**Mina LuQing Xu**

minaxu@post.harvard.edu

8/2017 - present **Yale-New Haven Hospital/Yale School of Medicine**

*Director of Hematopathology (2016-present)*

*Associate Professor of Pathology and Laboratory Medicine*

8/2011 - 2016 **Yale-New Haven Hospital/Yale School of Medicine**

*Assistant Professor of Pathology and Laboratory Medicine*

**Education:**

7/2010 - 6/2011 **Brigham and Women’s Hospital/Harvard Medical School**

*Hematopathology Fellow*

7/2006 - 6/2010 **Yale-New Haven Hospital/Yale School of Medicine**

*Anatomical and Clinical Pathology Resident*

*Chief Resident*, 2009 – 2010

9/2001 - 6/2006 **UCSF School of Medicine**, *M.D.*

*American Society of Hematology Trainee*, 2004 – 2005

9/1996 - 6/2000 **Harvard University**, *A.B. with Honors in Biology*

**Career/Academic Appointments:**

2004 - 2005 Research Fellow, Dr. John Aster, Hematopathology, Brigham and Women’s Hospital

2006 - 2009 Resident and Chief Resident, Anatomical and Clinical Pathology, Yale-New Haven Hospital, New Haven, CT

2010 - 2011 Postdoctoral Fellow in Hematopathology, Brigham and Women’s Hospital, Harvard Medical School

2011 - 2017 Assistant Professor, Dept. of Pathology and Dept. of Laboratory Medicine, Yale University School of Medicine, Yale-New Haven Hospital New Haven, CT

2017 - present Associate Professor, Dept. of Pathology and Dept. of Laboratory Medicine, Yale University School of Medicine, Yale-New Haven Hospital New Haven, CT

**Administrative Positions:**

2016 - present Director of Hematopathology, Yale University School of Medicine

2015 - 2016 Associate Director of Hematopathology, Yale University School of Medicine

2016 - present PI of Lymphoma Biobank, Yale Pathology

2017 - present Course Director, Hematopathology for 1st year medical students, Yale School of Medicine

**Board Certification:**

2010 American Board of Pathology, Anatomic and Clinical Pathology

2011 American College of Pathology, Hematopathology

**Professional Honors & Recognition**

**International/National/Regional**

2005 American Society of Hematology Trainee Grant

1996 Weizmann Institute of Science Scholarship

1995 Westinghouse Semifinalist

1995 National Merit Finalist

1994 Junior NSF Grant

**University**

2019 Yale Pathology Retreat Research Pitch Contest Winner

2007 Dr. Halina Goldstein Award for Outstanding Achievement in Autopsy Pathology

2000 Elizabeth Cary Agassiz Certificate of Merit for Academic Achievement

1996 - 2000 Harvard University Dean’s List

1996 Rotary Scholarship

**Grant/Clinical Trials History:**

**Current Grants**

Agency: NIH   
I.D.# U54AG076043-01  
Title: “Yale TMC for cellular senescence in lymphoid organs” SenNet Center Grant  
PI: Rong Fan, PhD  
Co-PI of Biospecimen core; Percent effort: 5% effort  
Total costs for project period: $6,500,000  
Project period: 09/30/21-8/31/26

Agency: NIH   
I.D.# U01CA260507-01  
Title: “Immunoserological assays for COVID19 management in patients with hematological malignancies”  
PI: Rong Fan, PhD  
Co-I Percent effort: 5% effort  
Total costs for project period: $500,000  
Project period: 09/30/20 – 09/30/25

**Past Grants**

Agency: NIH   
I.D.# 1R21AI154187-01   
Title: “Human B cell infiltration into allografts: mechanisms and molecules”  
PI: Jordan Pober, MD, PhD  
Co-PI Percent effort: 5%  
Total costs for project period: $150,000  
Project period: 07/01/20 – 06/30/22

Agency: DeLuca Fund

I.D.# Private donor

Title: “Immunophenotypic and functional assessments of human tumor vessels in the lymphoma microenvironment and tumor susceptibility to CAR-T therapy”

PI. Iris Isufi, MD

Co-PI Percent effort: no salary support

Total costs for project period: $50,000

Project period: 09/01/20-09/01/22

Agency: DeLuca Fund

I.D.# Private donor

Title: “Defining clonal heterogeneity and disease risk by targeted biopsies during treatment of multiple myeloma”

PI Natalia Neparidze, MD

Co-I Percent effort: no salary support

Total costs for project period: $100,000

Project period: 01/01/20-01/01/21

Agency: Boehringer Ingelheim Pharmaceuticals, Inc

I.D.# Clinical Trial

Title: “A Phase I-II randomized trial of a combination of Nintedanib/Placebo in combination with induction chemotherapy for patients with refractory or first relapse Acute Myeloid Leukemia”

PI: Thomas Prebet, MD, PhD

Co-I Percent effort: 5%

Total costs for project period: $497,219

Project period: 06/05/16 – 06/14/18

Agency: Yale Pathology   
I.D.# Chairman’s Challenge Award   
Title: “Vascular phenotyping and functional analysis in human B-cell lymphomas”   
PI: Mina Xu, MD  
PI Percent effort: no salary support

Total costs for project period: $10,000  
Project period: 10/12/2018 – 10/12/2020  
  
Agency: Leukemia Research Foundation   
I.D.# New Investigator Grant   
Title: “Genetic and environmental contributions to Mantle Cell Lymphoma Pathogenesis”  
PI: Samuel Katz, MD, PhD  
Co-I Percent effort: 5%  
Total costs for project period: $100,000  
Project period: 07/01/2014 – 12/31/2015

