

**CURRICULUM VITAE
OREGON HEALTH SCIENCES UNIVERSITY**

NAME **Guang Fan, MD, PhD**

DATE

Sept/13/2022

I. PRESENT POSITION AND ADDRESS

Academic Rank: **Professor**

Department: **Pathology and Clinical Laboratory Medicine**

Professional Address: **3181 SW Sam Jackson Park Road, Mail Code L471
Portland, Oregon 97239**

E-Mail Address: fang@ohsu.edu

II. EDUCATION

Undergraduate and Graduate (Include Year, Degree, and Institution):

| | | |
|-----------|-------------------|--|
| 1980-1986 | MD | Medical School, Beijing University, China |
| 1986-1989 | MS in Biophysics | Medical School, Beijing University, China |
| 1989-1992 | PhD in Physiology | Wayne State University, Detroit, Michigan, USA |

Postgraduate (Include Year, Degree, and Institution):

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|-----------|---|
| 1992-1996 | Research Postdoctoral Fellowship, Molecular Biology, University of Michigan, Ann Arbor, Michigan, USA |
| 1996-2000 | Resident, Anatomic and Clinical Pathology, University of Cincinnati, Cincinnati, Ohio, USA |
| 2000-2001 | Fellowship, Hematopathology, Indiana University, Indianapolis, Indiana, USA |

Leadership Training:

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| 2012 | Paths to Leadership offered by OHSU |
| 2014 | Laboratory Medical Direction Advanced Practical Pathology Program offered by College of American Pathologists. |
| 2021-2022 | APC Pathology Leadership Fellows Program offered by APC's Pathology Leadership Academies |

2022-2023 Executive Leadership in Health Care-Drexel University

Certification (Include Board, Number, Date, and Recertification):

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| Anatomic and Clinical Pathology Certification, American Board of Pathology | 9/11/2000 |
| Hematology certification, American Board of Pathology | 10/16/2001 |

Licenses (Include State, Date, Status, Number, and Renewal Date):

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|-------------|-----------|----------|-------------|
| Oregon: | 7/13/2001 | active | #MD23079 |
| Washington: | 5/2/2013 | active | #MD60349692 |
| Indiana: | 1999-2003 | inactive | #01050628A |

III. PROFESSIONAL EXPERIENCE

Academic (Include Year, Position, and Institution):

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|----------------|--|
| 7/2001-6/2008 | Assistant Professor, Department of Pathology, Oregon Health & Science University |
| 7/2008-6/2015 | Associate Professor, Department of Pathology, Oregon Health & Science University |
| 7/2015-present | Professor, Department of Pathology, Oregon Health & Science University |
| 10/2012-2022 | Honorary Professor, Soochow University, Suzhou, China |

Administrative (Include Year, Position, and Institution):

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|-----------------|---|
| 7/2001-6/2009 | Director of Hematology Laboratory, OHSU |
| 7/2004-1/2020 | Director of Hematopathology Fellowship Program, OHSU |
| 7/2008-6/2022 | Director of Clinical Flow Cytometry Laboratory, OHSU |
| 7/2018-6/2022 | Associate Director of Clinical Laboratory, OHSU |
| 12/2019-present | Director of Hematopathology |
| 1/2020-11/2020 | Interim Director of Microbiology Laboratory |
| 3/2020-present | Director for Beaverton Clinic PPM laboratory testing |
| 7/2022-present | Director of Clinical Laboratory, OHSU |
| 9/2022-Present | Interim Chair of Department of Pathology and Clinical Laboratory Medicine |

IV. Honors and Awards:

1. Best research presentation as a postdoctoral fellow at University of Michigan Internal Medicine Research Day, 1995
2. Best research presentation finalist as a resident at American Society of Clinical Pathology Annual Meeting, 1999.
3. Laboratory Medicine Teaching Award, Department of Pathology, Oregon Health & Science University, 2002.
4. Laboratory Medicine Teaching Award, Department of Pathology, Oregon Health & Science University, 2012
5. Distinguished and Outstanding CAP inspector, College of American Pathologists, Laboratory

- Accreditation Program, 2012
6. Distinguished and Outstanding CAP inspector, College of American Pathologists, Laboratory Accreditation Program, 2013
 7. Exceptional mentor nominated by The MD Class of 2014, Oregon Health & Science University
 8. Nominated for distinguished Abstract award for AACC 2015 annual meeting as senior author. First author, Juan Ma, my mentee.
 9. Received Berend Houwen Travel Award at XXVIIIth International Symposium on Technological Innovations in Laboratory Hematology, 2015 as senior author. First author, Juan Ma, my mentee.
 10. Distinguished and Outstanding CAP inspector 2016
 11. Distinguished and Outstanding CAP inspector 2017
 12. Distinguished and Outstanding CAP inspector 2018
 13. Laboratory Medicine Teaching Award, Department of Pathology, Oregon Health & Science University, 2019
 14. Distinguished and Outstanding CAP inspector 2019
 15. CAP Distinguished Service Award 2020
 16. Tyler Yeager, Sophia Wang, Alan Wang and Guang Fan: The Evaluation of Artificial Intelligence (AI) Flow Data Analysis for Diagnosing Immunologic Disorders and Monitoring Immune Status. 2022 AACC annual meeting at Chicago. Awarded 2nd place for the 2022 AACC Industry Division Poster competition
 17. Zhengchun Lu, Guang Fan,Donna Hansel: Community-based SARS-CoV-2 testing using saliva or nasopharyngeal swabs to compare efficacy of weekly COVID-19 screening to wastewater SARS-CoV-2 signals. 2022 AACC annual meeting at Chicago. been awarded 1st Place for the Health Access and Equity Division Outstanding Research Award in the 2022 AACC Annual Meeting.

V. SCHOLARSHIP

Area(s) of Research/Scholarly Interest:

My research has been focused on the identification of biologic markers of diagnostic, prognostic and therapeutic importance in hematologic malignancy using flow cytometry and Next Generation Sequencing (NGS). Currently, I am exploring AI application in flow cytometry analysis. I also collaborate with numerous investigators within and outside OHSU on studies related to lymphoma and leukemia.

Research Grants and Collaborations:

Active Grants/Contracts and Collaborations

1. Co-Investigator (PI, Jennifer Saultz): STUDY00018917: Retrospective Analysis Of Immune Profile Changes In Hematological Malignancies and Patient Outcomes. OHSU Knight foundation 2018 - present
2. Co-Investigator (PI, Linda Stork): IRB00001255: AALL03B1: Classification of Acute Lymphoblastic Leukemia. Children's Oncology Group: 2011-present
3. Co-Investigator (PI, Brian Druker): IRB00004422: Pathogenesis of Acute Leukemia, Lymphoproliferative Disorders, and Myeloproliferative Disorders. Leukemia & Lymphoma

- Society. 2013-present
4. Co-Investigator (PI, Edward Neuwelt):STUDY00016709: The use of perfusion MRI using ferumoxytol and small molecular weight gadolinium (Gd) agents to assess response to pembrolizumab in brain metastases and systemic lesions in NSCLC: A comparison of imaging modalities to address brain metastases, pseudo progression and systemic lesion tumor flare (neuro-check pilot). Merck & Co. 2017-present
 5. Co-Investigator (PI, Edward Neuwelt): STUDY00016046: Response Assessment to Pembrolizumab with Standard of Care Therapy in Oligometastatic Brain Tumors from Melanoma, and Glioblastoma Using Ferumoxytol Steady State Imaging– A Pilot Study. Merck & Co. 2017-present
 6. Co-Investigator (PI-Tania Vu) Molecular Digital Cyto Imaging for Leukemia Drug Screening. R 01 CA222095-4. 6/2020-present
 7. Co-Investigator (PI, Donna Hansel): STUDY00022151: Community-based SARS-CoV-2 testing using saliva or NP swabs to compare efficacy of weekly COVID-19 screening to wastewater SARS-CoV-2 signals. OHSU Foundation 9/2020-present
 8. Co-Investigator (PI, William Messer): STUDY00021230: The human immune response during and following acute viral infections with novel and emerging viruses. NIH 3/2/2020-present
 9. Principle Investigator: STUDY00022165Validation of AI-assisted Flow-cytometry Diagnosis. DeepCyto LLC 11/2020-present
 10. Co-PI (Co-PI-Donna Hansel): OHSU-OHA contract for SARS-CoV-2 Sequencing. 5/2021-April 2022.
 11. Co-investigator (PI-Donna Hansel): OHSU-OHA contract for K-12 back to school SARS-CoV-2 testing. 8/2021-present

Inactive Grants/Contracts and Completed Collaborations

1. Principal investigator; Sponsor: Oregon MRF. Discovery of Prognostic Markers in Follicular Lymphoma. 2003-2004.
2. Principal investigator; Sponsor: Friends of Doernbecher Foundation. Monitoring and Preventing Central Nervous System Involvement by Acute Lymphoblastic Leukemia. 2003-2004.
3. Co-investigator (PI, Hua Lu); Sponsor: NIH. The Role of SSP1 in Mitosis and Tumorigenesis and the Role of P53 in Cancer Cell Survival. 2002-2006. Funded by NIH CA095441 and CA93614.
4. Co-investigator (PI, Rita Braziel); Sponsor: GeneLogic. Gene Expression Monitoring by Gene Chip Microarray in Patients with Lymphoma and Leukemia. 2003-2006.
5. Co-investigator (PI, Rosalie Sears); Sponsors: NCI. Cellular Mechanisms Controlling Myc-Protein Stability and Phosphorylation Sites That Regulate c-Myc Stability and Oncogenic Potential. NIH R01 CA100855 2004-2008.
6. Co-investigator (PI, Zhengfeng Zhou); Sponsor: NIH. The molecular mechanism of human inherited long QT syndrome (LQTS). NIH HL68854, 2004-2010.
7. Co-investigator (PI, Elliot Epner); Sponsor: NCI. Deregulation of cyclins in mantle cell lymphoma and multiple myeloma. 2005-2009. NIH DK56798.
8. Co-investigator (PI, Rosalie Sears); Sponsor: Leukemia and Lymphoma Society. A Novel Mechanism of c-Myc protein in Some Lymphoblastic Leukemia. 2005- 2010. Leukemia and Lymphoma Society (Award 82325) and the Pilot study fund from Knight Cancer Institute.
9. Co-investigator (PI, Linda Stork for OHSU section); Sponsor: NCI/COG. Classification of Acute

- Lymphoblastic leukemia, AALL03B1 Children's Oncology Group (COG) clinical trial 2005-2014.
10. Principal investigator; Sponsor: OHSU Clinical Laboratory. Early Detection of Childhood CNS Acute Lymphoblastic Leukemia in Cerebrospinal Fluid using Liquid Chromatography-Mass Spectrometry. 0 Funded by the OHSU Hospital, 2006.
 11. Co-investigator (PI, Richard Press for OHSU site); Sponsor: NCI. Development and Optimization of an Assay for Detection of Somatic Mutations of IDH1 and IDH2, RFP No. ST11-205. 2012-2013.
 12. Co-investigator (PI, Stephen Spurgeon); Sponsor: SBI Biotech (Therodex). Phase I study of GNKG168 Administred by Intravenous Infusion in Patients with Relapsed or Refractory B-cell Chronic Lymphocytic Leukemia (B-CLL).2011-2014.
 13. Co-investigator (PI, Marc Loriaux); Sponsor: NCI. A phase II pilot study of Kinase Inhibition in Relapsed Refractory Acute Leukemia: Using a Comprehensive in Vitro Kinase Inhibitor Panel to Select Individualized, Targeted Therapies. 2011-2014.
 14. Principal investigator; Sponsor: Theradex: Lymphocyte Reconstitution-Activation 8 Color Surface Marker Panel. 2011-2015.
 15. Co-investigator (PI, Emma Scott); Sponsor: OHSU. Multiple Myeloma and Lymphoma: Clinical Characteristics, Pathologic features, and Outcomes. 2012-2015.
 16. Co-investigator (PI, Laurel Newell); Sponsors: Oregon MRF and University of British Columbia.
 17. Role. Sponsor. Angiogenic Hormones in Post-Hematopoietic Cell Transplant (HCT) Immune Response. 2012-2015.
 18. Co-investigator (PI, Catherine Leclair); Sponsor: National Vulvodynia Association. Novel Insights into Chronic Vestibulitis using Flow Cytometry and Genetic Analysis. 2012-2015.
 19. Co-investigator (PI, Wei Huang); Sponsor OHSU. MRI Assessment of Leukemia Response to Therapy. 2012-2015.
 20. Co-investigator (PI, Rita Braziel for OHSU section); Sponsor: NCI. Molecular Signature to Improve Diagnosis and Outcome Prediction in Non-Hodgkin Lymphoma, 2011-2016. My role was to identify and subtype study cases for gene expression profiling.
 21. Co-Investigator PI, Rosalie Pelz): IRB00003330: A novel mechanism controlling the oncogenic accumulation of c-Myc protein in human cancer. 2005-2016
 22. Co-PI (PI, Steve Kazmierczak): STUDY00021671. COVID-19 Real-Time PCR for Ubiquitome Liberty-16 system 3/2020-8/2020
 23. Co-Investigator (PI, Phil Raess): Study00020916: Digital microscopic analysis of bone marrow aspirates and tissue: Scopio Labs Ltd 12/2019-10/ 2020

