

University of California San Francisco
CURRICULUM VITAE

Prepared: 7/1/2023

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Position: Associate Professor, Step III
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EDUCATION

1995-99	University of California, Los Angeles	BS	Biology (Magna Cum Laude)
2001-09	University of Illinois College of Medicine Medical Scholars Program (MD/PhD)	MD	Medicine
2001-06	University of Illinois at Urbana-Champaign (Advisor: Ziwei Huang, PhD)	PhD	Biochemistry
2004-05	Sanford Burnham Prebys Medical Discovery Institute	Research Fellow	Biochemistry
2009-10	University of California, San Francisco	Resident	Ob/Gyn
2010-11	Scripps Research Institute (Advisor: Donald E. Mosier, MD, PhD)	Postdoctoral Research Fellow	Immunology
2011-15	University of Washington	Resident	Pathology (AP/CP)
2015-16	University of California, San Francisco	Fellow	GI/Liver Pathology

PRINCIPAL POSITIONS HELD

2016-21	University of California, San Francisco	Assistant Professor	Pathology
2021-Present	University of California, San Francisco	Associate Professor	Pathology

LICENSES AND CERTIFICATION

2012-15	Medical licensure, Washington
2014-Present	Medical licensure, California
2015-Present	Board Certification, Anatomic and Clinical Pathology

HONORS AND AWARDS

2001-02	University of Illinois Research Fellowship, University of Illinois at Urbana-Champaign
2002-04	NIH Molecular Biophysics Training Grant, University of Illinois at Urbana-Champaign

- 2008 Teachers Ranked as Excellent by Students (in Human Anatomy), University of Illinois College of Medicine at Urbana-Champaign
- 2009 Excellence in Ob/Gyn Award, University of Illinois College of Medicine at Urbana-Champaign
- 2011 Young Investigator Award, 19th Conference on Retroviruses and Opportunistic Infections, Seattle, Washington
- 2018 Senior author, Rodger C. Haggitt Gastrointestinal Pathology Society Abstract Award (Runner Up): “Indefinite for Dysplasia” in Inflammatory Bowel Disease: Aneuploidy as a Diagnostic and Prognostic Marker of High-Grade Dysplasia or Colorectal Cancer
- 2018 Senior author, F. Stephen Vogel Award for a Research Publication “Use of DNA Flow Cytometry in the Diagnosis, Risk Stratification, and Management of Gastric Epithelial Dysplasia” in *Modern Pathology* (2018) 31(10):1578-1587
- 2021 Senior author, Rodger C. Haggitt Gastrointestinal Pathology Society Abstract Award (Runner Up): Persistent or Recurrent Barrett’s Neoplasia After Endoscopic Therapy is Associated with DNA Content Abnormality Detected by DNA Flow Cytometric Analysis of Paraffin-Embedded Tissue
- 2022 Senior author, Rodger C. Haggitt Gastrointestinal Pathology Society Abstract Award (Runner Up): Undetected Dysplasia Found in Colectomy Specimens of Patients with Inflammatory Bowel Disease is Often Associated with Non-Conventional Dysplastic Features, Flat/Invisible Gross Appearance, and Primary Sclerosing Cholangitis
- 2022 Senior author, International Association of Chinese Pathologists (IACP) Best Abstract Award (Third Place): Increased Risk of Non-Conventional Dysplasia in Patients with Primary Sclerosing Cholangitis Associated with Inflammatory Bowel Disease
- 2022 Rodger C. Haggitt Gastrointestinal Pathology Society Jack Yardley Investigator Award (Recognizing Seminal Contributions or a Significant Body of Published Work that Advances the Field of Gastrointestinal Pathology)
- 2023 Senior author, Rodger C. Haggitt Gastrointestinal Pathology Society Abstract Award (Runner Up): DNA Content Abnormality Frequently Develops in the Right/Proximal Colon in Patients with Primary Sclerosing Cholangitis and Inflammatory Bowel Disease and is Highly Predictive of Subsequent Detection of Dysplasia