Agency: Yale Pathology   
I.D.# Chairman’s Challenge Award   
Title: “Immunohistochemical translation of genetic findings of whole exome sequencing”   
PI: Mina Xu, MD  
PI Percent effort: no salary support

Total costs for project period: $10,000  
Project period: 01/01/2014 – 01/01/15

Agency: Gilead Foundation   
I.D.# Yale Center for Genome Analysis  
Title: “Peripheral T-cell Lymphoma NOS”  
PI: Mina Xu, MD  
PI Percent effort: no salary support  
Total costs for project period: $100,000  
Project period: 06/15/2012 – 06/19/2014

Agency: St. Baldrick’s Foundation

I.D.# Infrastructure Grant

Title: “Identifying candidate genes involved in familial Hodgkin lymphoma”

PI: Gary Kupfer, MD, PhD

Co-I Percent effort: no salary support

Total costs for project period: $50,000

Project period: 01/01/2010 — 06/30/2011

**Scheduled Invited Speaking Engagements, Presentations, Symposia & Workshops:**

2023 MDS Workshop Presentation, Dubrovnik, Croatia

2023 Grand Rounds at Houston Methodist Hospital/Weill Medical College of Cornell University, TBA, Houston, TX

2023 Grand Rounds at Memorial Sloan Kettering Cancer Center, New York, NY

2023 Invited Speaker for CAP Hot Topics Lecture, CAP Annual Meeting

**Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:**

**International/National**

2023 USCAP Short Course “Roadmap to cytoses: Guide to navigating the elevated blood count” New Orleans, LA

2023 HemeReports: ASH22 Classification and Surveillance of Myeloid Diseases. Online Webinar

2022 International Workshop on Myelodysplastic Syndromes (iwMDS) for Clinical Oncologists/Hematologists: Expert Pathology Presenter for MDS Morphology Workshop “Mimics of MDS” Miami, FL

2022 Diagnostic Pathology CME “Diagnosing lymphoma on ever smaller needle biopsies” New York City, NY

2022 USCAP Short Course “Roadmap to cytoses: Guide to navigating the elevated blood count” Los Angeles, CA

2021 Grand Rounds: “IRF8 in monocytic leukemias: discovering a novel monoblast biomarker” UCLA, Los Angeles, CA

2021 Update in Hematopathology Faculty for Hawaii Hemepath Conference (Pathology Education Partners CME Series) Maui, HI:

“Myeloproliferative neoplasms and mimics”

“Practical approach to myelodysplastic syndrome: tackling big data integration”

“Defining the boundaries between classic Hodgkin lymphoma, primary mediastinal lymphoma and mediastinal gray zone lymphoma”

“Getting to correct: diagnosing lymphomas on ever smaller needle biopsies”

2021 National Lymphoma Rounds (Lymphoma Research Foundation) Presenter & Panelist: “Peripheral T-cell Lymphoma with Cutaneous Presentation” Virtual

2021 Pathology Department Speaker Series: “T-cell lymphoma update” Brown University, RI

2021 New York Lymphoma Rounds (Lymphoma Research Foundation) Presenter & Panelist: “T-cell Lymphoma” Virtual

2021 Lymphoma Research Foundation Virtual Lymphoma Rounds Panelist: “Challenging T-cell lymphoma diagnoses in the bone marrow” Virtual

2019 Grand Rounds: “From Mouse to Microscope: Biomarker discovery in Mantle Cell Lymphoma” Dalhousie University, Halifax, CANADA

2019 Advanced Science Workshop on Myeloid Malignancies: “Diagnostic and WHO Classification of Myeloid Malignancies” New Haven, CT

2019 USCAP Interactive Microscopy Course Faculty: “Terrible T-cell Tumors: focus on updates to the WHO” Washington, DC

2018 Grand Rounds: “Troubling T-cell tumors: genetic update on PTCL, NOS,” Peking University; Beijing Cancer Hospital, Beijing, CHINA

2018 Workshop on T-cell lymphoma Diagnosis and Subclassification, Peking University; Beijing Cancer Hospital, Beijing, CHINA

2018 Chinese American Pathologists Association (CAPA) Online Education Program: Hematopathology presentation

2018 USCAP Interactive Microscopy Course Faculty: “Terrible T-cell Tumors: focus on updates to the WHO” Vancouver, CA

2017 Pathology Update Course: “Molecular diagnostics in T-cell Lymphomas,” College of American Pathologists, Washington, DC

2017 Grand Rounds: “T-cell Dumpster Diving: discovering genetic abnormalities in Peripheral T-cell Lymphoma, NOS,” NYU, NY

2017 Hematopathology Case Conference Tutorial for Residents, NYU, NY

2016 Grand Rounds: “Emptying the wastebasket: Finding genetic aberrations in Peripheral T-cell Lymphomas, NOS,” Cornell University, NY

2016 Pathology Update Course: “Molecular diagnostics in T-cell Lymphomas,” Ohio State University, OH

2016 Grand Rounds: “Emptying the wastebasket: Finding genetic aberrations in Peripheral T-cell Lymphomas, NOS,” University of Michigan, MI

2015 “Overview of Peripheral T-cell Lymphomas and their Molecular Landscape,” New York Oncology Hematology, Albany, NY

