Stanford

Kathleen M. Sakamoto

Shelagh Galligan Professor in the School of Medicine

Pediatrics - Hematology & Oncology

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Hematology and Oncology**
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  MC 5798
  Palo Alto, CA 94304
  Tel (650) 723-5535 **Fax** (650) 723-5231

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**
  Dept. of Pediatrics - Administrative Associate
  Email anika.lagto@stanford.edu
  Tel 650-723-5535

Bio

BIO

Dr. Sakamoto received her B.A. in Biology from Williams College and her M.D. from the University of Cincinnati. She was a pediatric resident and hematology/oncology fellow at Children's Hospital Los Angeles. Dr. Sakamoto was a research fellow at UCLA and then was a faculty member at UCLA in the Department of Pediatrics, Division of Hematology/Oncology for over 20 years. She received her Ph.D. in Biology from the California Institute of Technology. Dr. Sakamoto was the Division Chief of Pediatric Hematology/Oncology at UCLA for six years and was the Vice-Chair of Research in the Department of Pediatrics; co-Associate Director of the Signal Transduction Program Area of the UCLA Jonsson Comprehensive Cancer Center, and co-Chair of the UCLA Clinical and Translational Science Institute, Committee for Maternal, Child, and Adolescent Health. From 2011-2014, she was the Division Chief of Pediatric Hematology/Oncology/Stem Cell Transplant/Cancer Biology at Lucile Packard Children's Hospital at Stanford. Dr. Sakamoto was the Fellowship Program Director and is the P.I. of an NIH T32 training grant at Stanford. Dr. Sakamoto was a member and Chair of the Academic Promotions Committee at Stanford University of School of Medicine. Currently, she is a member of the Child Health Research Institute Executive Committee at Stanford University. Nationally, she has been a standing and ad hoc member of National Institutes of Health grant review committees for the past 15 years. She is Chair of the Bear Necessities Scientific Review Committee. Dr. Sakamoto is currently a member of the NIDDK Council.

Dr. Sakamoto's research has focused on signaling pathways and gene regulation in normal and aberrant hematopoiesis, including leukemia and bone marrow failure syndromes. She is specifically interested in targeted therapies for leukemia and other types of pediatric cancers. Dr. Sakamoto has been funded by the National Institutes of Health for 28 years. She currently holds the Shelagh Galligan Endowed Professorship and has received awards from the American Cancer Society, Leukemia & Lymphoma Society, Bear Necessities, and CDMRP(DOD). She is developing novel therapies to target CREB for the treatment of acute leukemia and bone marrow failure syndromes. Promising small molecule compounds that are effective in the lab and nontoxic will be tested and optimized to take to the clinic for patients with relapsed leukemia and Diamond Blackfan Anemia. This will provide novel approaches to treat leukemia in children.

CLINICAL FOCUS

- Pediatric Hematology-Oncology

- Leukemia

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Hematology & Oncology
- Member, Bio-X
- Member, SPARK at Stanford
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Fellowship Program Director, Division of Pediatric Hematology-Oncology, Stanford University School of Medicine, (2011-2013)
- Chief, Division of Pediatric Hematology/Oncology/Stem Cell Transplantation/Cancer Biology, Bass Cancer Center, Lucile Packard Children's Hospital, (2011-2014)
- Member, Maternal Child Health Research Institute, Stanford University, (2013- present)
- Member, Appointments and Promotions Committee, Stanford University School of Medicine, (2014-2020)
- Program Director, NIH Training in Pediatric Nonmalignant Hematology and Stem Cell Biology, Stanford University, (2015-2025)
- Chair, Stanford School of Medicine Academic and Promotions Committee, (2019-2020)
- Co-Director, NIDDK R25 Hematology Internship Program, (2022-2027)
- Hematology PI, NIDDK U2C/TL1 Training Program, (2023-2028)

