup of neuroendocrine neoplasms: The real-world data and machine learning model algorithms. *Cancer Cytopathology* 2025 May;133(5):e70018. doi: 10.1002/cncy.70018. PMID: 40289395.
- 108. Takeda K, Tang H, Kumar D, Adeniran AJ, Cai G. Clinicopathologic characteristics of lymphoproliferative disorders involving the kidney. *American Journal of Clinical Pathology* 2025 May 26:aqaf023. doi: 10.1093/ajcp/aqaf023. Epub ahead of print. PMID: 40418705.

Chapters, Books and Reviews:

Books

- 109. Cai G, Adeniran A (eds). *Rapid On-site Evaluation: A Practical Guide*. Springer Publisher, Berlin, Germany, 2019.
- 110. Gilani S, Cai G (eds). *Non-Neoplastic Cytology: A Comprehensive Guide*. Springer Publisher, Berlin, Germany, 2023.

Book Chapters

- 111. **Cai G**, Wang HY, Friedman E. Adenosine-mediated regulation of cardiac function: The effect of age. In: *Effects of Extracellular Adenosine and ATP on Cardiomyocytes*. (Pelleg A, ed.). Landes Biosciences, Georgetown, Maryland, 1998, p173-195.
- 112. **Cai G.** Breast. In: *The Yearbook of Pathology and Laboratory Medicine*. (Raab SS and Parwani AV, eds.). Elsevier Mosby, Philadelphia, Pennsylvania, 2008: p23-45.
- 113. **Cai G.** Introduction to fine needle aspiration biopsy. In: *Fine Needle Aspiration Cytopathology (Zhao C, Pantanowitz L, Yang M, eds)*. Beijing: Beijing Science & Technology Press, 2014: p1-13.
- 114. **Cai G.** Fine needle aspiration biopsy of the pancreas. In: *Fine Needle Aspiration Cytopathology (Zhao C, Pantanowitz L, Yang M, eds)*. Beijing: Beijing Science & Technology Press, 2014: p251-282.

- 115. Cai G, Chhieng D. Immunocytochemical studies in effusions. In: *Cytohistology of the Serosal Surfaces*. (Michael CW, Chhieng DC, Bedrossian CWM, eds.). Cambridge University Press, Cambridge, England, 2015: p247-257.
- 116. **Cai G.** How to approach rapid on-site evaluation during bronchoscopy-guided biopsies? In: *The Yearbook of Respiratory and Critical Care Medicine, 2016-2017 (Chen R, ed.)* Beijing: People's Medical Publishing House, 2017: p482-485.
- 117. **Cai G.** Pathological Evaluation of the specimens obtained by bronchoscopy-guided biopsy. In: *The Yearbook of Respiratory and Critical Care Medicine, 2016-2017 (Chen R, ed.)* Beijing: People's Medical Publishing House, 2017: p486-489.
- 118. Baldassarri RJ, Baldassarri S, **Cai G.** Large cell neuroendocrine carcinoma versus small cell neuroendocrine carcinoma of the lung. In: *Practical Lung Pathology* (Xu H, Ricciotti R, eds.). Berlin: Springer, 2022: 71-74.
- 119. Yoon EC, **Cai G.** Atypical carcinoid tumor versus large cell neuroendocrine carcinoma. In: *Practical Lung Pathology* (Xu H, Ricciotti R, eds.). Berlin: Springer, 2022: 75-81.
- 120. Yoon EC, Zhang X, Cai G. Small cell carcinoma versus atypical carcinoid tumor. In: *Practical Lung Pathology* (Xu H, Ricciotti R, eds.). Berlin: Springer, 2022: 83-88.
- 121. Baine M, Cai G, Zhang X. Pleomorphic carcinoma versus sarcomatoid malignant mesothelioma. In: *Practical Lung Pathology* (Xu H, Ricciotti R, eds.). Berlin: Springer, 2022: 137-145.
- 122. **Cai G,** Pitman MB, Sigel CS. Intraductal papillary mucinous neoplasm low-grade. In: *International System for Reporting Pancreaticobiliary Cytopathology*. World Health Organization/International Agency for Research on Cancer. 2022: 85-86.
- 123. **Cai G,** Sigel CS. Intraductal papillary mucinous neoplasm of the bile duct low-grade. In: *International System for Reporting Pancreaticobiliary Cytopathology*. World Health Organization/International Agency for Research on Cancer. 2022: 87.
- 124. Cai G, Stelow EB. Mucinous cystic neoplasm low-grade. In: *International System for Reporting Pancreaticobiliary Cytopathology*. World Health Organization/International Agency for Research on Cancer. 2022: 88-89.
- 125. **Cai G,** Siegel CS, Tanaka M. Pancreaticobiliary neoplasm: low-risk/grade sample reports. In: *International System for Reporting Pancreaticobiliary Cytopathology*. World Health Organization/International Agency for Research on Cancer. 2022: 91-92.
- 126. **Cai G,** Stelow EB, Zhang ML. Mucinous cystic neoplasm high-grade. In: *International System for Reporting Pancreaticobiliary Cytopathology*. World Health Organization/International Agency for Research on Cancer. 2022: 106-107.