KEYWORDS/AREAS OF INTEREST

AIDS, ampullary adenoma/dysplasia, Barrett's esophagus, bile duct adenoma, chemokines, chemokine receptors (CXCR4 and CCR5), cholangiocarcinoma, colorectal cancer, DNA flow cytometry, duodenal adenoma/dysplasia, dysplasia, gastric adenoma/dysplasia/polyp, gastric cancer, HIV-1, inflammatory bowel disease, liver pathology, non-conventional dysplasia, pancreaticobiliary tumors, primary sclerosing cholangitis

CLINICAL AND BASIC SCIENCE RESEARCH ACTIVITIES:

CLINICAL SERVICES

- 2009-10 Ob/Gyn Resident, UCSF Medical Center
- 2011-15 Pathology Resident (AP/CP), University of Washington Medical Center
- 2015-16 Clinical Fellow in GI/Liver Pathology, UCSF Medical Center
- 2016-21 Assistant Professor in Pathology, UCSF Medical Center
- 2021-Present Associate Professor in Pathology, UCSF Medical Center

RESEARCH

- 2001-09 MD/PhD Student, University of Illinois College of Medicine at Urbana-Champaign
Thesis title: Biochemical characterization of CXC chemokine receptor 4 (CXCR4) interactions with HIV-1, natural Ligands, and *de novo* designed inhibitors
- 2004-05 Research Fellow, Sanford Burnham Prebys Medical Discovery Institute
Research title: Neuronal apoptotic signaling pathways probed and intervened by synthetically

2010-11 and modularly modified (SMM) chemokine
Postdoctoral Research Fellow, Scripps Research Institute
Research title: CCR5 mutations distinguish N-terminal modifications of RANTES (CCL5)
with agonist versus antagonist activity

PROFESSIONAL ACTIVITIES:

PROFESSIONAL MEMBERSHIPS

2011-Present College of American Pathologists
2011-Present American Society for Clinical Pathology
2014-Present Rodger C. Haggitt Gastrointestinal Pathology Society
2014-Present United States and Canadian Academy of Pathology
2015-16 Washington State Society of Pathologists
2015-Present Korean Pathologists Association of North America
2018-Present Hans Popper Hepatopathology Society

SERVICE TO PROFESSIONAL ORGANIZATIONS

2018 Moderator, Platform Session on Gastrointestinal Pathology, United States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada
2019-20 Member, Abstract Review Committee, Korean Pathologists Association of North America
2020-21 Co-Chair, Education Committee, Korean Pathologists Association of North America (Responsible for Organizing and Directing the 19th KOPANA Spring Seminar on Molecular Pathology for Practicing Pathologists)
2021 Moderator, Korean Pathologists Association of North America Fall Virtual Seminar
2021-22 Co-Chair, Education Committee, Korean Pathologists Association of North America (Responsible for Organizing and Directing the 20th KOPANA Spring Seminar on Application of Digital Pathology and Artificial Intelligence in Anatomic Pathology)
2022 Moderator, 20th Korean Pathologists Association of North America Spring Seminar
2022-23 Co-Chair, Education Committee, Korean Pathologists Association of North America (Responsible for Organizing and Directing the 21st KOPANA Spring Seminar on Gastrointestinal and Liver Pathology)
2023 Moderator, 21st Korean Pathologists Association of North America Spring Seminar
2023 Course Director, USCAP Short Course on “Non-Conventional Dysplastic Lesions of the Upper and Lower Gastrointestinal Tract: A Review of Their Morphologic, Clinicopathologic, and Molecular Characteristics,” United States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana
2024 Course Director, USCAP Short Course on “Non-Conventional Dysplastic Lesions of the Upper and Lower Gastrointestinal Tract: A Review of Their Morphologic, Clinicopathologic, and Molecular Characteristics,” United States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland

SERVICE TO PROFESSIONAL PUBLICATIONS

2012-Present Ad hoc referee for Journal of Medicinal Chemistry (2 papers in 11 years)
2013-Present Ad hoc referee for Journal of the European Academy of Dermatology and Venereology (1 paper in 10 years)
2014-Present Ad hoc referee for Experimental Biology and Medicine (1 paper in 9 years)
2015-Present Ad hoc referee for JAMA Dermatology (1 paper in 8 years)
2015-Present Ad hoc referee for Clinical and Translational Gastroenterology (2 papers in 8 years)
2016-Present Ad hoc referee for Diagnostic Pathology (12 papers in 7 years)
2016-Present Ad hoc referee for Clinical Gastroenterology and Hepatology (3 papers in 7 years)
2017-Present Ad hoc referee for Human Pathology (6 papers in 6 years)
2017-Present Ad hoc referee for Modern Pathology (8 papers in 6 years)
2018-Present Ad hoc referee for American Journal of Clinical Pathology (2 papers in 5 years)