HONORS AND AWARDS

- Victor E. Stork Award, Children's Hospital of Los Angeles (1988)
- STOP Cancer Career Development award, UCLA Jonsson Comprehensive Cancer Center (1992)
- Young Investigator Award, American Society of Pediatric Hematology/Oncology (1994)
- Junior Faculty Ross Research Award, Western Society for Pediatric Research (1996)
- Gift of Hope Award, Pediatric Cancer Research Foundation (2008)
- Fernbach Distinguished Visiting Professor Lectureship, Texas Children's Cancer Center (2009)
- Outstanding advances in cancer research award, Mendiburu Magic Foundation (2010)
- Brett Ely Visiting Professor in Pediatric Oncology, University of Colorado and Children's Hospital Denver (2011)
- Chair, Myeloid Biology Subcommittee, American Society of Hematology (2011)
- Standing Member, NIDDK-D Study Section for Training Grants and K awards (2011-2016)
- Shelagh Galligan Endowed Chair, Stanford University (2012)
- Jason Bennette Memorial Lectureship, Cohen Children's Hospital, Long Island, NY (2013)
- Steven Rosen Endowed Lectureship, Northwestern University School of Medicine (2015)
- Pediatric Cancer Research Foundation Memorial Lecture Honoree, Pediatric Cancer Research Foundation (2016)
- Specialized Training and Research (STAR) Program Alumni Achievement Award, UCLA (2019)
- NIDDK Council Member, National Institutes of Health (2020-2023)
- Award for Outstanding Mentoring, Pediatric Hematology/Oncology/Stem Cell Transplantation Fellowship Program, Stanford University (2024)
- Cherry Feig Endowed Lecturer, UCLA (2024)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Advisory Board, St. Baldrick's Foundation (2016 - present)
- Chair, Physician Scientist Special interest Group, American Society of Pediatric Hematology/Oncology (2017 - 2020)
- Chair, Scientific Review Committee, Bear Necessities Foundation (2017 - 2020)
- Grant Review Committee, Scholar Awards, American Society of Hematology (2017 - present)
- Scientific Advisory Committee, Alex's Lemonade Stand Foundation (2017 - present)

PROFESSIONAL EDUCATION

- Residency: Children's Hospital Los Angeles Pediatric Residency (1988) CA
- Fellowship: Children's Hospital Los Angeles (1991) CA
- Board Certification: Pediatrics, American Board of Pediatrics (1989)
- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (1992)
- Medical Education: University of Cincinnati College of Medicine (1985) OH
- B.A., Williams College , Biology (1979)
- M.D., University of Cincinnati College of Medicine , Medicine (1985)
- Ph.D., California Institute of Technology , Biology (2004)
- Internship and Residency, Children's Hospital Los Angeles , Pediatrics (1988)
- Fellowship, Children's Hospital Los Angeles , Pediatric Hematology/Oncology (1991)
- Postdoctoral Fellowship, UCLA School of Medicine , Hematopoietic growth factors and signal transduction (1992)

PATENTS

- Kathleen Sakamoto, Raymond Deshaies, Craig Crews. "United States Patent CIT3284 Proteolysis Targeting Chimeric Pharmaceutical", California Institute of Technology
- Kathleen Sakamoto and Mark Wilkes. "United States Patent S20-270 U.S. Provisional Application No.: 63/046,877 (STAN-1769PRV) Small molecules to target Nemo-like Kinase for treatment of bone marrow failure syndromes", Stanford University
- Soichi Wakatsuki, Wah Chiu, Naoki Horikoshi, Kathleen Sakamoto. "United States Patent STAN-S20-404 Protein double-shell nano structures for guiding drug discovery", Stanford University
- Kathleen Sakamoto, Mark Smith, Bryan Mitton, Hee-Don Chae. "United States Patent STAN-1280WO (S15-428) Inhibitors of CREB:CBP Interaction for Treatment of Acute Myeloid Leukemia", Stanford University, Mar 10, 2017

LINKS

- My Lab Site: http://sakamotolab.com/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Transcriptional regulation in leukemogenesis

CREB is a leucine zipper transcription factor that controls cell proliferation, differentiation, and survival. CREB is overexpressed in bone marrow cells from the majority of patients with acute lymphoblastic and myeloid leukemia. CREB transgenic mice develop myeloproliferative disease, i.e. preleukemia, but not acute leukemia. Therefore, CREB is an oncogene that requires additional mutations. We are studying other cooperating oncogenes that contribute to leukemogenesis. In addition, downstream target genes are being explored. We are also studying a small molecule inhibitor of CREB for the treatment of acute leukemia.

Targeted therapy for leukemia and other cancers

In collaboration with pharmaceutical companies, we are testing novel compounds to target specific signaling molecules in AML. Among the small molecules being studied in vitro and in vivo are inhibitors of receptor tyrosine kinases, aurora kinases, and anti-apoptotic proteins. Mechanistic pathways are being investigated.

Protacs are chimeric molecules to target cancer causing proteins for ubiquitination and degradation. We have demonstrated the feasibility of using this approach in prostate and breast cancer cell lines to target the androgen and estrogen receptors for ubiquitination and degradation, resulting in apoptosis. Approaches are being developed to design Protacs for clinical trials in humans.

Signaling Pathways in bone marrow failure syndromes

Defects in ribosome biogenesis have been associated with specific bone marrow failure syndromes, such as Diamond Blackfan Anemia. We are studying the signaling pathways that are altered by deficiency in specific ribosomal protein subunits. Zebrafish, mouse, and human cells are being used to characterize p53-dependent and independent pathways mediating aberrant erythropoiesis and increased risk of cancer in these patients. Novel drugs are being tested.