2010 Grand Rounds: “Molecular Pathophysiology: T lymphoblastic leukemia,” University of Rochester, NY

2008 Hematopathology research talk: “A tail of notch in T lymphoblastic leukemia,” NIH, MD

**Regional**

2022 Yale Hematology/Oncology Research Seminar: “Discovering a Monoblast Marker” New Haven, CT

2017 Yale Therapeutic Radiology Grand Rounds: “Jewels in the Wastebasket: Molecular Findings in Peripheral T-cell Lymphoma, NOS” New Haven, CT

2016 “Molecular diagnostics in T-cell Lymphomas,” Science of Lymphoma and Associated Receptors, Hartford, CT

2016 “Molecular diagnostics in T-cell Lymphomas,” Science of Lymphoma and Associated Receptors, Fairfield, CT

2016 “Molecular diagnostics in T-cell Lymphomas,” Science of Lymphoma and Associated Receptors, Danbury Hospital, CT

2013 “Role of Plasmacytoid Dendritic Cells in Myeloid Neoplasms,” Connecticut Society for Hematopathology, New Haven, CT

**Intradepartmental**

2022 Yale Pathology Grand Rounds: “Discovering a Monoblast Marker” New Haven, CT

2020 Yale Pathology Grand Rounds: “From Mouse to Microscope: Biomarker discovery in Mantle Cell Lymphoma” New Haven, CT

**Peer-Reviewed Presentations & Symposia**

**International/National**

2023 Wong J, Roy S, McNiff J, **Xu ML**. IRF8 is a plasmacytoid dendritic cell marker that can differentiate subcutaneous panniculitis-like T-cell lymphoma from lupus erythematosus panniculitis. USCAP platform presentation, New Orleans, LA.

2023 **Xu ML**, Thakkar D, ABCG Consortium, Dave SS. Mutations in ASXL1 and/or TET2 identify a subset with worse outcomes in patients with blastic plasmacytoid dendritic cell neoplasms. USCAP platform presentation, New Orleans, LA.

2022Mata DA, Lee JK, Decker B, Shanmugam V, Marcus CB, Tukachinsky H, Schrock AB, Patel NR, Ross JS, Oxnard GR, Vergilio J, Mirza KM, Benhamida JK, **Xu ML**. Liquid biopsy-based next generation sequencing is an alternative to tissue molecular profiling of lymphoid, plasma cell and myeloid neoplasms. Oral presentation at American Society of Hematology, New Orleans, LA.

2022 Chapman J, Thakkar D, Alderuccio J, Kikkeri N, Ondrejka S, Hsi E, **Xu ML**, Paulson N, Koff J, Jaye D, Cohen J, Norgaard P, Breinholt M, Leeman-Neill R, Evans A, Behdad A, Galvez C, Czader M, Jiong Y, Dave S, Lossos I. Extranodal Marginal Zone Lymphomas show recurrent mutations in DNA repair genes, Cancer-associated proliferative signaling and NOTCH1 signaling pathways, regardless of anatomic site. Poster presentation at ASH, New Orleans, LA.

2022 Epperla N, Zaya A, Daniel L, Hughes M, Ayers E, Bock A, Nowakowski G, Mark G, Beckman A, Medeiros J, Kothari S, **Xu ML**, Torka P, Smith S, Kikkeri N, Bond, D, Saad M, Pandya K, Naik S, Kamdar M, Rubinstein P, Chaudhry A, Vose J, Nutsch H, Olszewski A. High-grade B-cell Lymphoma, not otherwise specified: central nervous system involvement, prophylaxis and recurrence risk in a multi-institutional series. Poster presentation at ASH, New Orleans, LA.

2022 Liu Y, Parker TL, Bar N, Dhodapkar M, Seropian S, **Xu ML**, Syam R, Gorshein E, Talsania A, Montanari F, Wei W, Haims A, Neparidze N. Enhanced global disease assessment with advanced imaging and targeted myeloma lesion biopsy highlights spatial heterogeneity and detects residual disease in multiple myeloma. Poster presentation at ASH, New Orleans, LA.

2022 Kalashnikov I, Karjalainen-Lindsberg M, Kovanen P, Dunkel J, Pasanen A, Kositsky R, Ondrejka SL, Hsi E, Evans A, Gang A, Czader M, Zhou J, **Xu ML**, Natkunam Y, Louissaint A, McCall C, Younes S, Chapman J, Amador C, Fedoriw Y, Chadburn A, Sojitra P, Behdad A, Naresh KN, Yin C, Goswami , Juskevicius R, Dave S. Nodular lymphocyte predominant Hodgkin lymphoma with splenic involvement is characterized by inflamed tumor microenvironment, high expression of checkpoint molecular gene-signature and adverse outcome. Poster presentation at ASH, New Orleans, LA.

2022 Liu Y, Parker TL, Bar N, Dhodapkar M, Seropian S, **Xu ML**, Witt D, Lischuk A, Chang V, Gorshein E, Talsania A, Montanari F, Wei W, Haims A, Neparidze N. Genomic sequencing of paired bone marrow and focal lesion biopsies of newly diagnosed multiple myeloma patients before and after induction therapy. Poster presentation at ASH, New Orleans, LA.

2022 Hrones M, Siddon A, Perincheri S, Foss F, **Xu ML**. Mature T-cell lymphomas with T-LBL characteristics. Poster presentation at CAP, New Orleans, LA.