2018-Present	Ad hoc referee for Gut (2 papers in 5 years)
2019-Present	Ad hoc referee for American Journal of Gastroenterology (7 papers in 4 years)
2019-Present	Ad hoc referee for Inflammatory Bowel Diseases (6 papers in 4 years)
2020-Present	Ad hoc referee for Archives of Pathology & Laboratory Medicine (3 papers in 3 years)
2020-Present	Ad hoc referee for Gastroenterology (1 paper in 3 years)
2022-Present	Ad hoc referee for Transplantation (1 paper in 1 year)
2022-Present	Ad hoc referee for Journal of Clinical Pathology (1 paper in 1 year)

PRESENTATIONS

INTERNATIONAL

2012	19 th Conference on Retroviruses and Opportunistic Infections, Seattle, Washington (1 poster)
2015	United States and Canadian Academy of Pathology Annual Meeting, Boston, Massachusetts (3 posters)
2016	United States and Canadian Academy of Pathology Annual Meeting, Seattle, Washington (1 poster)
2017	United States and Canadian Academy of Pathology Annual Meeting, San Antonio, Texas (2 platforms, 2 posters)
2018	United States and Canadian Academy of Pathology Annual Meeting, Vancouver, Canada (1 platform, 2 posters)
2018	Lecture: Updated AJCC Staging of Hepatobiliary Cancers, 16 th Korean Pathologists Association of North America Spring Seminar, Vancouver, Canada
2019	United States and Canadian Academy of Pathology Annual Meeting, National Harbor, Maryland (1 platform, 4 posters)
2019	Digestive Disease Week, San Diego, California (1 platform, 1 poster)
2019	Pathology Grand Rounds: Neoplastic Lesions of the GI and Liver, Samsung Medical Center, Seoul, South Korea
2020	United States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California (2 platforms, 6 posters)
2020	Keynote Lecture: Non-Conventional Dysplastic Subtypes in Inflammatory Bowel Disease – A Review of Their Diagnostic Characteristics and Potential Clinical Implications, 72 nd Annual Fall Meeting of Korean Society of Pathologists, Seoul, South Korea
2021	Lecture: Use of Molecular Analysis and Immunohistochemistry in the Diagnosis of Hepatocellular and Pancreaticobiliary Tumors, 19 th Korean Pathologists Association of North America Spring Seminar
2021	United States and Canadian Academy of Pathology Annual Virtual Meeting (2 platforms, 4 posters)
2022	United States and Canadian Academy of Pathology Annual Meeting, Los Angeles, California (2 platforms, 5 posters)
2023	United States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana (4 platforms, 5 posters)
2023	USCAP Short Course: Non-Conventional Dysplastic Lesions of the Upper and Lower Gastrointestinal Tract – A Review of Their Morphologic, Clinicopathologic, and Molecular Characteristics, Lecture: Non-Conventional Dysplastic Subtypes and Serrated Epithelial Change in Inflammatory Bowel Disease, United States and Canadian Academy of Pathology Annual Meeting, New Orleans, Louisiana
2023	Lecture: Neoplastic Lesions of the GI Tract and Liver, Princess Alexandra Hospital, University of Queensland, Brisbane, Australia
2023	Lecture: Steatosis Assessment in Donor Liver Biopsies, Liver Transplant Pathology Group Meeting, Princess Alexandra Hospital, University of Queensland, Brisbane, Australia
2023	Keynote Lecture: Diagnosis, Management, and Reporting of Non-Conventional Dysplastic Subtypes and Serrated Epithelial Change in Inflammatory Bowel Disease, Gastrointestinal Pathology Companion Session, 47 th Annual Scientific Meeting of the Australasian Division of the International Academy of Pathology, Brisbane, Australia
2023	Lecture: Atypical Hepatocellular Neoplasm, Liver and Pancreas Pathology