Publications/Creative Work:

Peer-Reviewed Journal Articles

1. **Guang Fan** and SL. Zhao: Studies on the relationship between zinc absorption micro constant K21/K12 ratio and absorption rate in a zinc absorption kinetic model of rat jejunum. *Acta Biophys Sinica* 1987; 3:55-59
2. Guo H. Zhang, GS Ye and **Guang Fan**: Effect of vitamin D on the zinc level of plasma, liver, kidney testis, prostate and tibia in rats. *Acta Nutr. Sinica* 1987; 9:317-322
3. Guo H. Zhang and **Guang Fan**: Effect of insulin on kinetics of zinc absorption of jejunum and ileum in the rate. *J. Chin. Physiol.* 1987; 3: 274-278

4. Guo H. Zhang, GS Y, **Guang Fan**, SL Zhao: Effect of testosterone propionate and diethylstilbestrol on the kinetics of zinc absorption in jejunum and ileum of rats. *Chin. J. Physiol. Sci.* 1987; 3:297 – 303
5. **Guang Fan** and Ben J. Wu: Influence of hypoxia on the calcium influx and efflux in neuron of mice. *J. Beijing Med. Uni.* 1989; 20:53-58
6. **Guang Fan** and Ben J. Wu: Influence of hypoxia on the fluidity of neuron cell membrane in mice. *Acta Biophys Sinica* 1989; 271-75
7. **Guang Fan** and James A. Rillema: Effect of a tyrosine kinase inhibitor, genistein, on the actions of prolactin in cultured mouse mammary tissues. *Mol. and Cell. Endocrinology*, 1992; 83:51-55
8. **Guang Fan** and James A. Rillema: Effects of a protein phosphatase inhibitor, okadaic acid, on the actions of prolactin in cultured mouse mammary gland explants. *Proc. Soc. Exp. Biol. Med.* 1993; 203:501-504
9. **Guang Fan** and James A. Rillema: Prolactin stimulation of protein kinase C in isolate mouse mammary gland nuclei. *Horm. Metab. Res* 1993; 25:264-268
10. **Guang Fan** and James A. Rillema: Possible role of tyrosine kinases in the prolactin stimulation of cell division in Nb2 node lymphoma cells. *Horm. Metab. Res.* 1993; 25:256-258
11. **Guang Fan** and James A Rillema: Temporal effects of prolactin on casein kinase activity, casein synthesis and casein mRNA accumulation in mouse mammary gland explants. *Horm. Metab.Res.*1994; 26:367-370
12. Lawrence B. Holzman, Steven E. Merritt, and **Guang Fan**: Identification, molecular cloning, and characterization of dual leucine zipper bearing kinase. A novel serine/threonine protein kinase that defines a second subfamily of mixed lineage kinases *J. Biol. Chem.* 1995; 269:30808-30817
13. **Guang Fan**, Steven D. Merritt, Lawrence B Holzman: Dual leucine zipper-bearing (DLK) activates p46SAPK and p38MAPK but not ERK2. *J. Bio.Chem.* 1996, 271:24788-24793
14. Mathias Kretzler, **Guang Fan**, Demian Rose, Lawrence B. Holzman: Novel mouse embryonic renal marker gene products differentially expressed during kidney Development. *Am. J. Physio.*1996, 271:770-777
15. Marina Mata, **Guang Fan**, Lawrence B Holzman: Characterization of dual leucine zipper-bearing kinase, a mixed lineage kinase present in synaptic terminals whose phosphorylation state is regulated by membrane depolarization via calcineurin. *J. Bio. Chem.* 1996, 271:16888-16896
16. **Guang Fan**, Carmilita Alvares, Harold R Schumacher: Quantitative and qualitative bone marrow analysis using the Abbott Cell-Dyn 4000 hematology analyzer. *Laboratory Hematology* 1999, 5:45-51
17. **Guang Fan** and Jose Mira: A case report: leiomyoma in the ureter. *Arch Pathol Lab Med.* 2000, 124:302-303
18. **Guang Fan**, Patricia Kotylo, Richard Neiman, and Rita M Braziel: Comparison of fascin expression in anaplastic large cell lymphoma and Hodgkin's disease. *Am J Clin Pathol* 2003; 119:199-204
19. James Huang, **Guang Fan**, Yanping Zhong, Ken Gatter, Rita M Braziel, Gary Gross, and Antony Bakke: Diagnostic usefulness of aberrant CD22 expression in differentiating neoplastic cells of B-cell chronic lymphoproliferative disorders from admixed benign B-cells in four color multiparameter flow cytometry. *American Journal of Clinical Pathology* 2005;123 (6): 826-832
20. **Guang Fan**, Michael Molstad, Rita Braziel, Melissa Standley, James Huang, William Rodgers, and Srinivasa Nagalla. Proteomic Profiling of mature CD10-positive B-cell lymphomas. *Am J Clin Pathol.* 2005; 124(6):920-9
21. Suman Malempati, **Guang Fan**, Yasmine Akkari, Melissa Cunningham, Susan Olson, and Rosalie

- Sears. Aberrant stabilization of c-Myc protein in lymphoblastic and myelogenous leukemia. *Leukemia* 2006; 20 (9):1572-81
22. YanPing Zhong, Antony C Bakke, **Guang Fan**, Rita M Braziel, Ken Gatter, Jose F Leis, Richard Maziarz, and James Huang. Drug resistance in B-cell chronic lymphocytic leukemia: Predictable by In Vitro evaluation with a multiparameter flow cytometric cytotoxicity assay. *Cytometry Part B: Clinical Cytometry* 2007; 72 (3):189-195
 23. Ted Laderas, Cory Bystrom, Debra McMillen, **Guang Fan**, and Shannon McWeeney: TandTRAQ: An open source tool for integrated protein identification and quantitation. *Bioinformatics*. *Bioinformatics*, 2007; 23(24):3394-3396
 24. Bill Chang, Linda Stork, and **Guang Fan**: A unique case of adolescent CD56-negative nasal extranodal NK/T-cell lymphoma. *Pediatric and Developmental Pathology*. 2008; 11(1):50-54
 25. Megan L. Troxell, Jennifer B. Dunlap, Anuja Mittalhenkle, Mona Ishag, **Guang Fan**, James Z. Huang, Ken Gatter, Dan M. Byrd, Devon Webster, Donald C. Houghton: Rejection versus posttransplantation lymphoproliferative disorder in a renal transplant recipient. *Amer J Kidney Dis*. 2008; 52(6):1174-1179
 26. Cristina Smith and **Guang Fan**: The Saga of Jak2 mutations and translocations in hematologic disorders: Pathogenesis, diagnostic & therapeutic prospects, and proposed revision of WHO diagnostic criteria for chronic myeloproliferative disorders. *Human Pathology*. 2008;39:795-810
 27. Yi-Hua Chen, Juehua Gao, **Guang Fan**, and LoAnn Peterson: Nuclear expression of Sox11 is highly associated with mantle cell lymphoma but not dependent on t(11;14)(q13;q32) translocation. *Modern Pathology*. 2010; 23(1):105-112
 28. Katalin Kelemen, Ken Gatter, Rita Braziel, and **Guang Fan**: Immunophenotypic variations of Burkitt lymphoma. *American Journal of Clinical Pathology* 2010;134(1):127-138
 29. Katalin Kelemen, Ken Gatter, Rita Braziel, and **Guang Fan**: Correlation of T-cell immunophenotype between skin biopsy and peripheral blood findings in mycosis fungoides. *American Journal of Clinical Pathology* 2010,134(5):739-748
 30. Jennifer Dunlap, Katalin Kelemen, Nicky Leeborg, Rita Braziel, Susan Olson, Richard Press, James Huang, Ken Gatter, Marc Loriaux, and **Guang Fan**: Association of JAK2 mutation status and cytogenetic abnormalities in myeloproliferative neoplasms and myelodysplastic/myeloproliferative neoplasms. *American Journal of Clinical Pathology* 2011;135:709-719
 31. Katalin Kelemen, Kovacsovics Tibor, Rita M Braziel, Christopher Corless, Carol Beading, **Guang Fan**: RAS mutations in therapy-related acute myeloid leukemia after successful treatment of acute promyelocytic leukemia. *Leukemia and Lymphoma*. 2011;52(12):2237-2253
 32. Jennifer Dunlap, Carol Beadling, Andrea Warrick, Tanaya Neff, William H. Fleming, Marc Loriaux, Michael C. Heinrich, Tibor Kovacsovics, Katalin Kelemen, Nicky Leeborg, Ken Gatter, Rita M. Braziel, Richard Press, Christopher L. Corless, **Guang Fan**: Multiplex High-throughput Gene Mutation Analysis In Acute Myeloid Leukemia. *Human Pathology* 2012; 43: 2167–2176
 33. Tarunpreet Bains, Michael Heinrich, Marc Loriaux, Carol Beading, Andrea Warrick, Tanaya Neff, Jeffrey Tyner, Jennifer Dunlap, Christopher Corless, **Guang Fan**: Newly Described Activating JAK3 Mutations in T-cell Acute Lymphoblastic Leukemia. *Leukemia* 2012;26:2144-2146
 34. Nicky Leeborg and **Guang Fan**: Systemic EBV-positive T-cell lymphoproliferative Disease of Childhood. *Pathology Case Reviews*. 2012;Vol 17 (3):120-124
 35. Ellen Flatley and **Guang Fan**: Bone marrow involvement by Peripheral T-cell lymphoma, Not Otherwise Specified. *Pathology Case Reviews*. 2012;Vol 17(3):125-129