2022 Mata DA, **Xu ML**, Shanmugam V, Tukachinsky H, Schrock AB, Ross JS, Williams A, Montesion M, Decker BJ, Vergilio J, Oxnard GR, Benhamida JK. Liquid-biopsy (LB)-based comprehensive genomic profiling (CGP) of circulating tumor DNA (ctDNA) for the evaluation of patients with myeloid neoplasms. Poster presentation at ASCO Annual Meeting, Chicago, IL.

2022 McQuaid D, Gauri P, Wang W, Katz SG, **Xu ML**. Global Assessment of IRF8 as a Novel Cancer Biomarker. Poster presentation at USCAP, Los Angeles, CA.

2022 McQuaid D, Katz SG, **Xu ML**. Novel Marker IRF8 Helps Differentiate Between CD30-Positive Large Cell Lymphomas. Poster presentation at USCAP, Los Angeles, CA.

2021 Zayac A, Arnason J, Sarit A, Balendra J, Bock A, Bond D, Bower M, Kamdar M, Yasmin K, Cerny, J, Issac D, Jagadeesh D, Kenkre V, Ollila T, Feldman T, El-Galaly TC, Bachanova V, Vose J, Evens A, Di M, Amitkumar M, **Xu ML**, Klein A, Lunning M, Phillips T, Kim S, Smith S, Sprague J, Alderuccio J, Olszewski A. High-grade B-cell lymphoma, not otherwise specified (HGBL, NOS): characteristics, treatment and outcomes from a multi-institutional series. Podium presentation at American Society of Hematology, Atlanta, GA.

2021 Love C, Pillai R, Ondrejka S, Bhagat G, Chadburn A, McKinney M, Koff J, Soliman D, Czader M, Louissant A, Li S, Ong C, Behdad A, Evens A, Natkunam Y, Chapman J, Fedoriw Y, Evans A, Goswami R, **Xu ML,** Naresh KN, Xiong B, Snowden A, Dave T, Thakkar D, Roth C, Dave S. The Atlas of Blood Cancer Genomes (ABCG) Project: A comprehensive molecular characterization of leukemias and lymphomas. Poster presentation at American Society of Hematology, Atlanta, GA.

2021 Matsumoto N, Ahmed A, Katz SG, Cohen P, **Xu ML**. The differential diagnosis of human herpesvirus type 8-associated large B-cell lymphomas. Presentation at SH/EAHP (Virtual)

2021 Ahmed A, **Xu ML**. Bone Marrow Workup: adult myelofibrotic myeloid neoplasms. Summary case presentation at SH/EAHP (Virtual)

2021 Li P, Biancon G, Patel T, Pan Z, Kothari S, Prebet T, Halene S, **Xu ML**. Clinicopathologic and comprehensive molecular analysis of mast cell leukemia with associated hematologic neoplasm. Poster presentation at USCAP (Virtual)

2021 Gisriel SD, **Xu ML**. Alpha-6 integrin and CNS metastasis of chemoresistant diffuse large B-cell lymphoma. Poster presentation at USCAP (Virtual)

2021 Hu Z, **Xu ML**, Yuan J, Peker D, Shao L, Rios A, Medeiros LJ, Hu S. T-Cell Prolymphocytic Leukemia (T-PLL) with t(X;14)(q28; q11.2): A Report of 17. Cases Poster presentation at USCAP (Virtual)

2021 Gisriel SD, Yuan J, Chen X, Wu X, McCracken J, Chen M, Paulson N, Wang E, **Xu ML**, Pan Z. Human herpesvirus 8 (HHV8)-negative effusion-based large B-cell lymphoma: a multicenter clinicopathologic study of 42 cases and review of the literature. Poster presentation at USCAP (Virtual)

2021 Gisriel SD, Yuan J, Chen X, Wu X, McCracken J, Chen M, Paulson N, Wang E, **Xu ML**, Pan Z. Diffuse large B-cell lymphoma with concurrent or subsequent lymphomatous effusion is associated with frequent MYC gene rearrangement and dismal prognosis. Poster presentation at USCAP (Virtual)

2020 Browning S, Parker T, Bar N, Anderson T, Dhodapkar M, Seropian S, Lee A, Prebet T, Gorshein E, Talsania A, Kidwai W, **Xu ML**, Chang V, Haims A, Neparidze N. Advanced imaging and targeted myeloma lesion biopsies to enhance global response assessment and evaluate spatial heterogeneity in multiple myeloma. Poster presentation at American Society of Hematology, San Diego, CA (Virtual)

2020 Kumar D, **Xu ML**. EBV-positive T-NK lymphoproliferative disorders with gamma/delta T-cell receptor expression. Oral presentation at New York Hematopathology Group Conference, New York, NY. (Virtual)

2020 Gu S, **Xu ML**, Pan Z. Pure extranodal presentation of primary effusion lymphomas. The twilight zone in myeloid neoplasms. Oral presentation at New York Hematopathology Group Conference, New York, NY. (Virtual)

2020 Ahmed A, Nguyen D, **Xu ML**. Risk of CNS progression in diffuse large B-cell lymphoma: site-specificity and mechanism of action. Poster presentation at USCAP, Los Angeles, CA.

2020 Paulson N, Pober J, **Xu ML**. Quantitative microvascular phenotyping of human B-cell lymphomas. Poster presentation at USCAP, Los Angeles, CA.

2020 Matsumoto N, Wang J, Shen Q, Chen X, Kim Y, Zuppan C, Chang C, **Xu ML**, Pan Z. Mast cell sarcoma: report of 5 cases with review of the literature. Poster presentation at USCAP, Los Angeles, CA.