Reviews

- 127. Chen CS, Cai G. Optimizing pathologic evaluation of fine needle aspiration biopsies. *Chinese Journal of Tuberculosis and Respiratory Diseases* 2010; 33(1):60-62.
- 128. Bao F, Chen G, Hui P, Cai G. Diagnosis, grading and prognostic markers of pancreatic neuroendocrine neoplasm. *Chinese Journal of Pathology* 2013; 42:426-429.

- 129. Celli R, Cai G. Ewing sarcoma/primitive neuroectodermal tumor of the kidney: a rare and lethal entity. *Archives of Pathology and Laboratory Medicine* 2016; 140:281-285.
- 130. Kandukuri SR, Lin F, Gui L, Gong Y, Fan F, Chen L, **Cai G,** Liu H. Application of Immunohistochemistry in Undifferentiated Neoplasms: A Practical Approach. *Archives of Pathology and Laboratory Medicine* 2017; 141:1014-1032.
- 131. Oh S, Ronaghi R, Cai G. Molecular testing on pleural fluid samples. *Seminar in Respiratory and Critical Care Medicine* 2019; 40(3):340-346.
- 132. Baldassarri RJ, Kumar D, Baldassarri S, Cai G. Diagnosis of infectious diseases in the lower respiratory tract: a cytopathologist's perspective. *Archives of Pathology and Laboratory Medicine* 2019; 143(6):683-694.
- 133. Cai G. Diagnostic and prognostic evaluation of uveal melanoma via fine needle aspiration biopsy. *Chinese Journal of Optometry and Vision Science*. 2020; (2)81-86.
- 134. Dan L, Xu H, Cai G. Morphologic variants of well-differentiated pancreatic neuroendocrine tumors: fine-needle aspiration cytomorphology and diagnostic pitfalls. *Journal of Clinical and Translational Pathology* 2021; 2(1):12-17.
- 135. Wang M, Gilani S, Xu H, Cai G. Salivary gland-type tumors of the lung. *Archives of Pathology and Laboratory Medicine* 2021; 145(11):1379-1386.
- 136. Hu ZY, Han FJ, Yu L, Jiang Y, Cai G. AI-link omnipotent pathological robot: Bridging medical meta-universe to real-world diagnosis and therapy. *Innovation (Cambridge)* 2023; 4(5):100494. PMID: 37663933.
- 137. Wang M, Chandra A, Cai G. The International System for Reporting Serous Fluid Cytopathology-An Updated Review. *Journal of Clinical and Translational Pathology* 2023; 3(4):160-177. PMID: 39372684; PMCID: PMC11451941.
- 138. Dolezal D, Kholová I, **Cai G.** The World Health Organization Reporting System for Lung Cytopathology-A Review of the First Edition. *Journal of Clinical and Translational Pathology* 2024; 4(1):18-35. PMID: 38736711; PMCID: PMC11086742.
- 139. Wang M, Lozano MD, **Cai G.** The World Health Organization System for Reporting Pancreaticobiliary Cytopathology: Standardized Categories and Practical Approaches to Pancreatic Lesions. *Journal of Clinical and Translational Pathology* 2024;4(3):122-135. doi: 10.14218/JCTP.2024.00034.
- 140. Han Y, Cai G. Intraoperative frozen section diagnosis of lung specimens: An updated review. Seminars in Diagnostic Pathology 2025 May;42(3):150901. doi: 10.1016/j.semdp.2025.150901. Epub 2025 Apr 1. PMID: 40188626.