- Companion Session, 47th Annual Scientific Meeting of the Australasian Division of the International Academy of Pathology, Brisbane, Australia
- 2023 ECP Long Course: Polyps and Related Lesions of the GI Tract – An Update, Lecture: Dysplasia and Polyps in Inflammatory Bowel Disease: In a State of Change, 35th European Congress of Pathology, Dublin, Ireland (1 lecture scheduled in September)
- 2023 Lecture: Conventional/Non-Conventional Dysplasia and Adenocarcinoma of the Large Intestine, 75th Annual Fall Meeting of Korean Society of Pathologists, Seoul, South Korea (1 lecture scheduled in October)
- 2024 USCAP Short Course: Non-Conventional Dysplastic Lesions of the Upper and Lower Gastrointestinal Tract – A Review of Their Morphologic, Clinicopathologic, and Molecular Characteristics, Lecture: Non-Conventional Dysplastic Subtypes and Serrated Epithelial Change in Inflammatory Bowel Disease, United States and Canadian Academy of Pathology Annual Meeting, Baltimore, Maryland (1 lecture scheduled in March)

NATIONAL

- 2003 18th American Peptide Society Symposium, Boston, Massachusetts (1 poster)
- 2005 19th American Peptide Society Symposium, San Diego, California (3 posters)
- 2013 College of American Pathologists Annual Meeting, Orlando, Florida (1 poster)
- 2018 Lecture: Selected Updates on Cancer Reporting – Changes and Updates in the Pathologic Staging of Colorectal Cancer, American Society for Clinical Pathology Annual Meeting, Baltimore, Maryland
- 2022 Video Microscopy Tutorial: When to Sweat – Conventional and Non-Conventional Dysplasia in Inflammatory Bowel Disease, American Society for Clinical Pathology Annual Meeting, Chicago, Illinois
- 2022 Lecture: Inflammatory Bowel Disease: Challenges and Controversies – Diagnosis, Management, and Reporting of Non-Conventional Dysplastic Subtypes and Serrated Epithelial Change in Inflammatory Bowel Disease, College of American Pathologists Annual Meeting, New Orleans, Louisiana
- 2023 ModPath Chat Podcast on a Research Publication “Fundic Gland Polyps Lack DNA Content Abnormality Characteristic of Other Adenomatous Precursor Lesions in the Gastrointestinal Tract” in *Modern Pathology*. 2023. Feb;36(5):100117. PMID: 36805791.
- 2023 Lecture: Non-Conventional Dysplastic Subtypes in Inflammatory Bowel Disease, E-Learning Program on Inflammatory Bowel Disease-Related Controversial Topics in Gastrointestinal Pathology, Rodger C. Haggitt Gastrointestinal Pathology Society

REGIONAL AND DEPARTMENTAL

- 2002 Annual Biochemistry Conference, University of Illinois at Urbana-Champaign (1 poster)
- 2002 Molecular and Cellular Biology Graduate Recruiting Weekend, University of Illinois at Urbana-Champaign (2 posters)
- 2003 Annual Biophysics Symposium, University of Illinois at Urbana-Champaign (1 poster)
- 2003 Biochemistry Qualifying Examination Seminar, University of Illinois at Urbana-Champaign (oral presentation)
- 2003 Molecular and Cellular Biology Graduate Recruiting Weekend, University of Illinois at Urbana-Champaign (1 poster)
- 2004 Department of Biochemistry Wednesday Seminar, University of Illinois at Urbana-Champaign (oral presentation)
- 2004 Molecular Biophysics Training Grant Seminar, University of Illinois at Urbana-Champaign (oral presentation)
- 2004 Molecular and Cellular Biology Graduate Recruiting Weekend, University of Illinois at Urbana-Champaign (1 poster)
- 2006 Molecular Biophysics Training Grant Seminar, University of Illinois at Urbana-Champaign (oral presentation)
- 2006 PhD Final Defense Seminar, University of Illinois at Urbana-Champaign (oral presentation)
- 2012 Medicine Autopsy Conference, University of Washington Medical Center (oral presentation)
- 2012 Neuropathology Autopsy Conference, University of Washington Medical Center, Seattle, Washington (oral presentation)