2020 Weinberg O, Chisholm K, Ok C, Fedoriw Y, Mason E, Moser K, Bhattacharya S, **Xu ML**, Bagg A, George T, Wang S, Arber D, Hasserjian R. Clinical, immunophenotypic and genomic findings of NK-lymphoblastic leukemia. Poster presentation at USCAP, Los Angeles, CA.

2020 Ahmed F, Yuan J, Li P, **Xu ML**, Rimm D, Pan Z. Assessment of Ki67 proliferation index in mantle cell lymphoma with digital image analysis. Poster presentation at USCAP, Los Angeles, CA.

2020 Li, P, Yuan J, Ahmed F, Fu K, **Xu ML**, Rimm D, Pan Z. High counts of CD68+ and CD163+ macrophages in mantle cell lymphoma are associated with inferior prognosis. Poster presentation at USCAP, Los Angeles, CA.

2019 Chandhok NS, Huntington S, Isufi I, Gowda L, **Xu ML**, Bar N, Seropian S, Foss F. Peripheral blood involvement by flow cytometry as a prognostic factor in aggressive T-cell lymphomas following autologous stem cell transplantation. Poster presentation at American Society of Hematology, Orlando, FL.

2019 Ma J, Nie J, Inghirami G, Eng K, Elemento O, Au-Yeung R, Shen Y, Srivastava G, Gong J, **Xu ML**, Tan LH, Tam W. Heterogeneous genetic alterations and novel pathogenic pathways in relapsed DLBCL revealed by whole exome sequencing. Poster presentation at American Society of Hematology, Orlando, FL.

2019 Ahmed A, **Xu ML**. The twilight zone in myeloid neoplasms. Oral presentation at New York Hematopathology Group Conference, New York, NY.

2019 Maracaja D, Puthenpura V, Pels S, O’Malley D, Sklar J, Finberg K, **Xu ML**. EBV-positive primary large B-cell lymphoma: highlighting the role of XPO1 mutation in the diagnosis of mediastinal lymphomas. Poster presentation at American Society of Clinical Pathology (ASCP) Annual Meeting; Phoenix, AZ.

2019 Maracaja D, **Xu ML**. In the ring with systemic mastocytosis: a case of quickly evolving eosinophilia. Summary case presentation at SH/EAHP, Phoenix, AZ.

2019 Paulson N, **Xu ML**. Wrestling with mast cells in PDGFRA: who’s the heavyweight? Summary case presentation at SH/EAHP, Phoenix, AZ.

2019 Irshaid L, Weinberger E, Garritano J, Patsenker J, Kluger Y, Katz SG, **Xu ML**. Histopathologic and machine deep learning criteria to predict lymphoma transformation in bone marrow biopsies. Poster presentation at USCAP, Washington, DC.

2019 Patel SS, Ho C, Sadign S, Bagg A, Geyer J, **Xu ML**, Mason EF, Morgan EA, Steensma DP, Winer E, Hasserjian R, Weinberg O. Clinicopathologic and genetic characterization of non-AML NPM1-mutated myeloid neoplasms. Oral presentation at USCAP, Washington, DC.

2019 Gong, Z, Chen M, **Xu ML**, Cui W, Zhou T, Wang W, Medeiros J, Hu S. Philadelphia chromosome-negative “blast phase” of chronic myeloid leukemia. Poster presentation at USCAP, Washington, DC.

2019 Wang J, Katz SG, Morgan EA, Yang DT, Pan X, **Xu ML**. Pro-apoptotic BIM as a prognostic factor in mantle cell lymphoma. Poster presentation at USCAP, Washington, DC.

2019 Matsumoto NP, **Xu ML**, Gibson J. Paucity of plasma cells in the gut in patients following stem cell transplantation. Poster presentation at USCAP, Washington, DC.

2019 Chen P, O’Malley D, **Xu ML**. Clinicopathologic characteristics and novel biomarkers of aggressive B-cell lymphomas in the nasopharynx. Poster presentation at USCAP, Washington, DC.

2019 Panse G, **Xu ML**. Cutaneous involvement by multiple myeloma. Oral presentation at International Society of Dermatopathology, Washington, DC.

2018 Wang J, Katz S, Morgan E, Yang D, Pan X, **Xu ML**. Pro-apoptotic protein BIM as a prognostic factor in mantle cell lymphoma. Oral presentation at New York Hematopathology Group Conference, New York, NY.

2018 Maracaja D, Puthenpura V, Pels S, O’Malley D, Finberg K, Sklar J, **Xu ML**. Exportin some help: the role of XPO1 mutation in the diagnosis of EBV positive primary mediastinal large B-cell lymphoma. Oral presentation at New York Hematopathology Group Conference, New York, NY.

2018 Chen P, Yang Y, O’Malley D, **Xu ML**. Clinicopathologic characteristics and novel biomarkers of aggressive B-cell lymphomas in the nasopharynx. Poster presentation at EAHP, Edinburgh, Scotland.

2018 Kumar D, Toki M, Rimm D, **Xu ML**. Benign lymph node microenvironment is associated with response to immunotherapy. Poster presentation at USCAP, Vancouver, Canada.

2018 Chandler J, **Xu ML**, Hui P, Cai G. Diagnosis of lymphoproliferative disorders on CSF specimens-the utility of gene rearrangements in conjunction with cytologic evaluation. Poster presentation at USCAP, Vancouver, Canada.