Case Reports, Technical Notes, Letters:

141. Cai G, Simsir A, Cangiarella J. Invasive mammary carcinoma with osteoclast-like giant cells diagnosed by fine needle aspiration biopsy: review of the cytologic literature and distinction from other mammary lesions containing giant cells. *Diagnostic Cytopathology* 2004; 30:396-400.

- 142. Cai G, Inghirami G, Moreira A, Sen F. Primary hepatic anaplastic large cell lymphoma diagnosed by fine needle aspiration biopsy. *Diagnostic Cytopathology* 2005; 33:106-109.
- 143. Cai G, Sidhu GS, Gu X, Herrera GA, Cubukcu-Dimopulo O, Kahn T, Wieczorek R. Plasma cell dyscrasia with kappa light chain crystals in proximal tubular cells: a histological immunofluorescent and ultrastructural study. *Ultrastructural Pathology* 2006; 30:315-319.
- 144. Ramdall RB, Cai G, Levine PH, Bhanote M, Garcia R, Cangiarella J. Fine-needle aspiration biopsy findings in epithelioid myoepithelioma of the parotid gland: a case report. *Diagnostic Cytopathology* 2006; 34:776-779.
- 145. Elwood H, Parwani A, Cai G. Fine-needle aspiration biopsy of myxoid liposarcoma metastatic to the liver: cytomorphologic and cytogenetic features. *Diagnostic Cytopathology* 2007; 35(11):734-737.
- 146. Cai G, Ramdall R, Garcia R, Levine P. Pulmonary metastasis of giant cell tumor of the bone diagnosed by fine-needle aspiration biopsy. *Diagnostic Cytopathology* 2007; 35(6):358-362.
- 147. **Cai G,** Mercado C, Cangiarella J. Adenomyoepithelioma of the breast: diagnosed by fineneedle aspiration biopsy. *ASCP Check Sample Cytopathology* 2007; 35(2):17-30.
- 148. Cai G, Parwani AV. Cytomorphology of lymphoepithelioma-like carcinoma of the urinary bladder: report of two cases. *Diagnostic Cytopathology* 2008; 36(8):600-603.
- 149. Yu J, Nikiforova MN, Hodak SP, Yim JH, Cai G, Walls A, Nikiforov YE, Seethala RR. Tumor-to-tumor metastases to follicular variant of papillary thyroid carcinoma: histologic, immunohistochemical, and molecular studies of two unusual cases. *Endocrine Pathology* 2009; 20(4):235-242.
- 150. Yu J, Seethala RR, Walls A, Cai G. Fine-needle aspiration of breast carcinoma metastatic to follicular variant of papillary thyroid carcinoma. *Diagnostic Cytopathology* 2009; 37(9):665-666.
- 151. Monaco SE, Navolotskaia O, Cai G. Fine-needle aspiration biopsy diagnosis of prostate carcinoma metastatic to the breast. *Diagnostic Cytopathology* 2009; 37(5):388-390.
- 152. Marks-Jones DA, Zynger DL, Parwani AV, Cai G. Fine needle aspiration biopsy of renal mucinous tubular and spindle cell carcinoma: Report of two cases. *Diagnostic Cytopathology* 2010; 38(1):51-55.
- 153. Nagarajan P, Cai G, Padda MS, Selbst M, Kowalski D, Proctor DD, Chhieng D, Aslanian HR, Harigopal M. Littoral cell angioma of the spleen diagnosed by endoscopic ultrasound-guided fine-needle aspiration biopsy. *Diagnostic Cytopathology* 2011; 39(5):318-322.
- 154. Sheth MM, Goodman TR, Cai G. Best cases from the AFIP: congenital mesoblastic nephroma. *RadioGraphics* 2012; 32(1):99-103.
- 155. Kuzmik GA, Sang AX, Cai G, Tranquilli M, Elefteriades JA. Respecting symptoms in thoracic aortic aneurysm management: a case of symptomatic necrotizing granulomatous aortitis. *International Journal of Angiology* 2012; 21(3):151-154.
- 156. Levy GH, Marti JL, Cai G, Kayne RD, Udelsman R, Hammers LW, Kowalski DP, Prasad ML. Pleomorphic adenoma arising in an incidental midline thyroid nodule: a case report and review of the literature. *Human Pathology* 2012; 43:134-137.