- 2014 Laboratory Medicine Research Conference: A Retrospective Outcome Study of “Indefinite for Dysplasia” in Barrett’s Esophagus and Its Implications for Treatment – Correlation with Histology, Flow Cytometry, Surveillance Intervals, and Endoscopic Findings, University of Washington Medical Center, Seattle, Washington
- 2014 Laboratory Medicine Grand Rounds: Targeting the CXC Chemokine Receptor 4 (CXCR4) for Treatment of HIV-1 Infection and Other Human Diseases, University of Washington Medical Center, Seattle, Washington
- 2014 Lecture: Topics in Clinical Chemistry – Digestive Biomarkers, University of Washington Medical Center, Seattle, Washington
- 2015 Laboratory Medicine Research Conference: Abnormal Flow Cytometric DNA Content is a Significant Predictor of Early Detection of Neoplasia in Barrett’s Esophagus and Inflammatory Bowel Disease, University of Washington Medical Center, Seattle, Washington
- 2015 Pathology Grand Rounds: “Indefinite for Dysplasia” in Barrett’s Esophagus – Inflammation and DNA Content Abnormality are Significant Predictors of Early Detection of Neoplasia, University of Washington Medical Center, Seattle, Washington
- 2015 Faculty Candidate Seminar: “Indefinite for Dysplasia” in Barrett’s Esophagus and Inflammatory Bowel Disease – DNA Content Abnormality is a Significant Predictor of Early Detection of Neoplasia, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire
- 2017 Tutorial: Neoplastic Lesions of the Upper GI and Liver, 33rd Annual Current Issues in Anatomic Pathology, San Francisco, California
- 2017 Pathology Grand Rounds: Diagnosis and Risk Stratification of Barrett’s Dysplasia by Flow Cytometric DNA Analysis of Paraffin-Embedded Tissue, UCSF Medical Center, San Francisco, California
- 2018 Lecture: Dysplasia in Barrett’s Esophagus and Inflammatory Bowel Disease – Diagnosis, Biomarkers, and Implications, 34th Annual Current Issues in Anatomic Pathology, San Francisco, California
- 2018 2nd Annual Pathology Research Day: Use of DNA Flow Cytometry in the Diagnosis, Risk Stratification, and Management of Gastric Dysplasia, UCSF Medical Center, San Francisco, California

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

- 2010-16 Professional Advisory Board Member and Contributing Editor for Central Illinois Breast Cancer Awareness Association (CIBCAA) (<http://cibcaa.org>)
- 2013-Present Medical Editorial Board for DoveMed (<http://dovemed.com>)

UNIVERSITY AND PUBLIC SERVICE:

UCSF CAMPUSWIDE

- 2016-Present Member, Tissue Utilization Committee for Pancreatic Tissue, UCSF Medical Center

DEPARTMENTAL SERVICE

- 2015 Faculty candidate interview and recruitment for a GI/Liver pathologist position (Dr. Gregory Lauwers, Massachusetts General Hospital, Harvard Medical School)
- 2016-Present Active role in organizing cluster P1 (GI/Liver) rotation, including providing a monthly orientation to residents and fellows
- 2016-Present Review clinical research requests for archived tissue
- 2017 Prepared a donor liver tutorial for residents and fellows
- 2017 Updated UCSF cancer synoptics on esophageal, gastric, and anal cancers
- 2017 Faculty candidate interview and recruitment for a surgical pathologist position with expertise in GI/Liver pathology (Dr. Kwun Wah Wen, UCSF Medical Center)
- 2017-Present Residency candidate interview and recruitment
- 2018 Department chair candidate interview