2017 Kim T, Wang J, Sanmamed M, Zhang T, Halene S, Pillai M, Lu J, **Xu ML**, Zeidan A, Gore S, Dhodapkar M, Chen L. PD-1H (VISTA) induces immune evasion in acute myeloid leukemia. Poster presentation at American Society of Hematology, Atlanta, GA.

2017 Bailur JK, Mehta S, Zhang L, Neparidze N, Parker TL, Bar N, Anderson T, **Xu ML**, Dhodapkar K, Dhodapkar M. Early enrichment and subsequent dysfunction of marrow ILC subsets in monoclonal gammopathy: target for IMiD Therapy. Poster presentation at American Society of Hematology, Atlanta, GA.

2017 **Xu ML**. Genetics revealing the biology of acute leukemias: lymphoid and myeloid neoplasms with shared genetic abnormalities over time. Summary case presentation at SH/EAHP, Chicago, IL.

2017 Katz S, **Xu ML**. Genetic testing in the diagnosis of acute leukemias: sequencing for myeloid mutations in undifferentiated leukemias. Summary case presentation at SH/EAHP, Chicago, IL.

2017 Baraban E, Hu S, Hui P, Cooper D, Podoltsev N, **Xu ML**. Tissue based chimerism analysis enhances detection of donor derived neoplasia in allogeneic stem cell transplant patients. Poster presentation at USCAP, San Antonio, TX.

2017 Pelland K, Mathews S, Kamath A, Cohen PJ, Hudnall D, **Xu ML**. Dendritic markers aid in distinguishing mediastinal gray zone lymphoma from Classical Hodgkin Lymphoma and Primary Mediasinal Large B-cell Lymphoma. Poster presentation at USCAP, San Antonio, TX.

2016 Perincheri S, Goh G, Foss F, Lifton R, **Xu ML**. Loss of a novel tumor suppressor KLF9 identifies a subset of peripheral T-cell lymphomas, NOS with increased NOTCH1 expression. Poster presentation at USCAP, Seattle, WA.

2016 Ross J, **Xu ML**, Hui P, Humphrey PA, Adeniran A. Lymphomas of the urinary tract and genital organs: an institutional study of 50 cases. Poster presentation at USCAP, Seattle, WA.

2015 Verma R, Mai Z, **Xu ML**, Zhang L, Dhodapkar K, Dhodapkar M. Identification of a cereblon-independent protein degradation pathway in residual myeloma cells treated with immunomodulatory drugs. Oral presentation at American Society of Hematology, Orlando, FL.

2015 Song Y, Taylor A, Rongvaux A, Jiang T, Podolstev N, **Xu ML**, Neparidze N, Torres R, Barbarotta L, Balasubramanian K, Finberg K, Kluger Y, Flavell R, Halene S. Efficient engraftment and disease replication of myelodysplastic syndromes using a novel humanized mice model. Poster presentation at American Society of Hematology, Orlando, FL.

2015 Carey C, Gusenleitner D, Zhang X, Sohani A, Weinberg O, **Xu ML**, Yu H, Chen B, Woda B, Fu K, Monti S, Rodig S. Resolving the biological heterogeneity of B-cell lymphoma, unclassifiable, with features intermediate between DLBCL and BL (BCL-U) using quantitative profiles of oncogenic signaling networks. Poster presentation at American Society of Hematology, Orlando, FL.

2015 **Xu ML**. Lymphoproliferative disorders and mimics associated with primary (congenital) immunodeficiency: hysterectomy in a CVID patient. Case Presentation. Society for Haematopathology/European Association for Haematopathology Annual Workshop, Long Beach, CA.

2015 Song Y, Rongvaux A, Taylor A, Podoltsev N, **Xu ML**, Neparidze N, Torres R, Barbarotta L, Balasubramanian K, Finberg K, Flavell R, Halene S. Humanized mice afford efficient engraftment and disease replication of myelodysplastic syndromes. Oral presentation at International Symposium on Myelodysplastic Syndromes, Washington, DC.

2015 **Xu ML**, Acevedo-Gadea C, Seropian S, Katz S. CD30 Expression does not predict response to brentuximab vedotin. Poster presentation at USCAP, Boston, MA.

2015 **Xu ML**, Gibson J. Plasma cell paucity in the gut following stem cell transplant. Poster presentation at USCAP, Boston, MA.

2014 Fraser, J, Subtil A, Alpdogan O, Seropian S, Cooper D, **Xu ML**, Girardi M, Foss F. Allogeneic stem cell transplant for CD8+ cytotoxic and gamma-delta cutaneous T-cell lymphomas. Poster presentation at Society for Investigative Dermatology, Albuquerque, NM.

2014 Fraser J, Subtil A, Seropian S, Cooper D, **Xu ML**, Foss F. Cytotoxic and gamma-delta subtypes of peripheral T-cell lymphoma: a single center experience. Poster presentation at T-cell Lymphoma Forum, San Francisco, CA.

2013 Ho C, Yao X, Tian L, Li F, Podoltsev N, **Xu ML**. Marrow assessment for hemophagocytic lymphohistiocytosis demonstrates poor correlation with disease probability. Poster at USCAP, Baltimore, MD.

2013 Chen BJ, Ouyang J, **Xu ML**, Yu H, Fletcher CDM, Sun H, Shipp MA, Rodig SJ. Expression of the immunosuppressive molecules PD-L1 and Galectin-1 by EBV positive lymphoproliferative disorders: novel candidates for targeted immunotherapy. Oral presentation at USCAP, Baltimore, MD.