- 157. Shumaster V, Bae JW, Gettinger SN, Cai G, Kim AW. Late recurrence of basaloid carcinoma initially treated as a small cell lung cancer. *Journal of Thoracic Diseases* 2013; 5(2):E68-70.
- 158. Bernstein J, Adeniran AJ, Cai G, Theoharis CG, Ustun B, Beckman D, Aslanian HR, Harigopal M. Endoscopic ultrasound-guided fine-needle aspiration diagnosis of merkel cell carcinoma metastatic to the pancreas. *Diagnostic Cytopathology* 2014; 42(3):247-252.
- 159. Karunamurthy A, Cai G, Dacic S, Khalbuss WE, Pantanowitz L, Monaco SE. Reply to verification bias in diagnostic accuracy studies for fine-needle aspiration cytology. *Cancer Cytopathology* 2014; 122(6):474-475.
- 160. Cai G, Sun X, Aslanian HR, Chhieng D. Rapid on-site evaluation for endoscopic ultrasound-guided fine-needle aspiration diagnosis of pancreatic lesions. *Pathology Case Review* 2015; 20:164-168.
- 161. Fu LY, Mitchell KA, Cai G. Clear cell hepatocellular carcinoma diagnosed by bile duct brushing cytology. *Diagnostic Cytopathology* 2016; 44(2):147-151.
- 162. Lin Q, Cai G, Yang KY, Yang L, Chen CS, Li YP. Case report: small cell transformation and metastasis to the breast in a patient with lung adenocarcinoma following maintenance treatment with epidermal growth factor receptor tyrosine kinase inhibitors. *BMC Cancer* 2016; 16:593.
- 163. Li Y, Su S, Cai G, Lin Q, Zhou Y, Ouyang J, Chen B, Ye J, Wu X, Chen C. Responses to crizotinib and chemotherapy in patients with lung adenocarcinoma harboring a concomitant EGFR mutation and ALK gene rearrangement: A case report and review of the literature. *Molecular and Clinical Oncology* 2017; 7:173-182.
- 164. Chen W, Cai G. Endoscopic ultrasound-guided fine needle aspiration biopsy of gastric Schwannoma: cytomorphologic features and diagnostic pitfalls. *Diagnostic Cytopathology* 2019; 47(11):1218-1222.
- 165. Huang Q, Parmer C, Muniraj T, Aslanian HR, Cai G. Fine needle aspiration cytology of peripancreatic myelolipoma. *Diagnostic Cytopathology* 2020; 48(5):491-493.
- 166. Cai G, Wang HY. The Launch of Journal of Clinical and Translational Pathology. *Journal of Clinical and Translational Pathology* 2021; 1(1):1.

Web-based Publications:

- 167. Pancreas FNA http://www.cytologystuff.com/indexcellblock.htm
- 168. Case of the Month, Papanicolaou Society of Cytopathology http://www.papsociety.org/cotm.html