2018	Faculty candidate interview and recruitment for a physician scientist position (Dr. Matthew Stachler, Brigham and Women's Hospital, Harvard Medical School)
2018-Present	GI/Liver fellowship candidate interview and recruitment as well as application review
2018-Present	Prepare and present complex surgical cases at GI tumor board
2018-19	Member, UCSF Pathology Website Development Committee
2018-Present	Director, UCSF Pathology Website and Web Strategy
2018-Present	Member, Residency Clinical Competency Committee
2019-Present	Surgical pathology fellowship candidate interview and recruitment
2020-21	New GI/Liver faculty proctoring (Dr. Amir Qorbani)
2021-22	Member, Pathology Strategic Initiatives Committee in Computational Pathology
2021-23	New GI/Liver faculty proctoring (Dr. Christopher Bowman)
2021-Present	Consultant, GI/Liver consultation service
2021-Present	Provide administrative support for the GI/Liver pathology service, including creating schedules for clinical services, tumor board, and weekend rush liver biopsy calls
2022	Member, New GI/Liver Faculty Search Committee
2022	Faculty candidate interview and recruitment for a cytopathologist position with expertise in molecular pathology (Dr. Georgios Deftereos, University of Utah)
2022-Present	Chair, Clinical Competence Committee, GI/Liver fellowship program
2022-Present	Member, Residency Selection Committee
2022	New GI/Liver faculty proctoring (Dr. Dana Balitzer)
2022-Present	UCSF Medical Center In Basket Results Management – Review APeX results for Pathology and Lab Medicine providers who left UCSF

TEACHING AND MENTORING:

FORMAL MEDICAL, GRADUATE, AND UNDERGRADUATE STUDENT TEACHING UCSF SCHOOL OF MEDICINE

2017-18	Ground School (6 small group discussions) Teaching Contribution: Taught medical students on the topics of inflammation, ischemic injury, and neoplasia, as well as renal, gastrointestinal, and liver pathology
2018-19	Ground School (6 small group discussions) Teaching Contribution: Taught medical students on the topics of inflammation, ischemic injury, and neoplasia, as well as renal, gastrointestinal, and liver pathology
2020	Ground School (2 small group discussions) Teaching Contribution: Taught medical students on the topics of renal and liver pathology

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

2002	Course Title: Current Topics in Biochemistry Teaching Contribution: Prepared and supervised two laboratory sessions
2005	Course Title: Biochemical and Physical Basis of Life Teaching Contribution: Prepared and led two discussion sessions
2006	Course Title: Experimental Techniques in Cell Biology Teaching Contribution: Prepared and supervised two laboratory sessions
2006-07	Course Title: Human Gross Anatomy I and II Teaching Contribution: Prepared and led Anatomy laboratory and discussion sessions; and prepared and proctored Anatomy skills examinations

FORMAL RESIDENT AND FELLOW TEACHING

UCSF MEDICAL CENTER

2016	Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
2017	Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
2017	Lecture: Non-Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
2017	Lecture: Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
2018	Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference

2018 Lecture: Non-Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2018 Lecture: Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2019 Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
 2019 Lecture: Non-Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2019 Lecture: Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2020 Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
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 2022 Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
 2022 Lecture: Non-Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2022 Lecture: Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2023 Lecture: Esophageal Pathology, Anatomic Pathology Teaching Conference
 2023 Lecture: Non-Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference
 2023 Lecture: Neoplastic Gastric Pathology, Anatomic Pathology Teaching Conference

INFORMAL RESIDENT, FELLOW, AND MEDICAL STUDENT TEACHING

UCSF MEDICAL CENTER

2015 Cluster B Educational Conference: “Indefinite for Dysplasia” in Barrett’s Esophagus and Inflammatory Bowel Disease – DNA Content Abnormality is a Significant Predictor of Early Detection of Neoplasia
 2015 Cluster B Educational Conference: “Idiopathic” Sclerosing Cholangitis in Adults – Role of MDR3 Mutations
 2015 Radiology/Pathology/Surgery Joint Conference (once with surgery residents and fellows in December 2015)
 2015-16 Liver Pathology Conference (three times with clinical liver fellows in September 2015, December 2015, and March 2016)
 2015-16 Pediatric Pathology Conference (weekly with pediatricians in September 2015, December 2015, March 2016, and June 2016)
 2016 Course Title: Colorectal Cancer – Gross Anatomy, Pathology, and Histopathology Laboratory
 Teaching Contribution: Taught the gross and histologic appearance of adenomatous colonic polyps and invasive adenocarcinoma
 2016 Cluster B Educational Conference: Interesting USCAP Posters
 2016 Cluster B Educational Conference: Grading of Acute and Chronic Pancreas Allograft Rejection
 2018 Cluster B Educational Conference: Duplication of the Muscularis Mucosae in Barrett’s Esophagus
 2020 Cluster B Educational Conference: Non-Conventional Dysplasia in Inflammatory Bowel Disease
 2020 Pathology Student Interest Group Lunchtime Talk: Life as a Surgical Pathologist