36. Jeffrey Tyner, Wayne Yang, Armand Bankhead II, **Guang Fan**, Luke Fletcher, Jade Bryant, Jason Glover, Bill Chang, Stephen Spurgeon, William Fleming, Tibor Kovacsovics, Jason Gotlib, Sepher OH, Michael Deininger, Christian Michel Zwaan, Monique Den Boer, Marry van den Heuvel-Eibrink, Thomas O'Hare, Brian Druker, Marc Loriaux: Kinase Pathway Dependence in Primary Human Leukemias Determined by Rapid Inhibitor Screening. *Cancer Research*. 2013;73:285-296
37. Mingying Zhang, Jun Lu, Xiaodong Wang, Jiannong Ceng, **Guang Fan**, Shaoyan Hu. Early Precursor T-lymphoblastic leukemia/lymphoma arising from Pediatric Chronic Myeloid Leukemia-Unusual lymph node blast crisis. *British Journal of Hematology* 2013;Vol 161(1): 136–139
38. Daphne Ang, **Guang Fan**, Tibor Kovacsovics, Nicky Leeborg, Marc Loriaux, Andrea Warrick, Carol Beadling, Susan Olson, Ken Gatter, Rita Braziel, Christopher Corless, Richard Press, Jennifer Dunlap. Utility of multiplex mutation analysis in the diagnosis of chronic myelomonocytic leukemia. *Journal of Leukemia* 1:114. doi: 10.4172/2329-6917.1000114 May 20, 2013
39. Michael C. Kruer, Tyler Jepperson, Sudeshna Dutta, Robert D. Steiner, Lynn Sanford, Mark Merkens, Barry S. Russman, Peter A. Blasco, **Guang Fan**, Jeffrey Pollock, Sarah Stanfield, Randall L. Woltje, Catherine Mooney, Doris Kretzschma, Coro Paisán-Ruiz, Henry Houlden: Mutations in gamma adducin lead to inherited cerebral palsy. *Annals of Neurology*. December 2013; 74(6), 805–814
40. Stephen D. Smith, Andy Chen, Stephen Spurgeon, Craig Okada, **Guang Fan**, Jennifer Dunlap, Rita Braziel and Richard Maziarsz: Diffuse Large B-cell Lymphoma in adults aged 75 years and older: a single institution analysis of cause-specific survival and prognostic factors. *Ther Adv Hematol*. Dec. 2013; 4(6):349-353
41. Huilan Yao, Devorah Goldman, Tamilla Nechiporuk, Sunita Kawane, Shannon K. McWeeney, Jeffrey Tyner, **Guang Fan**, Marc A. Kerenyi, Stuart H. Orkin, William H. Fleming and Gail Mandel: The co-repressor Rcor1 is essential for murine erythropoiesis. *Blood* 2014; 123:3175-3184
42. Christopher Cogle, Devorah Goldman, Gerard Madlambayan, Azzah Al Masri, Hilary Clark, Ronald Leon, Steven Asbaghi, Jeffrey Tyner, Jennifer Dunlap, **Guang Fan**, Tibor Kovacsovics, Qiuying Liu, Amy Meacham, Edward Scott, William H. Fleming: Functional integration of acute myeloid leukemia into vascular niche. *Leukemia*. 2014; 28, 1978-1987
43. Ellen Flatley, Elaine S. Jaffe, Helen Lawce, Susan Olson, **Guang Fan**. B-cell Aberrations of MYC are a common event in B-cell Prolymphocytic Leukemia. *American Journal of Clinical Pathology*. 2014;142 (3): 347-354
44. Huilan Yao, Devorah Goldman, **Guang Fan**, Gail Mandel, William H. Fleming. The co-repressor Rcor1 is essential for normal myeloerythroid lineage differentiation. *Stem Cells*, 2015; 3304-3314. DOI: 10.1002/stem.2086
45. Jonathan E Brammer, Nicky Leeborg, Eugene Carneal, **Guang Fan**, and James Gajewski: A Unique Case of Late Recurrent Langerhans Cell Histiocytosis and Postpartum Rheumatoid Arthritis Offers Insight into Possible Disease Triggers. *J Hematol Transfus* 3(1): 1034. 2015
46. Min Shi, Stephen Spurgeon, Richard Press, Susan Olson, and **Guang Fan**: MYD88 Mutation Analysis of a Rare Composite Chronic Lymphocyte Leukemia and Lymphoplasmacytic Lymphoma Using Flow Cytometry Cell Sorting. *Annul of Hematology*, Vol 94, Issue 11, 1941-1944. 2015. Ms. No. AOHE-D-15-00259R1
47. Erica Reinig, Fei Yang, Elie Traer, Ranjana Arora, Shari Brown, Rogan Rattray², Rita Braziel, **Guang Fan**, Richard Press MD, Jennifer Dunlap. Targeted Next Generation Sequencing in Myelodysplastic Syndrome and Chronic Myelomonocytic Leukemia Aids Diagnosis in Challenging Cases and Identifies Frequent Spliceosome Mutations in Transformed AML. *AJCP*.2016;0:1-10

48. Phil Raess, Michael Cascio, **Guang Fan**, Richard Press, Brian Druker, Diana Brewer, and Stephen Spurgeon: Concurrent STAT3, DNMT3A and TET2 mutations in T-LGL leukemia with molecularly distinct clonal hematopoiesis of indeterminate potential. *American Journal of Hematology*. 2016. DOI: 10.1002/ajh.24586
49. Philipp W. Raess, Stephen R. Moore, Michael J. Cascio, Jennifer Dunlap, **Guang Fan**, Ken Gatter, Susan B. Olson, Rita M. Braziel: MYC immunohistochemical and cytogenetic analysis are required for identification of clinically relevant aggressive B cell lymphoma subtypes. *Leukemia & Lymphoma*. 2018 Jun; 59(6):1391-1398. doi: 10.1080/10428194.2017.1370547.
50. Ma Juan, Jennifer Dunlap, Aleksandra Paliga, Elie Traer, Richard Press, and **Guang Fan**: The prognostic effect of FLT3-ITD on Acute Myeloid Leukemia with intermediate-risk cytogenetic group is significantly altered by the presence or absence of DNMT3A co-mutation. *Leukemia & Lymphoma*, 2017. DOI: 10.1080/10428194.2017.1397659
51. Min Xu, Karen Chisholm, **Guang Fan**, Anne Anne M Stevens, Joe Rutledge: Hematoxylin Bodies in Pediatric Bone Marrow Aspirates and their Utility in the Diagnosis of Systemic Lupus Erythematosus. *Pediatric and Developmental Pathology - First Published October 9, 2017*. journals.sagepub.com/doi/full/10.1177/1093526617734948
52. Andy I Chen, Jessica T. Leonard, Craig Y. Okada, Nathan D Gay, Kari Chansky, **Guang Fan**, Jennifer Dunlap, Philipp Rasess, Rita M. Braziel, Alex Stentz R. Outcomes of DA-EPOCH-R induction plus autologous transplant consolidation for double hit lymphoma. Accepted 12 Nov 2017, Published online: 03 Dec 2017. <https://doi.org/10.1080/10428194.2017.1406085>
53. Phil Raess, Michael Cascio, **Guang Fan**, Richard Press, Brian J. Druker and Stephen E. Spurgen: Concurrent STAT3, DNMT3A, and TET2 mutations in T-LGL leukemia with molecularly distinct clonal hematopoiesis of indeterminate potential. *American Journal of Hematology*, Vol.92, No. 1, 2017. <https://doi.org/10.1002/ajh.24586>
54. Mihai Merzianu, Alan Groman, **Guang Fan**, etc: Trends in Bone Marrow Sampling and Core Biopsy Adequacy in the United States and Canada. A Multicenter Study. *Am J Clin Pathol*. 2018 Oct 1;150 (5):393-405. doi: 10.1093/ajcp/aqy066.
55. Richard Press, Garrett Eickelberg, Allison Froman, Fei Yang, Alex Stentz, Ellen Flatley, **Guang Fan**, Jeong Lim, Gabrielle Meyers, Richard Maziarz, and Rachel Cook: NGS-Defined Minimal Residual Disease Before Stem Cell Transplantation Predicts Acute Myeloid Leukemia Relapse. *American Journal of Hematology*. *American Journal of Hematology*. 23 May 2019. Volume 94, Issue 8. P902-912. DOI: 10.1002/ajh.25514
56. Jennifer Dunlap, Jessica Leonard, Phil Raess, **Guang Fan**, Elie Traer: The combination of NPM1, DNMT3A and IDH1/2 mutations increases risk of relapse and leads to inferior overall survival in acute myeloid leukemia. *Am J Hematol*. 2019 Aug; 94(8):913-920. DOI: 10.1002/ajh.25517
57. Abigail Wills; **Guang Fan**; Kevin White; Craig Okada; Edward Kim: Primary cutaneous Epstein-Barr virus-positive diffuse large B-cell lymphoma (DLBCL) in a patient taking fingolimod. *Dermatology Online Journal*. 2019 Issue 9, Volume 25. 2019 Sep 15;25(9):13030/qt2g62q2fq.
58. Anupriya Agarwal, William J. Bolosky, David B. Wilson, Christopher A. Eide, Susan B. Olson, **Guang Fan**, and Brian J. Druker: Differentiation of leukemic blasts is not completely blocked in acute myeloid leukemia. *PNAS* Dec.2019,116 (49) 24593-24599; <https://doi.org/10.1073/pnas.1904091116>
59. Brian Werstein, Jennifer Dunlap, Michael J. Cascio, Robert S. Ohgami, **Guang Fan**, and Richard Press Philipp W. Raess: Molecular discordance between myeloid sarcomas and concurrent bone

- marrows occurs in actionable genes and is associated with worse overall survival. *The Journal of Molecular Diagnostics*. 2020 Mar;22(3):338-345. doi: 10.1016/j.jmoldx.2019.11.004
60. Adam J. Lamble¹, Yoko Kosaka, Lauren Brady, Ted Laderas, Allie Maffit¹, Weiwei Wang, Andy Kaempf, Jennifer Saultz, Motomi Mori, David Soong, Clare V. LeFave, Fei Huang, Homer Adams III³, Marc Loriaux, Cristina E. Tognon, Pierrette Lo, Brian J. Druker, Jeffrey W. Tyner, **Guang Fan**, Shannon McWeeney, and Evan F. Lind: Reversible suppression of T cell function in the bone marrow microenvironment of acute myeloid leukemia. 2020 Jun 23;117(25):14331-14341. doi: 10.1073/pnas.1916206117
 61. Lauren M. Raymond, Tracy Funk, Rita M. Braziel, **Guang Fan**, Ken Gatter, Marc Loriaux, Jennifer Dunlap, Philipp W. Raess: Mast cell sarcoma with concurrent mast cell leukemia. *British Journal of Haematology*, 2020 May;189(4):e160-e164. doi: 10.1111/bjh.16581. Epub 2020 Apr 3.
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 65. Weiwei Wang, Haibo Li, Lihua Zhang, Wenli Jiang, Lisong Shen, **Guang Fan**: Clinical applications of monitoring immune status with 90 immune cell subsets in human whole blood by 10-color flow cytometry". *International Journal of Laboratory Hematology*. April 2021 <https://doi.org/10.1111/ijlh.13541>
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 67. Todd William, Phil Raess, Elie Traer, **Guang Fan**, Jennifer Dunlap: Engrafted donor-derived clonal hematopoiesis after allogeneic hematopoietic cell transplantation is associated with chronic GVHD requiring immunosuppressive therapy, but no adverse impact on OS or relapse Transplantation and Cellular Therapy. *Transplantation and Cellular Therapy*. April 2021
 68. Maedeh Mohebnasab, Francisco Tria, Sunny Kim, Craig Okada, Jessica Davis, **Guang Fan**: Recurrent Fibrin Associated Diffuse Large B-Cell lymphoma: A Case Report. *Human Pathology Case Reports*; June 2021 accepted <https://doi.org/10.1016/j.ehpc.2021.200538>
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Non-Peer-Reviewed Publications:

1. Eric Nutt and **Guang Fan**: Red Blood cells in Body Fluids. Medical Laboratory Observer March, 2004; p42
2. Eric Nutt and **Guang Fan**: Cytospin Body Fluids. Medical Laboratory Observer March, 2004; p 43
3. Eric Nutt and **Guang Fan**: Repeating Critical Values. Medical Laboratory Observer April, 2004; p45
4. Eric Nutt and **Guang Fan**: How to determine an estimate of the White Blood Cell count in whole blood from the peripheral smear. Medical Laboratory Observer February, 2006; p34
5. Kathleen Siechen and **Guang Fan**: The utility of osmotic fragility test. Medical Laboratory Observer. September, 2006; 54-55
6. Eric Nutt and **Guang Fan**: Criteria for identifying bands. Medical Laboratory Observer. November, 2006; p44
7. Eric Nutt and **Guang Fan**: Poikilocytosis terminology. Medical Laboratory Observer. December, 2006; p42-44
8. Sarah Henry and **Guang Fan**: Hb and HCT do not match in oncology patients. Medical Laboratory Observer July, 2007;p50
9. Kathleen Siechen and **Guang Fan**: Reporting smudge cells in CLL. Medical Laboratory Observer. September, 2007; p42
10. Kathleen Siechen and **Guang Fan**: Usefulness of reporting RBC morphology. November, 2007;p44
11. Kathleen Siechen and **Guang Fan**: When should we report manual differential count? Medical Laboratory Observer. January, 2008; p38.
12. **Guang Fan**: Letter response to editor. A unique case of adolescent CD56-negative nasal extranodal NK/T-cell lymphoma. Pediatric and Developmental Pathology. 2008; Vol.11 (4); p326
13. Winfried Reichelt, Eric Nutt, and **Guang Fan**: Estimating nucleated cells from hemocytometer. Medical Laboratory Observer. May 2009;p41
14. Winfried Reichelt, Eric Nutt, and **Guang Fan**: Neutrophil hypersegmentation index. Medical Laboratory Observer. March 2009;p27
15. Winfried Reichelt and **Guang Fan**: Quality of skin punctures. Medical Laboratory Observer. June 2009;p34
16. Nicky Leeborg and **Guang Fan**: Mixing EDTA blood too long. Medical Laboratory Observer. March 2009; p26
17. David Gray and **Guang Fan**: Does vortex the EDTA tube resolve platelet clumping? Medical Laboratory Observer. Sept.2009; online
18. David Gray and **Guang Fan**: Platelet aggregation is caused by poor venipuncture, capillary-blood draw, overfilling of the sample tube, or insufficient mixing of the sample tube. Sept.2009; online
19. Gang Xu and **Guang Fan**: The best laboratory practice for resolving the clumping of white blood cells. Medical Laboratory Observer. Nov. 2009; online
20. **Guang Fan**: Interviewed and cited by editor of CAP TODAY. Residual AML testing: methods but no map. CAP TODAY. 2009. Vol. 23. No. 11. p71 & p97-109