2012 Alomari A, Hui P, **Xu ML**. Composite peripheral T-cell lymphoma, not otherwise specified and B-cell small lymphocytic lymphoma presenting with hemophagocytic lymphohistiocytosis. Poster presentation at CAP, San Diego, CA.

2012 Chen BJ, **Xu ML**, Rodig, S. Expression of Galectin-1 by EBV positive lymphoproliferative disorders. Poster presentation at USCAP, Vancouver, Canada.

2008 **Xu ML**, Martel M, Schwartz P, Hui P. HER-2/neu receptor gene amplification and protein expression in endometrial cancers: A comprehensive tissue microarray study. Poster presentation at USCAP, Denver, CO.

2008 **Xu ML**, Bin Y, Carcangiu ML, Hui P. Epithelioid trophoblastic tumor: Comparative genomic hybridization and diagnostic DNA genotyping. Poster presentation at USCAP, Denver, CO.

2005 **Xu ML**, Chiang M, Lee W, Pear WS, Aster JC. Identification of a C-terminal negative regulatory sequence in NOTCH1 that influences signal strength and leukemogenic activity. Blood vol 106 no. 11 November 16, 2005. Oral presentation at American Society of Hematology, Atlanta, GA.

2005 Sanchez-Irizarry C, Malecki M, Lee W, **Xu ML**, Blacklow SC, Aster JC. Functional analysis of leukemia-associated mutations involving the heterodimerization domain of NOTCH1. Blood vol 106 no. 11 November 16, 2005. Poster presentation at American Society of Hematology, Atlanta, GA.

2005 Chiang MY, Hong S, Shestova O, Lee W, **Xu ML**, Pear WS, Aster JC. Synergistic induction of T cell acute lymphoblastic leukemia by functionally distinct mutations in NOTCH1. Blood vol 106 no. 11 November 16, 2005. Poster presentation at American Society of Hematology, Atlanta, GA.

1996 Mega MS, **Xu LQ**, Karaka TJ, et al. Standardization of MRI volumetric studies: Hippocampal atrophy predates clinical symptoms in individuals at risk for Alzheimer’s disease. Neurology, no.2 suppl vol 46 February 1996. Poster presentation at American Academy of Neurology, San Francisco, CA.

1996 Thompson PM, Mega MS, Moussai J, Zohoori S, **Xu LQ**, Goldkorn A, Khan AA, Coryell J, Small GW, Cummings J, Toga AW. 3D probabilistic atlas and average surface representation of the Alzheimer’s brain, with local variability and probability maps of ventricles and deep cortex. Poster presentation at Society for Neuroscience, Washington, DC.

**Regional**

2019 Schwaber E, Farhan M, D’Souza S, **Xu ML**, Nguyen K. Two for the price of one: simultaneous discovery of chronic myelomonocytic leukemia and multiple myeloma. Poster presentation at American College of Physicians (ACP) Meeting; Hartford, CT.

2019 Harigopal M, Yoon E, Patel N, **Xu M**, Manrai P. Incorporating flipped classroom in graduate medical education for pathology residents using a team-based approach. Poster presentation at Annual Yale Medical Education Fellowship Day, New Haven, CT.

2009 **Xu ML**, Abu-Alfa A, High WA, Kuo P, Cowper SE. Clinicopathological, microanalytical and physiological corroboration of NSF disease activity using inductively coupled plasma mass spectrometry and FDG-PET/CT imaging. Poster presentation at Annual Scientific Symposium on NSF and GBCA, New Haven, CT.

**Professional Service**

Journal Service

2021 - present Associate Editor, Frontiers in Oncology, Hematologic Malignancies Section

2021 - present Editor, Journal of Clinical and Translational Pathology

2020 - 2021 Editor, Frontiers in Oncology, special issue: Novel diagnostic tools and biomarkers in hematologic malignancies

Ad Hoc Reviewer

Archives of Pathology and Laboratory Medicine, Blood, Pediatric and Developmental Pathology, Journal of Clinical Pathology, Hematology Reports, European Journal of Haematology, Case Reports in Hematology, Clinical Case Reports, Neoplasia, FASEB, Blood Advances, Nature Communications, Haematologica, Journal of OncoTargets and Therapy, Journal of ImmunoTherapy of Cancer

**Service for Professional Organizations:**

2021 - present Leader, Hodgkin Lymphoma & Histiocytic/dendritic cell neoplasms disease group; International WHO sequencing project (Atlas of Blood Cancers - Genomics)

2021 - present Alliance for Clinical Trials in Oncology Circulating Tumor DNA Working Group

2020 - present Head of Hematopathology in Connecticut Society

2020 - present CAP Hematology/Clinical Microscopy Committee

*CAP TODAY* Q&A Responder for Hematology Questions

2020 - present Central Pathology Review Committee for CALGB 50801

2020 - 2022 ASCP Hematopathology Abstract Reviewer

2019 - present Pathology member of Alliance for Clinical Trials in Oncology (formerly Cancer and Leukemia Group B)

2019 - present Faculty Consultant for Kilimanjaro Christian Medical Center Telepathology: providing pro bono diagnostic consults for a large hospital in Tanzania