UNIVERSITY OF WASHINGTON

2011-12 Autopsy Conference and Organ Review, VA Puget Sound Health Care System (weekly with medicine internists in August 2011, May 2012, and June 2012)
 2011-12 GI Conjoint Conference, Anatomic Pathology, University of Washington Medical Center (twice with anatomic pathology residents and fellows in October 2011 and January 2012)
 2012 Cytology Conference, Anatomic Pathology, University of Washington Medical Center (monthly with anatomic pathology residents and fellows in March and April 2012)
 2011-13 Blue Box Conference, Anatomic Pathology, University of Washington Medical Center (three times with anatomic pathology residents and fellows in October 2011, January 2012, and March 2013)
 2013-15 Call Rounds, Laboratory Medicine, University of Washington Medical Center (monthly with clinical pathology residents and fellows)
 2014 Test of the Week, Laboratory Medicine, University of Washington Medical Center (weekly

- with clinical pathology residents and fellows in June 2014)
- 2014 Molecular Virology Diagnostic Case Conference, Laboratory Medicine, University of Washington Medical Center (once with clinical pathology residents and fellows in April 2014)
- 2014 Interesting Surgical Cases, CellNetix Pathology (monthly with surgery residents and fellows in November and December 2014)
- 2014-15 Molecular Diagnosis Case Conference, Laboratory Medicine, University of Washington Medical Center (three times with clinical pathology residents and fellows in February 2014, March 2014, and May 2015)

MENTORING

RESIDENTS AND FELLOWS MENTORED AT UCSF MEDICAL CENTER

- 2016-18 Kwun Wah Wen, MD, PhD (pathology fellow) – Research and Career Mentorship
- 2016-18 Daniel Graham, MD (pathology fellow) – Research and Career Mentorship
- 2018-20 Hannah Lee, DO (pathology resident) – Research and Career Mentorship
- 2018-21 Christopher Bowman, MD, PhD (pathology fellow) – Research and Career Mentorship
- 2019-20 Rachael Fels-Elliott Daffolyn, MD, PhD (pathology fellow) – Research and Career Mentorship
- 2019-Present Ruth Zhang, MD (pathology fellow) – Research and Career Mentorship
- 2019-21 Nebil Mohammed, MD (pathology resident) – Research and Career Mentorship
- 2020-21 Nigar Khurram, MD (pathology fellow) – Research and Career Mentorship
- 2020-22 Eric Nguyen, MD, PhD (pathology resident) – Research and Career Mentorship
- 2020-Present Dorukhan Bahceci, MD (pathology resident) – Research and Career Mentorship
- 2021-23 Naoki Akanuma, MD, PhD (pathology fellow) – Research and Career Mentorship
- 2021-23 Fahire Goknur Akarca, MD (pathology resident) – Research and Career Mentorship
- 2021-Present Andrew Xiao, MD (pathology resident) – Research and Career Mentorship

FACULTY MENTORED AT UCSF MEDICAL CENTER

- 2018-Present Kwun Wah Wen, MD, PhD (Associate Professor, Department of Pathology, UCSF Medical Center) – Research and Career Mentorship

VISITING FACULTY MENTORED AT UCSF MEDICAL CENTER

- 2016-17 Jia-Huei Tsai, MD (National Taiwan University Hospital, Department of Pathology, Taipei, Taiwan) – Research Mentorship

VISITING RESIDENTS MENTORED AT UCSF MEDICAL CENTER

- 2018 Milim Kim, MD (Seoul National University Bundang Hospital, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2018 Sooyeon Lee, MD (Korea University Guro Hospital, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2018 HyunSik Bae, MD (Samsung Medical Center, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2019 Bokyoung Ahn, MD (Korea University Anam Hospital, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2019 Eojin Kim, MD (Korea University Anam Hospital, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2019 Hyun Jung Kwon, MD (Seoul National University Bundang Hospital, Department of Pathology, Seoul, South Korea) – Career Mentorship
- 2019 Sangjoon Choi, MD (Samsung Medical Center, Department of Pathology, Seoul, South Korea) – Career Mentorship