Book Chapters:

1. Rita Braziel and **Guang Fan**: Molecular Pathology in Clinical Practice, Chapter 32, B-cell lymphomas. p349-364. Springer Science+Business Media, LLC. 2007.
2. Jennifer Dunlap Nicky Leeborg, **Guang Fan**, and Rita Braziel: Molecular Pathology in Clinical Practice, B-cell lymphoma molecular testing. P579-603. Second edition. Springer Science+Business Media, LLC. 2015

Abstract Poster Presentations at National/International Meetings:

1. **Guang Fan** and James A Rillema: Possible role of protein kinases and phosphatases in prolactin signal transduction pathway. The Endocrine Society 73rd annual meeting, Program and abstracts; 1991.
2. **Guang Fan** and James A. Rillema: The effects of the protein phosphatase inhibitor, okadaic acid, in the actions of prolactin in cultured mouse mammary gland. The Endocrine Society 74th annual meeting, program and abstracts; 1992.
3. **Guang Fan** and Ricardo V. Lloyd: GnRH regulation effect on PRL gene expression in transfected GH3 cell line. The Endocrine Society 75th annual meeting; 1993.
4. Lawrence B. Holzman, Steven E. Merritt, and **Guang Fan**, Marina Mata: Identification, molecular cloning, and characterization of a novel developmentally regulated protein kinase bearing two leucine zipper domains. ASN program & abstracts 27th annual meeting; 1994.
5. Matthias Kretzler, **Guang Fan**, Josie P. Briggs, and Lawrence B. Holzman: Identification novel mouse embryonic renal marker (MERM) sequences differentially expressed during kidney development. ASN program & abstracts 27th annual meeting; 1994.
6. Matthias Kretzler, **Guang Fan**, Josie P. Briggs and Lawrence B. Holzman: Changes in renal gene expression during development. FASEB journal; 1994.
7. Lawrence B. Holzman, Steven E. Merritt, **Guang Fan**, et al: Characterization of DLK, a membrane associated serine/threonine kinase whose phosphorylation state is regulated by membrane depolarization via calcineurin. ASN program and abstracts 28th annual meeting; 1995.
8. Lawrence B Holzman, Steven Meritt, **Guang Fan**: DLK activates p46SAPK and p38MAPK but not ERK2 via a MEKK1 dependent but Rac1 and Cdc42Hs independent pathway. ASN program and abstracts 29th annual meeting; 1996.
9. **Guang Fan**, Harold Schumacher HR: Terminal deoxynucleotide transferase expression in Myelodysplastic syndromes. Blood. 1997.
10. **Guang Fan**, Carmarlita Alvares, Runlong. Shen, Haroid R. Schumacher: Blastic bone marrow analysis by CD4000 hematologic analyzer and flow cytometry. XII International Symposium on technological innovations in laboratory hematology, 1999.
11. **Guang Fan**, Carmarlit Alvares, Haroid R. Schumacher: Cell-Dyn 4000 hematology analyzer can decrease manual effort in evaluating non-diagnostic bone marrows. XIII International Symposium on Technological innovations in Laboratory Hematology, 2000.
12. **Guang Fan**, R. Neiman, Patricia K. Kotylo: Comparison of fascin expression in anaplastic large cell lymphoma and syncytial variant of Hodgkin's disease. United States and Canadian Academy of Pathology annual meeting. Modern Pathology, 2001.
13. James Huang, R. Hook, **Guang Fan**, Ken Gatter, William Rodgers, Rita Braziel: Microarray gene expression data can be efficiently managed and mined with Microsoft access and excel. United States and Canadian Academy of Pathology. Modern Pathology, 2003.
14. **Guang Fan**, Michael Molstad, James Huang, Rita Braziel, William Rodgers, Srinivasa Nagalla: Protein profiling of follicular lymphoma and Burkitt's lymphoma using SELDI protein-chip

- technology. ASH 45th annual meeting, Blood, 2003. James Huang, **Guang Fan**, Yianping Zhong,
15. Ken Gatter, Rita Braziel, Gary Gross, Anthony Bakke: Diagnostic Utility of aberrant CD22 expression in Differentiating Neoplastic cells of small B-cell lymphoproliferative disorders from benign B-cells in Immunophenotyping by Four Color Flow Cytometry. United States and Canadian Academy of Pathology Modern Pathology. 2004. Pamela Smith, James Huang, Ken Gatter, Rita Braziel, and **Guang Fan**: CD43 is a sensitive marker for screening Hematologic malignancy. American Society of Clinical Pathology annual meeting, 2005.
 16. **Guang Fan**, Yanping Zhong, Cristina Smith, James Huang, and Rita Braziel: A Proteomic Approach to Discovery of Candidate Proteins Involved in the Transformation of Follicular Lymphoma. American Society of Clinical Pathology annual meeting Blood, 2005; 106, p984
 17. Yanping Zhong, James Huang, and **Guang Fan**: Candidate Proteins Involved in the Transformation of Follicular Lymphoma by Proteomics Approach. AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, 2005
 18. **Guang Fan**, Yanping Zhong, Cristina Smith, James Huang, Ken Gatter, and Rita Braziel: Comparison of MnSOD expression pattern in follicular hyperplasia, follicular lymphomas, and transformed follicular lymphoma (diffuse large B-cell lymphoma) by immunoperoxidase staining. American Society of Clinical Pathology annual meeting, 2006
 19. Cristina. A. Smith, Pamela. P. Smith, James Huang, Ken Gatter, Rita Braziel, and **Guang Fan**: A retrospective comparison of the level of basophilia in de novo acute myeloid leukemia and myeloid blast crisis of chronic myelogenous leukemia. American Society of Clinical Pathology annual meeting, 2006
 20. Robert Trueworthy, Linda Stork, Yanping Zhong, Sharon Pine, Yousif Matloub, Ted Laderas, Shannon McWeeney, and **Guang Fan**: Cerebrospinal Fluid (CSF) Proteomics in Children with Acute Lymphoblastic Leukemia (ALL). ASH 48th annual meeting, Blood, 2006.
 21. Wayne Yang, Marc Loriaux, James Huang, and **Guang Fan**: CD123 diagnostic utility in acute leukemia. Clinical Flow cytometry annual meeting. Cytometry 2008.
 22. Jennifer Dunlap, Rita Braziel, James Huang, Marc Loriaux, Katalin Kelemen, Ken Gatter, and **Guang Fan**: Cytogenetic abnormalities in JAK2+ and JAK2- chronic myeloproliferative neoplasia. American Society of Clinical Pathology annual meeting, 2008
 23. Katalin Kelemen, Rita Braziel, Ken M. Gatter, James Z. Huang, **Guang Fan**: Immunophenotypic variations of Burkitt lymphoma. XV Meeting of the European Association for Hematopathology, 2008.
 24. Frank Cruz, Rita Braziel, Ken M. Gatter, James Z. Huang, **Guang Fan**: The significance of t-cell clonality analysis for possible lymphomatoid papulosis. International investigative dermatology annual meeting, 2008.
 25. David Gray and **Guang Fan**: Polyclonal plasma cells do not exclude a diagnosis of primary cutaneous marginal zone lymphoma. College of American Pathologists annual meeting 2008.
 26. Qing Chen, Rita M Braziel, James Huang, **Guang Fan**: A Flow Cytometric Protocol for Differential Diagnoses of Acute Monocytic Leukemia, Chronic Myelomonocytic Leukemia and Reactive Monocytosis. United States and Canadian Academy of Pathology annual meeting 2009
 27. Eric Goranson, **Guang Fan**, Rita Braziel, and Katalin Kelemen: Correlation of T-cell immunophenotype between skin biopsy and peripheral blood findings in mycosis fungoides. American Society of Clinical Pathology annual meeting, 2009
 28. James Huang and **Guang Fan**: Kappa and Lambda negative flow United States and Canadian

Academy of Pathology, 2010

29. Sarah Henry, Nicky Leeborg, **Guang Fan**, Ken Gatter: Copper Deficiency Presenting With Neurologic Symptoms and Cytopenias. CAP annual meeting, 2010.
30. Jennifer Dunlap, Christopher Corless, Nicky Leeborg, Ken Gatter, Rita Braziel, Katalin Kelemen, Marc Loriaux, **Guang Fan**: High-throughput mutation analysis in acute myeloid leukemia (AML). American Society of Clinical Oncology annual meeting, 2011
31. Katalin Kelemen, Nicky Leeborg, Craig Okada, **Guang Fan**: Granulomatous mycosis fungoids. SH/EAHP workshop 2011.
32. Erick Jacobson-Dunlop, Clifton Whit, **Guang Fan**: CD30 positive Scabs mimic lymphomatoid papulosis. SH/EAHP workshop 2011.
33. Elizabeth Kehr, Susan Olson, **Guang Fan**, Katalin Kelemen: The usefulness of FISH panel in routine diagnosis of diffuse large B-cell lymphoma. Pan Pacific Lymphoma conference, 2011
34. Jason Schallheim, Ying Pei, **Guang Fan**, Rita Braziel: T Cell Receptor Gene Rearrangement in Chronic Lymphoproliferative Disorders of NK Cells using flow cytometry sorting. 26th Annual Clinical Cytometry Meeting. Cytometry 2011.
35. Daphne Ang, Fei Yang, Richard Press, and **Guang Fan**: WT1 expression of different cell lineage in normal and leukemic bone marrow. 26th Annual Clinical Cytometry Meeting. 2011
36. Virginia Lanier, **Guang Fan** and Katalin Kelemen: Sequential analysis of CD38 expression by flow cytometry in chronic lymphocytic leukemia. 26th Annual International Clinical Cytometry Society Meeting, 2011.
37. Ying Pei, Jason Schallheim, **Guang Fan**: Analysis of the immunophenotypic aberrancies in the maturing myeloid and monocytic compartment in acute myeloid leukemia by flow cytometry. 26th International Clinical Cytometry Society annual Meeting 2011.
38. Ellen Flatley, Elaine S. Jaffe, Helen Lawce, Susan Olson, **Guang Fan**: B-cell Prolymphocytic leukemia with t(8;14) translocation. ASCP annual meeting, 2012
39. Amariék Jensen-de la Cruz, Virginia Lanier, Rita Braziel, and **Guang Fan**: Who's the big FISH now? American Society of Clinical Pathology annual meeting 2013
40. Shernan Holtan, Laura F. Newell, Gabrielle Meyers, Andy I. Chen, Brandon Hayes-Lattin, James Gajewski, Susan Slater, Eneida Nemecek, Rita Braziel, **Guang Fan**, Richard T. Maziarz, Nicky Leeborg: Predictive Classification of Chronic GVHD Status by Immune Reconstitution Testing. Biol Blood Marrow Transplant 19, 2013; S279eS312
41. XiaoHua Wang, Virginia Lanier, Kaitlin Pataroque, Justin Yan, and **Guang Fan**: Detection of MRD in AML by multiparameter flow cytometry. International Clinical Cytometry Society annual meeting, 2014
42. Chenxue Qu, Min Shi, Susan Olson, and **Guang Fan**: Precursor B-Acute Lymphoblastic Leukemia Minimal Residual Disease Detection and Confirmation by 8-color Flow-Sorting and FISH. International Clinical Cytometry Society annual meeting, 2014
43. National Study Group including 34 institutions/hospitals in US: Bone Marrow Biopsy Adequacy and Variability in United States and Canada: A Multicenter Retrospective Study. ASH annual meeting, Dec. 2014
44. Jessica T. Leonard, Laura F. Newell, **Guang Fan**, Shernan G. Holtan: Tissue Expression of Placental Growth Factor in Acute Graft Versus Host Disease after Hematopoietic Stem Cell Transplantation. ASH annual meeting, 2014
45. Fei Yang, Yasmine Akkari, **Guang Fan**, Richard Press, Susan Olson, and Stephen Moore: A clonal co-occurrence of trisomy 13 and heptasomy 21 in a case of AML with RUNX1 mutation:

- Case report and literature review. American College Medical Genetics and Genomics Annual meeting 2015.
46. Juan Ma, Jennifer Dunlap, Lisong Shen, **Guang Fan**: Mutation Analysis by Next Generation Sequencing (NGS) in de-novo Acute Myeloid Leukemia (AML). AACC July, 2015 Annual Meeting. Distinguished Abstract award.
 47. Aleksandra Paliga, Elie Traer, Rita Braziel, Rick Press, **Guang Fan** and Jennifer Dunlap: Persistent Gene Mutations Detected by Next Generation Sequencing in Acute Myeloid Leukemia Following Induction Therapy. USCAP 105th Annual Meeting, 2016
 48. Ying Wang, Phil Raess, **Guang Fan**: DNA Mismatch Repair Protein Expression In Diffuse Large B-cell Lymphoma" to CAP16, Las Vegas, Nevada, September 25-28, 2016.
 49. Xiaohua Wang, Marc Loriaux, Guang Fan: **A Case Report Of Epstein-barr Virus Associated Inflammatory Pseudotumors Of The Spleen**" to CAP16, 2016.
 50. Brian Werstein, Jennifer Dunlap, Michael J. Cascio, Robert Ohgami, **Guang Fan**, Richard Press, Philipp W. Raess. Myeloid Sarcomas and Concurrent Bone Marrow Biopsies May Demonstrate Discordant Mutational Profiles by Massively Parallel Sequencing. ASCP annual meeting 2017
 51. Todd Williams, Lindsay Taute, **Guang Fan**, and Jennifer Dunlap: A Case of Hairy Cell Leukemia Uncharacteristically Presents With Absolute Monocytosis as a Manifestation of a Concurrent Myelodysplastic/Myeloproliferative Neoplasm. ASCP annual meeting 2017
 52. Brian Werstein, Jennifer Dunlap, Michael J. Cascio, Robert Ohgami, **Guang Fan**, Richard Press, Philipp W. : Myeloid Sarcomas and Concurrent Bone Marrow Biopsies Frequently Demonstrate Molecular Discordance by Massively Parallel Sequencing, to the United States & Canadian Academy of Pathology's 107th Annual Meeting 2018
 53. Sharif Adwan, Zhenzhen Zhang, Richard Press, Jennifer Dunlap, Xiaohua Wang, Phil Passes, Allison Forman, **Guang Fan**: FLT3-Tyrosine Kinase Domain (TKD) Mutation Profile Analysis in Adult Acute Myeloid Leukemia (AML) by Next Generation Sequencing (NGS), the United States & Canadian Academy of Pathology's 107th Annual Meeting 2018.
 54. Xiaohua Wang and **Guang Fan**: Utility of MYD88 mutation testing in small B cell lymphomas with plasmacytic differentiation" at ISLH annual meeting 2018
 55. Mara Rosenberg, **Guang Fan**, Brian Druker, Marc Loriaux: Determining the sensitivity of primary acute myeloid leukemia (AML) samples with FLT3-ITD or FLT3-D835 mutations to FLT3 inhibitors using an ex vivo drug sensitivity screen: ASCO annual meeting 2018
 56. Alyssa J. Penning, Michael J. Cascio, **Guang Fan**, Jennifer Dunlap, Philipp W. Raess: Extracavitary primary effusion lymphoma with an atypical immunophenotype. 2018 ASCP meeting.
 57. Sharif Adwan, Juan Ma, Jennifer Dunlap, **Guang Fan**, FLT3-Tyrosine Kinase Domain (FLT3-TKD) Mutation Profile across Cytogenetic Risk Groups in Acute Myeloid Leukemia (AML). CAP 2018
 58. Weiwei Wang, **Guang Fan**, Evan Lind , Andy Kaempf, Allie Maffit, Tomi Mori, Byung Park, Jennifer Saultz: High NK cell number predicts poor overall survival in de novo treatment naïve Acute Myeloid Leukemia. AACR 2019 annual meeting
 59. Weiwei Wang, Haibo Li, Ying Wang, **Guang Fan**, Lisong Shen: Clinical characteristics of patients with positive Paroxysmal nocturnal hemoglobinuria (PNH) testing. ISLH 2019 annual meeting
 60. Weiwei Wang, **Guang Fan**, Evan Lind, Andy Kaempf, Allie Maffit, Tomi Mori , Byung Park, Jennifer Saultz: T cell percentage predicts improved overall survival in de novo treatment naïve Acute Myeloid Leukemia. American Association Immunology Annual meeting 2019.
 61. Weiwei Wang, Haibo Li, Lisong Shen, **Guang Fan**: Decreased Ratio of CD4 to CD8 T-cells in Bone Marrow at Initial Diagnosis is Associated with Increased risk of GVHD in transplant patients

- with AML. American Association Immunology Annual meeting 2019.
62. Weiwei Wang, Haibo Li, Lisong Shen, **Guang Fan**: Serums lactate dehydrogenase (LDH) levels correlated with patients' Paroxysmal nocturnal hemoglobinuria (PNH) clone sizes. AACC meeting 2019
 63. Tania Saliba, DO, Allen Holmes, MD, Ngoc Thy Bao Tran, MD, Weiwei Wang, Philipp Raess, MD, PhD, Jennifer Dunlap, MD, Ken Gatter, JD, MD, Rita Braziel, MD, Marc Loriaux, MD, PhD, **Guang Fan**, MD, PhD. Diagnostic Significance of Monocyte Immunophenotypic Aberrancy in Myeloid Neoplasms. ICCS Annual meeting. 2019
 64. Weiwei Wang, Haibo Li, **Guang Fan**, Lisong Shen: Increased T/NK ratio in Bone Marrow of AML Post-Induction Chemotherapy Predicts Increased Risk of GVHD in Transplant Patients. ICCS Annual meeting. 2019
 65. Weiwei Wang, Gabrielle Meyers, Haibo Li, Ying Wang, Lisong Shen, and **Guang Fan**. Retrospective Reviews of PNH Tests with Long-Term Follow-up in a Single Institution. ASH Annual meeting 2019
 66. Francisco Tria IV; Philipp W. Raess; Joanna Wiszniewska; Ngoc Tran; Tauangtham Anekpuritanang; Jennifer Dunlap; Richard Press; **Guang Fan**: Somatic Mutational Spectrum of Cytogenetically Normal Myelodysplastic Syndromes. USCAP annual meeting, 2020
 67. Francisco Tria IV; Philipp W. Raess; Joanna Wiszniewska; Ngoc Tran; Tauangtham Anekpuritanang; Jennifer Dunlap; Richard Press; Daphne Ang; **Guang Fan**: Signaling Pathway Mutations in Cytogenetically-Normal Myelodysplastic Syndromes are Associated with Progression to Acute Myeloid Leukemia. CAP annual meeting 2020
 68. Francisco Tria IV; Philipp W. Raess; Joanna Wiszniewska; Ngoc Tran; Tauangtham Anekpuritanang; Jennifer Dunlap; Richard Press; **Guang Fan**. Mutational Landscape of Cytogenetic Prognostic Risk-Stratified Myelodysplastic Syndromes. AACC annual meeting 2020.
 69. Maedeh Moheb Nasab, Stephen R. Moore, Jennifer Dunlap, Joanna Wiszniewska, Guang Fan, Wei Xie: FISH Interphase Negative, Cytogenetically Cryptic Acute Promyelocytic Leukemia: A Diagnostic Challenge and Pitfall. 2021 AMP
 70. Doris Yang, Donna Hansel, William Messer, Marcel Curlin, John Towens, Guang Fan, and Xuan Qin. Bimodal Distribution Pattern Associated with the PCR Cycle Threshold (*C_t*) and Implications in COVID-19 Infections. ASM 2022
 71. Tyler Yeager, Sophia Wang, Alan Wang and Guang Fan: The Evaluation of Artificial Intelligence (AI) Flow Data Analysis for Diagnosing Immunologic Disorders and Monitoring Immune Status. 2022 AACC annual meeting at Chicago.
 72. Zhengchun Lu, Guang Fan,Donna Hansel: Community-based SARS-CoV-2 testing using saliva or nasopharyngeal swabs to compare efficacy of weekly COVID-19 screening to wastewater SARS-CoV-2 signals. 2022 AACC annual meeting at Chicago.

Abstract/Case Platform Presentations at National/International Meetings:

1. American Society of Clinical Pathology annual meeting: Abnormal centrosome amplification is a common feature of myelodysplastic syndromes: possible explanation for genetic instability. 1999. **Guang Fan** and Jone C. Winkelman
2. United States and Canadian Academy of Pathology annual meeting: Failure of beta-globin gene detection does not predict non-amplification of DNA in JH/Bcl-2 PCR analysis: Insights from a

- National Follicular Lymphoma Clinical Trial. 2002. **Guang Fan** and Rita Braziel.
3. United States and Canadian Academy of Pathology annual meeting: Identification of Proteins Involved in the Transformation of Follicular Lymphoma. 2004. **Guang Fan**, Michael Molstad, James Huang, Rita Braziel, William Rodgers, and Srinivasa Nagalla.
 4. United States and Canadian Academy of Pathology annual meeting 2009: New flow cytometry markers for distinguishing acute myeloid leukemia, acute myelomonocytic leukemia and acute monoblastic/monocytic leukemia. **Guang Fan**, Rita Braziel, James Huang, and Qing Chen.
 5. United States and Canadian Academy of Pathology annual meeting 2012: WT1 expression of different cell lineages in normal and leukemic bone marrow. Daphne Ang, Fei Yang, Richard Press, and **Guang Fan**.
 6. Juan Ma, Jennifer Dunlap, Lisong Shen, **Guang Fan** Epigenetic-Regulator and Splicing-Gene Mutations in Acute Myelomonocytic Leukemia (AMML) and Acute Monocytic Leukemia (AMoL), the XXVIIIth International Symposium on Technological Innovations in Laboratory Hematology, May 2015. Berend Houwen Travel Award.
 7. Phil Raess, Alfons Krol; Rita Braziel; **Guang Fan**; Ken Gatter; Marc Loriaux; Jennifer Dunlap: Mast cell sarcoma with concurrent bone marrow involvement. SH/EAHP 2019 Workshop Case Presentation. Sept. 2019.

Invited lectures, conference presentations, or professorships:

OHSU CME or CE credited

1. The impact of gene and protein profiling on diagnostic pathology. 2009 Pathology Department Grand Rounds
2. Minimal Residual Disease (MRD) detection in acute lymphoblastic leukemia (ALL). 2012 Pathology Department Grand Rounds
3. Flow Cytometry Analysis - 2003 National Laboratory Week Lecture to laboratory technicians and residents
4. Acute Myeloid Leukemia - 2004 National Laboratory Week Lecture to laboratory technicians and residents
5. Multiple Myeloma - 2006 National Laboratory Week Lecture to laboratory technicians and residents
6. Paroxysmal nocturnal hemoglobinuria (PNH) - 2008 National Laboratory Week Lecture to laboratory technicians and residents
7. SARS-CoV-2 Test Development and Applications. May/June 2020.