2019 - present Pure Marrow Advisory Board

2018 - present Seattle Genetics Pathology Advisory Board

2016 - present Seattle Genetics Non-Hodgkin Lymphoma Diagnostic Advisory Board

2011 - present Society for Hematopathology

2016- - 2016 - 2019 ASCP RISE/FISHE examination subcommittee

2007 - presentUnited States & Canadian Academy of Pathology

Ambassador (2016-2019)

Social Media Committee (2016-2017)

USCAP Abstract Reviewer (2016-2019)

**Yale University Service:**

***University Committees***

2023 - present Thesis committee member for Archibald Enninful in Biomedical Engineering

2023 - present Thesis committee member for Negin Farzad in Biomedical Engineering

2021 - present DeLuca Center Pilot Grant Review Committee

***Medical School Committees & Other Service***

2018 - present YSM Genes & Development: Course Director for Hematopathology/Malignant Hematology and Malignant Heme Content Leader

2018 - present Status of Women in Medicine:

* Speaker for Yale School of Medicine seminar

***Hospital and Departmental Committees***

2023 - present Director of Expert Consultation Practice, Yale Department of Pathology

2023 - present Pathology Research Pilot Grant Review Committee

2021 - present Residency Recruitment Committee

2021 - present Bone Marrow Biopsy Standard Operating Procedures Committee

2021 - present Chair of Search Committee, recruitment for Associate Professor of Hematopathology, Yale Pathology Department

2021 - present Search Committee, Director of Anatomic Pathology, Yale Pathology Department

2021 - present DeLuca Center Pilot Grant Review Committee

2021 - present Pathology Compensation Committee

2020 - present Search Committee, recruitment for senior scientist Joseph Madri Professorship

2020 - present Immunohistochemistry Laboratory Advisory Committee

2020 - 2021 Course Director for Hematopathology 101 yearlong course for Department of Internal Medicine and Hematology Division residents and fellows (monthly lectures)

2020 - present Management Team of Yale Department of Pathology

2019 - present Leukemia Clinical Practice Standardization Committee

2019 - 2020 Executive Team of Yale Department of Pathology

2019 - 2021 Search Committee, recruitment for Vice Chair of Molecular and Genomic Diagnostics, Department of Pathology and Laboratory Medicine

2015 - present Pathology Representative, NCCN Guidelines Institutional Review Committee for Acute Myeloid Leukemia, Chronic Lymphocytic Lymphoma, Non-Hodgkin Lymphoma, Hodgkin Lymphoma and Myeloproliferative Neoplasms

2017 - 2019 Search Committee, recruitment for Chief of Benign Hematology, Department of Internal Medicine, Section of Hematology

2017 - 2019 Search Committee, recruitment for Director of Lymphoma Program, Department of Internal Medicine, Section of Hematology

2017 - 2018 Chair of Search Committee, recruitment for Assistant Professor of Hematopathology, Yale Pathology Department

2016 - present Hematopathology ACGME Fellowship Program Evaluation Committee

2016 - 2018 Search Committee, Center for Aging recruitment for scientist in Cancer and Aging, Yale Pathology Department

2011 - 2014 Curriculum Committee, Yale Hematology/Oncology Fellowship: Hematopathology Rotation

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**Peer-Reviewed Original Manuscripts**

**(\* denotes last-author citations in which a student/resident is first author)**

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6. **Xu ML**, Bin Y, Carcangiu ML, Hui P. Epithelioid trophoblastic tumor: comparative genomic hybridization and diagnostic DNA genotyping. Modern Pathology 2009; 22: 232-8.
7. **Xu ML**, Martel M, Schwartz P, Hui P. HER-2/neu receptor gene status in endometrial carcinomas: A tissue microarray study. Histopathology 2010; 56: 269-73.
8. Varughese N, Duong A, Emre, S, **Xu ML**, Lee A. Venting the spleen. New England Journal of Medicine 2013; 369: 1357-63.
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10. Al-Omari A, Hui P, **Xu ML**. Composite peripheral T-cell lymphoma, not otherwise specified and B-cell small lymphocytic lymphoma presenting with hemophagocytic lymphohistiocytosis. International Journal of Surgical Pathology 2013; 21: 303-8. **\***
11. **Xu ML** and Cooper, D. Caught in transformation. Blood 2014; 124: 2749.
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14. **Xu M,** Acevedo-Gadea C, Seropian S, Katz SG. Expression of CD30 as a biomarker to predict response to brentuximab vedotin. Histopathology 2015; 69(1): 155-158.
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17. Munday WR, Kapur LH, **Xu M**, Zhang X. Russell body duodenitis with immunoglobulin kappa light chain restriction. World Journal of Gastrointestinal Endoscopy 2015; 7: 73-6.
18. Simmons NR, **Xu ML**, Tavassoli FA, Geisel J, Killelea B, Philpotts LE. A rare presentation of Rosai-Dorfman disease as a breast mass. Breast J 2016; 22(5):581-3.
19. Deng L, Xu-Monette ZY, Loghavi SN, Manyam GC, Xia Y, Visco C, Huh J, Zhang L, Zhai Q, Wang Y, Qiu L, Dybkaer K, Chiu A, Perry AM, Tzankov A, Rao H, Abramson J, Sohani AR, **Xu M**, Hsi ED, Zhu J, Ponzoni M, Wang S, Zhang M, Ferreri AJ, Parsons BM, Li Y, Piris MA, Medeiros LJ, Young KH. Primary testicular diffuse large B-cell lymphoma displays distinct clinical and biological features for treatment failure in rituximab era: A report from the International PTL Consortium. Leukemia 2016; 30(2):361-72.
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