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

- 2003-04 Student Mentor for Future Medical Research Investigators Pre-MD/PhD Club, University of Illinois College of Medicine at Urbana-Champaign
- 2007-09 Peer Mentor Program, University of Illinois College of Medicine at Urbana-Champaign
- 2008-09 Student Mentor for Future Medical Research Investigators Pre-MD/PhD Club, University of Illinois College of Medicine at Urbana-Champaign

RESEARCH AND CREATIVE ACTIVITIES:

PEER REVIEWED PUBLICATIONS (* indicates the first, senior, and/or corresponding author)

1. Tian S*, **Choi WT***, Liu D, Pesavento J, Wang Y, An J, Sodroski JG, and Huang Z. Distinct Functional Sites for Human Immunodeficiency Virus Type 1 and Stromal Cell-Derived Factor-1 α on CXCR4 Transmembrane and Helical Domains (***These authors contributed equally to this work**). *Journal of Virology*. 2005. Oct;79(20):12667-12673. PMID: 16188969.
2. **Choi WT***, Tian S, Dong CZ, Kumar S, Liu D, Madani N, An J, Sodroski JG, and Huang Z. Unique Ligand Binding Sites on CXCR4 Probed by A Chemical Biology Approach: Implications for the Design of Selective Human Immunodeficiency Virus Type 1 Inhibitors. *Journal of Virology*. 2005. Dec;79(24):15398-15404. PMID: 16306611.
3. Dong CZ, Kumar S, **Choi WT**, Madani N, Tian S, An J, Sodroski JG, and Huang Z. Different Stereochemical Requirements for CXCR4 Binding and Signaling Functions as Revealed by an Anti-HIV, D-Amino Acid-Containing SMM-Chemokine Ligand. *Journal of Medicinal Chemistry*. 2005. Dec;48(25):7923-7924. PMID: 16335916.
4. Kumar S*, **Choi WT***, Dong CZ*, Madani N, Tian S, Liu D, Wang Y, Pesavento J, Wang J, Fan X, Yuan J, Fritzsche WR, An J, Sodroski JG, Richman DD, and Huang Z. SMM-Chemokines: A Class of Unnatural Synthetic Molecules as Chemical Probes of Chemokine Receptor Biology and Leads for Therapeutic Development (***These authors contributed equally to this work**). *Chemistry & Biology*. 2006. Jan;13(1):69-79. PMID: 16426973.
5. Wang J, Kumar S, **Choi WT**, Dong C, and Huang Z. Design and Synthesis of Novel Chemokine Analogs Derived from vMIP-II. *Protein Peptide Letters*. 2006. May;13(5):499-501. PMID: 16800805.
6. **Choi WT***, Kaul M, Kumar S, Wang J, Kumar IM, Dong CZ, An J, Lipton SA, and Huang Z. Neuronal Apoptotic Signaling Pathways Probed and Intervened by Synthetically and Modularly Modified (SMM) Chemokines. *Journal of Biological Chemistry*. 2007. Mar;282(10):7154-7163. PMID: 17218311.
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ADDITIONAL MANUSCRIPTS CURRENTLY UNDER REVIEW OR TO BE SUBMITTED

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BOOK CHAPTERS (* indicates the first, senior, and/or corresponding author)

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OTHER CREATIVE ACTIVITIES

1. **Development of UCSF pathology website:** As the director of UCSF Pathology Website and Web Strategy, I led the effort to develop a new UCSF Pathology website with a simple user interface, modern design, enhanced functionality, and accurate website content. The project started in July 2018, and we have successfully launched the public (pathology.ucsf.edu) and internal/intranet (pathology-internal.ucsf.edu) sites in November 2019. I continue to oversee all website-related issues, including keeping our website content updated and bringing new content in collaboration with other faculty in the department.
2. **DNA flow cytometry:** I have been working on the development of DNA flow cytometry using paraffin-embedded tissue for research and clinical uses (for both in-house and consultation cases in our GI/Liver pathology service).