Regional CME or CE credited

1. Cincinnati Pathology Society: Anaplastic Large Cell Lymphoma. Feb. 1998
2. Cincinnati Pathology Society: Inflammatory Myofibroblastic Tumor of Soft Tissue. Feb. 1999
3. Oregon Pathology Association: Megakaryoblastic Leukemia Arising from Chronic Myeloid Leukemia (CML). Nov. 2001
4. Washington State Society for Clinical Laboratory Services (WSSCLS) Educational Program: Laboratory Evaluation of Acute and Chronic Myeloid Leukemias. May 2004

5. Oregon Pathology Association: Minimal Residual Disease Detection in Leukemia & Lymphoma. March 2014
6. OPA 2019: CD30+ lymphoproliferative disorders
7. Covid-19 Vaccine Roundtable for Chinese Friendship Association. Jan. 31, 2021

Regional Symposium Speaker (3 hours) CE credited

1. Portland Area Laboratory Consortium for Education (PALCOE): Targeted Therapy for Acute and Chronic Myeloid Leukemia. Sept. 2005
2. Northwest Medical Laboratory Symposium (NWMLS): History of acute lymphoblastic leukemia and Minimal Residual Disease Detection for Acute Lymphoblastic Leukemia Oct 2012
3. Portland Area Laboratory Consortium for Education (PALCOE): Acute lymphoblastic leukemia: true grit in the war against cancer. Jan. 2013
4. Northwest Medical Laboratory Symposium (NWMLS): Marrow Failure Syndromes-Causes, Symptoms, Diagnosis and Treatment. Oct 2014

National/International CME or CE credited

1. Society for Hematopathology/European Association for Hematopathology Workshop: T/NK cell Lymphoma case study. 2005. Houston, Texas
2. Society for Hematopathology/European Association for Hematopathology Workshop: Candidate Proteins Involved in the Transformation of Follicular Lymphoma by Proteomics Approach. 2006
3. Clinical Cytometry Society Annual Meeting: Biclinal Chronic Lymphocytic Leukemia, 2008. Portland, OR.
4. Chinese American Pathologists Association at USCAP meeting: Hot topics in Hematopathology. 2009, Boston, MA, USA
5. BIT Life Sciences 2nd Annual Congress: Has High Throughput Gene Profiling and Protein Profiling Brought Us Closer to Targeted Therapy and Improved Clinical Outcome for Leukemia and Lymphoma? Section of Molecular Diagnostics, 2009. Beijing, China. Section Chair and Speaker.
6. Hematology Oncology Conference of Soochow Children's Hospital: Targeted therapy in acute leukemia. 2010, Suzhou, China.
7. Society of Hebei Province Pediatric Oncology 2nd conference: Personalized Medicine. 2010 Shijiazhuang, China
8. Beijing University First Hospital 95-years Establishment Conference for Clinical Laboratory Medicine: Utility of 8-color Flow Cytometry at OHSU. 2010, Beijing, China
9. Beijing University First Hospital Clinical Laboratory Medicine conference: How to Prepare for CAP Accreditation. Oct 2012
10. Medical Student conference at Medical School of Soochow University: Leukemia: From Unknown Disease to a Nearly Curable Cancer. 2012. Suzhou, China.
11. Clinical Laboratory and Hematology-Oncology Conference of Suzhou Children Hospital: Multiplex Mutation Analysis and Target Therapy for Leukemia. 2012, Suzhou, China.
12. Annual Conference of Society of Clinical Laboratory Medicine of Shanghai: Clinical Applications of Flow Cytometry Analysis. 2013, Shanghai, China
13. American Association of Pathologists' Assistants 39th Annual Meeting: Acute lymphoblastic Leukemia. 2013, Portland, OR.
14. China Hematopathology 2th Annual Meeting: Clinical Application of Molecular Testing in

- Leukemia. 2013 Tianjin, China
15. 2014 Oriental Congress of Laboratory Medicine: Application of Next-Generation Sequencing in Hematologic Disorders. 2014, Shanghai, China.
 16. 2015 Clinical laboratory Medicine annual meeting: The critical role of clinical laboratory in managing anemia patients. July, 2015 Zhengzhou, China
 17. 2016. The 14th Asian Society for Clinical Pathology and Laboratory Medicine Congress: NGS testing in Myeloid Malignancies. March 2016 Taipei, Taiwan
 18. 2016 Oriental Congress of Laboratory Medicine: Clinical Applications Flow cytometry in Immunologic disorder. December, 2016 Shanghai, China
 19. CAP Annual education event: IQCP (Individualized Quality Control Plan), June 2017. Shanghai, China.
 20. Shanghai Medical Doctors Association for Laboratory Medicine Professionals SMDALMP, Annual Meeting: EBV associated hematological disorders. June 2017, Shanghai, China
 21. China Medical Doctors Association for Laboratory Medicine Professionals, Annual Meeting: Advancement of MRD (Minimal Residual Disease) detection in acute leukemia. June, 2017. Xian, China.
 22. Hematology Oncology Annual Meeting: DLBCL update. Oct. 2017, Shanghai.
 23. National Pathology Conference of Malaysia. CAP education event: “Test validation” and “The best use of Proficiency testing”. Aug. 2018. Kuala Lumpur, Malaysia
 24. CAP education event. “How to prepare for CAP accreditation” and “Quality Management for Clinical Laboratory”. Aug. 2018 in Jakarta, Indonesia.
 25. Chinese Clinical Laboratory Medicine Annual meeting: Advances in Clinical Flow Cytometry. Sept. 2018 Dalian, China
 26. The topics presented: Laboratory Developed Test Validation and Most Commonly Cited Deficiencies. CAP education event. Nov. 2019 in Singapore
 27. Most Frequent asked questions related to CAP accreditation. Webex presentation 3 hours for Clinical Laboratories in China.(>2000 audiences), 2020

VI. SERVICE

Membership in Professional Societies:

1. United States and Canadian Academy of Pathology (USCAP)-active
2. College of American Pathologists (CAP)-active
3. American Society of Clinical Pathologists (ASCP)-active
4. American Society of Hematology (ASH)-active
5. Pacific Northwest Society of Pathologists (PNSP)-active
6. Oregon Pathology Association (OPA)-active
7. Society for Hematopathology (SHP)-active
8. International Clinical Cytometry Society (ICCS)-active
9. The Chinese American Pathologists Association (CAPA)-inactive
10. Children’s Oncology Group (COG)-inactive
11. Society of Chinese Bioscientists in America-inactive

Editorial and Ad Hoc Review Activities:

1. Editorial board member: Human Pathology 2005-2019
2. Ad Hoc reviewer: Blood: 2005-present, 1-3 papers/year
3. Ad Hoc reviewer: Journal of Molecular Diagnostics 2002-present, 1-3 papers/year.
4. Ad Hoc reviewer: Archives of Pathology and Laboratory Medicine 2003-present, 1-3 papers/year.
5. Ad Hoc reviewer: American Journal of Pathology. 2005-present, 1-3 papers/year
6. Ad Hoc reviewer: American Journal of Clinical Pathology. 2006-present, 1-3 paper/year
7. Ad Hoc reviewer: Leukemia Research. 2009-present, 1-3 papers/year
8. Ad Hoc reviewer: Clinical Chemistry. 2012-present, 1-3 papers/year
9. Ad Hoc reviewer: Cancer Research. 2012-present, 1-3 papers/year
10. Ad Hoc reviewer: Cancer Genetics. 2012-present, 1-3 papers/year
11. Ad Hoc reviewer: Diagnostic pathology. 2014, 1-3 papers/year

Grant reviews and Expert Consultation:

1. NCI SPORE panel reviewer for leukemia, lymphoma, and GI cancers 2012
2. Reviewer for NCI Loan Payment Program (LRP) for 2010, 2012, 2013, 2014
3. International reviewer for National Natural Science Foundation of China, Medical Science Division, 2014
4. Member of Expert Panel for the Journal of Medical Laboratory Observer 2004-2009

Committees:

National/international:

College of American Pathologists (CAP):

The College of American Pathologists is the leading organization of board-certified pathologists in the United States. The CAP Laboratory Accreditation Program is an internationally recognized program and serves as the gold standard for Laboratory Medicine. The CAP has accredited nearly 8000 laboratories around the world. The Centers for Medicare and Medicaid Services (CMS) has granted the CAP Laboratory Accreditation Program deeming authority. It is also recognized by the Joint Commission. CAP accreditation can be used to meet many state certification requirements.

In last 10 years working with the College of American Pathologist Laboratory Accreditation Program, I have lead team CAP inspections for over 100 laboratories in US and across the world. I have worked with a diverse range of groups including rural community health labs, large commercial labs, and university affiliated laboratories responsible for 4000 bed hospitals. The experience I have gained in quality management, quality control, laboratory operations, and cutting-edge technology has been invaluable to my work at my home institution.

My roles in the CAP are listed below.

1. CAP Laboratory Accreditation Program inspector for US laboratories 2003-present
2. Member of International Inspector Certification Program for developing education and testing materials, College of American Pathologists, 2011-2013
3. CAP Laboratory Accreditation Program Pacific Northwest Regional Commissioner, covering 6 states in the US and 3 Providences in Canada 2014-present

4. CAP Laboratory Accreditation Program State Commissioner for Oregon 2011-present
5. CAP Laboratory Accreditation Program Education Committee member 2012-2017
6. CAP Laboratory Accreditation Program Education Committee vice chair 2016-2017
7. CAP Laboratory Accreditation Program inspection team leader for US laboratories 2012-present
8. CAP Laboratory Accreditation Program inspection team leader for international laboratories 2014-present
9. CAP LMD course practical assessment scoring committee 2017-present
10. CAP Laboratory Accreditation Program Complaints and Investigations Committee 2018-present
11. CAP LMD course AP3 Product Review for LMD online courses 2019-present
12. Team leader of OHSU inspection team
 - a. Providence Health and Services, Medford, OR 2012
 - b. Providence Regional Lab, Portland, OR 2012
 - c. CellNetix Labs, LLC. Everett, WA 2013
 - d. CellNetix, Seattle, WA 2014
 - e. Peace Health Laboratories, Eugene 2014
 - f. DynalifeDx, Edmonton, AB, Canada 2015
 - g. Barlett Regional Hospital, Alaska 2016
 - h. Fairbanks Memorial Hospital, Alaska 2016
 - i. Laboratory Corporation of America, NC, Feb. 2017
 - j. The Queen's Health System, Aiea, HI, 2017
 - k. Kaiser Laboratory in Fremont, CA, 2017
 - l. BC Cancer Agency Genome Sciences Center, Vancouver, BC, 2019
 - m. Providence Laboratory Anchorage, Alaska, 2019
 - n. Barnes Hospital, Washington University, St Louis, 2021
13. Team Leader for International Laboratory Accreditation Program CAP inspections
 - a. Beijing Chao-Yang Hospital Laboratory, Beijing, China, 2014
2000 beds, 2.5 million outpatient visits/year and 18,000 operations annually
 - b. Al Rayan Hospital Laboratory, Riyadh, Saudi Arabia, 2014
 - c. Clinical Laboratory Huashan Hospital Affiliated to Fudan University Shanghai, China, 2014
1500 beds, 1.5 million outpatient visits/year, 20,000 operations annually
 - d. Beijing Shijitan Hospital Affiliated to Capital Medical University, Beijing, China, 2014
Nearly 1000 beds, 1 million outpatient visits/year, and 13,100 inpatients/year
 - e. ICON Central Laboratories, EMT, China, 2014
 - f. Kingmed Diagnostic Center Co Ltd, Guangzhou, China, 2014
The largest commercial laboratory in China, operates a chain of medical laboratories including 22 provincial-level Labs and serving more than 6000 hospitals
 - g. West China Hospital of Sichuan University, Clinical Laboratory, Sichuan, China, 2014
More than 4000 beds, 4 million outpatient visits/year, and 1 million surgical operations annually
 - h. Second Affiliated Hospital, Zhejiang University, Zhejiang, China, 2015
 - i. People's hospital, Beijing University, Beijing, China, 2015
 - j. United Family Hospital, Beijing, China, 2015
 - k. West China Second Hospital of Sichuan University, Chengdu, China, 2015
 - l. First Affiliated Hospital, Zhejiang University, Hangzhou, Zhejiang, China, 2015

- m. Institute of Hematology & Blood Diseases Hospital, Chinese Academy of Medical Sciences & Peking Union Medical College, Tianjin, China, 2015
- n. Linkou Chang Gung Memorial Hospital, Taipei, China, 2015
- o. First Hospital Beijing University, Beijing, China, 2016
- p. China Medical University Hospital, Taipei, Taiwan, 2016
- q. Beijing Union Clinical Laboratory, Beijing, China, 2016
- r. Singapore General Hospital, Singapore National University affiliated Hospital, Singapore, 2017
- s. Blueprint Gen Lab, Helsinki, Finland 2018
- t. Advanced Genomics Solutions, Hong Kong, China, 2018
- u. Singapore National University Clinical Laboratory 2019
- v. Virtual inspections in 2020 for international laboratories- NGS Labs in Japan, 2020
- w. Virtual inspections in 2021 for international laboratories- NGS Labs in Finland, Germany, and China.
- x. Virtual inspection in 2022 for international laboratories: NGS Lab in Singapore, China, Japan, and Taiwan

Other National/International Committees:

- 1. International Clinical Cytometry Society – Member of international working group for standardization of clinical flow cytometry: 2011-2013
- 2. Society for Hematopathology – Question writer for RISE/FISHE (fellowship in service annual examination): 2008-2014
- 3. Society of Chinese Bioscientists in America – Oregon Chapter President: 2007-2009
- 4. China Medical Doctor Association of Clinical Laboratory Medicine – Member of anemia committee: 2015-present
- 5. China Medical Doctor Association of Clinical Laboratory Medicine – Member of clinical hematology committee: 2015-present
- 6. Shanghai Medical Doctor Association – Overseas Consultant: 2016-present

Institutional:

- 1. Faculty Council Committee at OHSU, elected, 2006-2010
- 2. Institutional Review Board (**IRB**) at OHSU, 2005-2013
- 3. Knight Cancer Institute Hematologic Malignancies Program, 2009-present

Departmental:

- 1. Quality control and quality assurance committee for the clinical laboratory, 2001-present
- 2. Research committee, 2001-present
- 3. Promotion and tenure committee, 2010-present

Clinical Responsibilities:

Overview of my role as director of multiple laboratory sections and Associate Director of the OHSU Hospital Laboratory

Over the years, my focus has been providing high quality service to OHSU patients and the Oregon

community. I have gained broad experience in laboratory operations, and developed expertise on the diagnosis of lymphoma/leukemia via flow cytometry, and molecular testing. I lead numerous new test development projects and new instrument implementations. Based on my achievement and commitment to clinical services, I was promoted to Associate Director of the OHSU Hospital Laboratory. Through this role, I am routinely involved in quality control and quality improvement activities of entire laboratories. I have also expanded OHSU hematopathology and flow cytometry services to several outside hospitals and laboratories. I took on additional responsibilities as the interim director of microbiology laboratory on Jan 1, 2020. Three months later, the COVID-19 pandemic began. I immediately started set up of COVID-19 testing from scratch. In 2 weeks, we started testing using borrowed instruments and borrowed space. In the following months, we dealt with reagents shortages, new instrument validations, and a high testing volume. We maintained a good turn-around time (>90% in 24 hours) throughout the process. Due to our success in COVID-19 testing, we received generous donations from Nike and the OHSU foundation, and large contracts from the Oregon Health Authority for COVID Sequencing and K-12 back to school testing.

1. Director of Hematopathology Clinical Service:

Our clinical service includes bone marrows, lymph nodes/consults, flow cytometry, and molecular diagnostic services. The molecular clinical services include clinical interpretation and reporting of Next Generation Sequencing (NGS) for hematologic malignancies in addition to T & B cell clonality testing by PCR.

As director, I also mentor all new faculty on clinical services by reviewing cases and acting as a consultant for difficult clinical scenarios.

Additionally, I lead multiple quality improvement projects to establish more efficient and effective clinical services. Due to our efforts over the years to provide high quality services, improve turn-around-time, and enhance communication with OHSU and outside physicians, the number of hematopathology consultation cases has increased 5-10% annually and turn-around time has decreased by 50%.

2. Director of Hematology and Bone Marrow Laboratory (2001-09)

As the Medical Director of these laboratories, I have made significant contributions to procedural improvements and quality improvement. Some of the more notable achievements are listed below.

- Introduction of two major procedures: auto-verification of the hematology analyzer and manual slide review. These procedures have improved turn-around-time by about 30%. At the same time, the quality of slide review and CBC differential count has been much improved.
- Establishment of quality control procedures for the hematology and bone marrow laboratories
- Update of outdated reference ranges and critical values
- Validation of new hematology analyzers
- Development of laboratory medical technologist education sessions
- Development of auto-staining procedure for bone marrow smears

3. Director of Clinical Flow Cytometry Laboratory (2008 to present)

I am involved in daily laboratory operations, monthly quality control reviews, development of new laboratory testing, clinical consultations, competency evaluation, and laboratory personnel education to provide the best patient care and to meet state and federal regulations. In this area, my major

accomplishments over the past few years include:

- Computerization of ordering processes for the flow cytometry and bone marrow laboratories
- Development of the flow cytometry database. This database has improved the hematopathologists/residents/fellows ability to analyze patient data and provide more timely, accurate and relevant results.
- Development of minimal residual disease testing procedures for acute lymphoblastic leukemia
- Development of high sensitivity testing for paroxysmal nocturnal hemoglobinuria (PNH)
- Modification of cytoplasmic/nuclear antigen staining procedures, which saved 90 min for each staining process
- Standardized antibody staining and washing processes for more reproducible results
- New instrument validation completion for 10-color flow
- Validation of duraclonal antibody panels for leukemia/lymphoma and immunodeficiency

4. Interim Director of Microbiology Lab (Jan. 2020-Dec. 2021)

- Set up new COVID 19 testing laboratory in March 2020 that runs 7 days/week with 2 shifts/day. Currently 1000 test/day with TAT in <30 hours. This lab should be able to handle 3000 tests/day.
- Validated and went live in March 2020: HIV, HBV, HCV
- Validated and went live in Oct 2020
 - CT/NG
 - Bacterial Vaginosis, Candida Vaginitis, Trichomonas vaginalis (BV/CV/TV)
- Validated and went live in Aug. 2021: Covid-19 NGS Sequencing
- Validated and went live in Oct. 2021: HPV
- Validated and going live in Dec. 2021: CMV
- Ongoing new test development and validations:
 - NGS oncology testing, flow cytometry sorting
 - New electrophoresis
 - MALDI for microorganism identification

5. Director of PPM Lab for Beaverton Clinic (2020-present): QM and QC management

6. Associate Director of Clinical Laboratory

- New test development planning
 - COVID Lab, 2020
 - NGS Sequencing Lab, 2021
 - Electrophoresis Lab, 2022
 - K-12 COVID testing Lab, 2021
 - Microbiology Lab 2021
 - Antibody testing for COVID, 2020
 - New instrument purchasing planning 2020-2022
 - PCR instruments, Cobas 6800/8800, Panther and Panther plus
 - RNA/DNA extraction instruments: KingFisher
 - Sequencing instrument: Illumina MiSeq and NextSeq
 - MALDI

- MicroScan
- BioMic
- Laboratory QA/QC meetings/activities
 - Quarterly meeting for clinical and pathology labs
 - Monthly management meeting for Special Immunology Lab
 - Monthly management meeting for core lab
 - Monthly management meeting for Phlebotomy
 - Monthly management meeting for LIS
 - Self-inspection for multiple sections of the lab, teaching residents, fellows, and junior faculty

VII. TEACHING (OHSU Educator's Portfolio):

Overview of my Role as an Educator:

During the past few years, I have been involved in numerous teaching and mentoring activities for medical students, residents, fellows, PhD students, visiting scholars, and laboratory technicians in OHSU programs and international programs. I have been selected multiple times by the pathology residents to receive the annual Laboratory Medicine Faculty Teaching Award (2002, 2012, 2019). I was also named as an exceptional mentor for the OHSU M.D. Class of 2014.

As Director of the Hematopathology Fellowship Program from 2004 to 2020, I am responsible for recruitment of fellows and have revised the fellowship curriculum several times based on feedback and ACGME-requirements. The hematopathology fellows who have graduated from our program have a 100% pass rate on the Hematology Specialty board examination.

I also teach medical students, residents, and fellows in the classroom, laboratory sessions, and when they rotate on our clinical services. My didactic lectures and clinical instruction primarily focus on hematopathology and flow cytometry. Over the years I have also mentored numerous visiting scholars and students from China for research projects and in clinical skills. Many of them have presented the work they have done with me at national/international meetings and/or published manuscripts, received funding, or became clinical laboratory directors in their own institutions.

As a committee member of the CAP Laboratory Accreditation Program, I go to committee meetings 3 times a year to design and create online training courses for inspectors and team leaders, choose webinar topics (6-10), review each set of webinar materials before release, and review feedback. I also created a subspecialty online training course for clinical flow cytometry and was a coauthor and co-presenter for a webinar titled "Quality Control: What You Need To Do and How You Can Show That You Do It". Currently, I serve on Complains & Investigation Committee of Accreditation Console.

A. CAP online course development:

1. Required CAP Inspector Training course: Flow Cytometry Laboratory Inspection
2. Laboratory Medical Director course- 4 online modules and 2.5 CME 2016: Focus on Compliance
3. Laboratory Medical Director course- 4 online modules and 2.5 CME 2019: Improving Patient

Outcomes: Managing Risk and Reducing Errors

B. Direct Teaching

1. Medical Students

- a. Labs sessions for Blood, lymph node, infectious disease, clinical lab clerkship
- b. Didactic Lectures on lymphoma and leukemia
- c. Medical student hemepath rotation

2. Residents and Fellows

- a. Histiocytic Cell Neoplasms
- b. T-Cell/NK-Cell Lymphomas
- c. Flow Cytometry
- d. Abnormal WBCs, PLTs, RBCs
- e. Unknown cases/slides microscopic conference
- f. Flow cytometry for acute leukemia.
- g. Bone marrow, flow, and hemepath consultation rotations

3. Clinical Lab Technologists

- a. PNH
- b. Multiple Myeloma
- c. Acute Myeloid Leukemia
- d. Flow cytometry analysis
- e. Laboratory Evaluation of Acute and Chronic Myeloid Leukemia
- f. Targeted Therapy for Acute and Chronic Myeloid Leukemia
- g. History of Acute Lymphoblastic Leukemia and MRD detection
- h. Acute Lymphoblastic Leukemia: true grit in the war against cancer
- i. Marrow Failure Syndromes-Causes, Symptoms, Diagnosis and Treatment.
- j. Bone marrow biopsy quality

4. Clinicians, Pathologists, Clinical Scientists

- a. Megakaryoblastic Leukemia arising from CML
- b. MRD Detection in Leukemia/Lymphoma.
- c. Biclonal Chronic Lymphocytic Leukemia
- d. Hot Topics in Hematopathology
- e. Has High Throughput Gene Profiling and Protein Profiling Brought Us Closer to Targeted Therapy
- f. Personalized Medicine
- g. Multiplex Mutation Analysis and Targeted
- h. Therapy in Acute Leukemia
- i. Leukemia: from unknown disease to a nearly curable cancer
- j. Clinical Applications of Multi-Color Flow Cytometry Analysis
- k. Application of Next-Generation Sequencing in Hematologic Disorders
- l. How to Prepare for CAP Accreditation
- m. How to do CAP Inspection for Clinical Flow
- n. Cytometry Laboratory, CAP online training course
- o. Quality Control: What You Need To Do and How You Can Show That You Do It, CAP webinar
- p. Test Validation. CAP webinar

C. Curriculum Development

1. Title: curriculum for hematopathology fellowship program

Purpose/Need: provide guideline for reading materials and milestones for clinical activities

Intended audience: hemepath fellows

Significant Results & Outcomes: 100% graduated fellows passed hematopathology board examination at first attempt. Many of them are directors of hematopathology divisions, hematology laboratories, and flow cytometry laboratories across the nation.

2. Title: curriculum for hematopathology bone marrow rotation (in collaboration with residency program director)

Purpose/Need: provide guideline for reading materials and milestones for clinical activities

Intended audience: pathology residents

Significant Results & Outcomes: Positive feedback from residents and getting above average scores for the hematopathology session at annual in-service examination

3. Title: curriculum for pathology resident flow cytometry rotation (in collaboration with residency program director)

Purpose/Need: provide guideline for reading materials and milestones for clinical activities

Intended audience: pathology residents

Significant Results & Outcomes: Positive feedback from residents and residents get hands-on training for data analysis using online software and data from OHSU server.

4. Title: Hemepath Journal Club

Role: Coordinator and presenter of a weekly journal club (2002-present)

Purpose/Need: Provide most updated information in the field, develop research projects, and encourage critical thinking and discussion.

Intended audience: hemepath fellows, hematology-oncology fellows, pathology residents, rotating medical students.

Significant Results & Outcomes: Many fellows presented abstracts in the national/international meetings and published manuscripts.

D. Advising and Mentoring

I am passionate about trainee mentoring. For pre-medical students, I've mentored one summer internship student (Kaitlin Pataroque), one college student (Justin Yan), and one laboratory assistant (Richard Carpenter II). All of their research abstracts were accepted for presentation at international meetings. I have also mentored one PhD student (Huilan Yao), who published a manuscript in *Blood*, the leading journal in hematology field. I have mentored numerous residents and fellows for Grand Rounds, development of research projects and presentation of research abstracts at national/international meetings, and publication of manuscripts in pathology journals. The publications and presentations by individuals who I mentored are listed in outcomes below. Several hematopathology fellows have gone on to join academic departments at OHSU or other institutions. In addition, I have mentored several visiting scholars from top medical schools in China (Beijing, Shanghai, Suzhou, and Shijiazhuang) and Philippine (Manila). All of these visiting faculty members were MD/PhD pathologists and received national/university funding from their home country for training at OHSU from 6 months to one year. Throughout the years, these visiting faculty members and I have presented abstracts and published manuscripts together. All of them have returned to China and assumed positions of increased responsibility in their home institutions. They have become vice chairs of their university departments of clinical laboratory medicine and directors of hematology and molecular laboratories.

1. Hematopathology Fellows

- a. Marc Loriaux, MD/PhD: Associate professor at OHSU with numerous research grants and publications
- b. Pam Smith, MD: Pathologist in Salem, OR. Presented “CD43 is a sensitive marker for screening Hematologic malignancy” at ASCP annual meeting 2005.
- c. Kathleen Siechen, MD: Director of flow lab in Minnesota large pathology group Published “The utility of osmotic fragility test”, “Reporting smudge cells” & “Usefulness of reporting RBC morphology” in Medical Laboratory Observer 2006
- d. Sarah Henry MD: Director of Hematology Laboratory in Oklahoma. Published “The utility of osmotic fragility test”, “Reporting smudge cells” & “Usefulness of reporting RBC morphology” in Medical Laboratory Observer 2006
- e. Frank Cruz, MD. Pathologist in Adventist, Portland, OR. Presented abstract “The significance of T-cell clonality analysis for possible lymphomatoid papulosis” International investigative dermatology annual meeting 2008
- f. David Gray, MD: Pathologist in Vermont. Presented abstract “Polyclonal plasma cells do not exclude a diagnosis of primary cutaneous marginal zone lymphoma” CAP annual meeting 2008; and Published “Does vortexing the EDTA tube resolve platelet clumping?” Medical Laboratory Observer 2009
- g. Nicky Leeborg, MD: Director of Molecular Laboratory in Kaiser, Portland, OR. Published, “Mixing EDTA blood too long”. Medical Laboratory Observer. March 2009
- h. Winfried Reichelt, MD/PhD: Director of Hematopathologist in Kansas. Published, “Estimating nucleated cells from hemocytometer”, “Neutrophil hypersegmentation index” & “Quality of skin puncture”. Medical Laboratory Observer in 2009
- i. Gang Xu, MD/PhD: Director of Hematopathology in Denver. Published “The best laboratory practice for resolving the clumping of white blood cells”. Medical Laboratory Observer. 2009
- j. Christina Smith, MD: Medical director in Denver. Published “The Saga of Jak2 mutations and translocations in hematologic disorders: Pathogenesis, diagnostic & therapeutic prospects, and proposed revision of WHO diagnostic criteria for chronic myeloproliferative disorders”. Human Pathology. 2008;39:795-810
- k. Jennifer Dunlap, MD: Associate professor at OHSU. Published “Association of JAK2 mutation status and cytogenetic abnormalities in myeloproliferative neoplasms and myelodysplastic/myeloproliferative neoplasms. Amer J Clin Pathol 2011 & “Multiplex High-throughput Gene Mutation Analysis In Acute Myeloid Leukemia”. Human Pathology. 2012
- l. Ying Pei, MD/PhD: Director of Pathology department in VA medical Center, Idaho. Presented “Analysis of the immunophenotypic aberrancies in the maturing myeloid and monocytic compartment in acute myeloid leukemia by flow cytometry”. 26th Annual Clinical Cytometry Meeting. 2011.
- m. Jason Schallheim, MD: Assistant professor in Oklahoma University. Presented “T Cell Receptor Gene Rearrangement in Chronic Lymphoproliferative Disorders of NK Cells using flow cytometry sorting”. 26th Annual Clinical Cytometry Meeting. 2011
- n. Daphne C. Ang, MD: Director of Clinical Laboratory in Philippines. Published “Utility of multiplex mutation analysis in the diagnosis of chronic myelomonocytic leukemia” in J Leuk 2013. Presented “WT1 expression of different cell lineage in normal and leukemic bone marrow. 26th Annual Clinical Cytometry Meeting. 2011 and “Utility of multiplex mutation analysis in the diagnosis of chronic myelomonocytic leukemia”. USCAP annual meeting 2013

Hematology-Oncology Fellows:

- a. Suman Malempati, MD: Associate professor at OHSU. Published “Aberrant stabilization of c-Myc protein in lymphoblastic and myelogenous leukemia. *Leukemia* 2006
- b. Bill Chang, MD/PhD: Professor at OHSU. Published “A unique case of adolescent CD56-negative nasal extranodal NK/T-cell lymphoma”. *Pediatric and Developmental Pathology*. 2008
- c. Tarunpreet Bains, MD: Physician at Providence, California. Published “Newly Described Activating JAK3 Mutations in T-cell Acute Lymphoblastic Leukemia”. *Leukemia*. 2012.

Pathology Residents:

- a. Erick Jacobson-Dunlop, MD: Presented “CD30 positive Scabs mimic lymphomatoid papulosis.” SH/EAHP workshop 2011
- b. Elizabeth Kehrl, MD: Presented “The usefulness of FISH panel in routine diagnosis of diffuse large B-cell lymphoma.” 2011 Pan Pacific Lymphoma conference
- c. Ellen Flatey, MD: Published “Bone marrow involvement by Peripheral T-cell lymphoma, Not Otherwise Specified.” *Pathology Case Reviews*. 2012
- d. Amariëk Jensen-de la Cruz, MD: Presented “Who’s the big FISH now.” ASCP annual meeting 2013
- e. XiaoHua Wang, MD, PhD: Presented “MRD analysis in AML.” ICCS 2014 annual meeting

Graduate Students/Visiting Scholars:

- a. Huilan Yao, PhD: Published “The co-repressor Rcor1 is essential for murine erythropoiesis.” *Blood* 2014
- b. Yanping Zhong, MD: Professor in Yunnan, China
Published “Diagnostic Utility of aberrant CD22 expression in Differentiating Neoplastic cells of small B-cell lymphoproliferative disorders from benign B-cells in Immunophenotyping by Four Color Flow Cytometry.” *AJCP* 2005, & “Drug resistance in B-cell chronic lymphocytic leukemia: Predictable by In Vitro evaluation with a multiparameter flow cytometric cytotoxicity assay. *Cytometry Part B: Clinical Cytometry* 2007. Presented “Candidate Proteins Involved in the Transformation of Follicular Lymphoma by Proteomics Approach.” AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics, 2005 & “Cerebrospinal Fluid (CSF) Proteomics in Children with Acute Lymphoblastic Leukemia (ALL).” ASH 48th annual meeting, 2006
- c. Xuejun Shao, PhD: Vice Chair of Department of Clinical Laboratory, Suzhou Children’s Hospital, Suzhou University, Suzhou, China
- d. Chenxue Qu, MD/PhD: Vice Chair of Department of Clinical Laboratory, Beijing First Hospital, Beijing University, Beijing, China. Presented “Flow Sorting for MRD detection in ALL” ICCS 2014 annual meeting. Received funding from Government as Mentor for MD/PhD student.
- e. Min Shi, PhD: Vice Chair of Department of Clinical Laboratory, Second Hospital, Hebei University, Shijiazhuang, China. Published “MYD88 Mutation Analysis of a Rare Composite Chronic Lymphocyte Leukemia and Lymphoplasmacytic Lymphoma Using Flow Cytometry Cell Sorting. *Annals of Hematology*” Vol 94, Issue 11, 1941-1944. 2015. Ms. No. AOHE-D-15-00259R1
- f. Juan Ma, MD/PhD: Received Berend Houwen Travel Award and Selected for plenary presentation at XXVIIIth International Symposium on Technological Innovations in Laboratory Hematology, May 2015, titled “Epigenetic-Regulator and Splicing-Gene Mutations in Acute Myelomonocytic Leukemia (AMML) and Acute Monocytic Leukemia (AMoL)” and Distinguished Abstract Award for AACC 2015 annual meeting, July 2015, titled “Mutation Analysis by Next Generation Sequencing (NGS) in de-novo Acute Myeloid Leukemia (AML)”

- g. Weiwei Wang, MD/PhD: Director of flow cytometry laboratory, Xihua Hospital in Shanghai. Published “Clinical applications of monitoring immune status with 90 immune cell subsets in human whole blood by 10-color flow cytometry” . International Journal of Laboratory Hematology. April 2021
- h. Francisco Tria MD: Director of Laboratory in Philippine. Published “Somatic Mutational Analysis using Next Generation Sequencing in Predicting Disease Behavior of Cytogenetically Normal Myelodysplastic Syndromes”. International Journal of Blood Research and Disorders. March 24, 2021

Grand Rounds:

Resident/Fellows

1. Katie Siechen: Feb. 2006 Mastocytosis
2. Karen MacDonell: Oct. 2007 FISH and its application to Hematologic disorders
3. Frank Cruz: Feb. 2008 Lymphomatoid Papulosis
4. Craig Midgen: April. 2009 Inherited Bone Marrow Failure
5. Eric A Goranson: Sept. 2010. “In situ” Follicular lymphoma-one end of the spectrum
6. Jennifer Dunlap: Sept. 2010. Biology of High Grade B-cell Lymphoma
7. Jennifer Dunlap: Feb. 2011. High-Throughput Mutation Analysis in Acute Myeloid Leukemia
8. Gang Xu: Sept. 2011 Cutaneous B-cell lymphoma
9. Jason Schallheim: Dec. 2012 LGL
10. Erin Merboth: Feb. 2013 Hemophagocytic Lymphohistiocytosis
11. Amariak Jensen: May 2013 Plasma Cell Myeloma
12. Ranjana Arora: Dec. 2013 PTLN
13. Amariak Jensen: Feb. 2014 Cytogenetics vs FISH in AML
14. Brian Brinkerhoff: Feb. 2014 Core-Binding Factor AML
15. Xiaohua Wang: April. 2014 Hairy cell leukemia
16. Xiaohua Wang: Oct. 2015 BCR-ABL negative lymphocytosis
17. Erica Reinig: Feb. 18, 2015 Granulomatous lymphadenitis
18. Zhuang Feng: Feb. 4, 2015 Hematologic Neoplasms with Plasmacytic Differentiation
19. Ying Wang: May 2015 Update on molecular abnormalities of myelodysplastic syndrome
20. Ranjana Arora: June 2015 Precision Medicine in Myeloid Hematologic Neoplasms
21. Aleksandra Paliga 2016: Mutations Detected by Next Generation Sequencing in Acute Myeloid Leukemia
22. Xiaohua Wang 2016: CHIP
23. Ying Wang 2018: Molecular Landscape of Classical myeloproliferative neoplasms: JAK2, MPL, CALR.