CLINICAL TRIALS

- Genome, Proteome and Tissue Microarray in Childhood Acute Leukemia, Recruiting
- Phase I Niclosamide (ANA001) in Pediatric & Young Adult Patients w/ Relapsed and Refractory AML, Recruiting
- Pharmacogenomic Analysis in Pediatric Acute Lymphoblastic Leukemia, Not Recruiting
- Phase I CD19/CD22 Chimeric Antigen Receptor T Cells in Peds Recurrent/Refractory B Cell Malignancies, Not Recruiting
- Phase II CTL019 in Pediatric Relapsed and Refractory B-Cell Acute Lymphoblastic Leukemia, Not Recruiting
- Phase II CTL019 in Pediatric Relapsed and Refractory B-Cell Acute Lymphoblastic Leukemia, Not Recruiting

PROJECTS

- Targeted Therapy for Leukemia and Other Cancers - Stanford University

Teaching

COURSES

2024-25

- Scientific Integrity: Responsible Conduct of Research: PEDS 255 (Win)

2023-24

- Scientific Integrity: Responsible Conduct of Research: PEDS 255 (Win)

2022-23

- Scientific Integrity: Responsible Conduct of Research: PEDS 255 (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Ryan Sathianathen

Doctoral Dissertation Reader (AC)

Cassandra Stawicki

Postdoctoral Faculty Sponsor

Hye Na Kim, Gavin Traber, Tiffany Ybarra

Undergraduate Major Advisor

Nicholas Neoman

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

Publications

PUBLICATIONS

- **Diamond Blackfan anemia is mediated by hyperactive Nemo-like kinase.** *Nature communications*
  Wilkes, M. C., Siva, K., Chen, J., Varetti, G., Youn, M. Y., Chae, H., Ek, F., Olsson, R., Lundback, T., Dever, D. P., Nishimura, T., Narla, A., Glader, et al
  2020; 11 (1): 3344
- **MMP9 inhibition increases erythropoiesis in RPS14-deficient del(5q) MDS models through suppression of TGF-beta pathways.** *Blood advances*
  Youn, M., Huang, H., Chen, C., Kam, S., Wilkes, M. C., Chae, H., Sridhar, K. J., Greenberg, P. L., Glader, B., Narla, A., Lin, S., Sakamoto, K. M.
  2019; 3 (18): 2751–63
- **Innate immune system activation in zebrafish and cellular models of Diamond Blackfan Anemia** *SCIENTIFIC REPORTS*
  Danilova, N., Wilkes, M., Bibikova, E., Youn, M., Sakamoto, K. M., Lin, S.
  2018; 8: 5165
- **Niclosamide suppresses acute myeloid leukemia cell proliferation through inhibition of CREB-dependent signaling pathways** *ONCOTARGET*
  Chae, H., Cox, N., Dahl, G. V., Lacayo, N. J., Davis, K. L., Capolicchio, S., Smith, M., Sakamoto, K. M.
  2018; 9 (4): 4301–17
- **Small molecule inhibition of cAMP response element binding protein in human acute myeloid leukemia cells.** *Leukemia*
  Mitton, B., Chae, H., Hsu, K., Dutta, R., Aldana-Masangkay, G., FERRARI, R., Davis, K., Tiu, B. C., Kaul, A., Lacayo, N., Dahl, G., Xie, F., Li, et al
  2016
- **Small molecule screen for inhibitors of expression from canonical CREB response element-containing promoters.** *Oncotarget*
  Mitton, B., Hsu, K., Dutta, R., Tiu, B. C., Cox, N., McLure, K. G., Chae, H., Smith, M., Eklund, E. A., Solow-Cordero, D. E., Sakamoto, K. M.
  2016; 7 (8): 8653-8662
- **Biology of the bone marrow microenvironment and myelodysplastic syndromes.** *Molecular genetics and metabolism*
  Rankin, E. B., Narla, A., Park, J. K., Lin, S., Sakamoto, K. M.
  2015; 116 (1-2): 24-28
- **Replication factor C3 is a CREB target gene that regulates cell cycle progression through the modulation of chromatin loading of PCNA** *LEUKEMIA*
  Chae, H., Mitton, B., Lacayo, N. J., Sakamoto, K. M.
  2015; 29 (6): 1379-1389
- **Targeting novel signaling pathways for resistant acute myeloid leukemia** *MOLECULAR GENETICS AND METABOLISM*
  Sakamoto, K. M., Grant, S., Saleiro, D., Crispino, J. D., Hijiya, N., Giles, F., Platanias, L., Eklund, E. A.
  2015; 114 (3): 397-402
- **The Multitargeted Receptor Tyrosine Kinase Inhibitor Linifanib (ABT-869) Induces Apoptosis through an Akt and Glycogen Synthase Kinase 3 beta-Dependent Pathway** *MOLECULAR CANCER THERAPEUTICS*
  Hernandez-Davies, J. E., Zape, J. P., Landaw, E. M., Tan, X., Presnell, A., Griffith, D., Heinrich, M. C., Glaser, K. B., Sakamoto, K. M.
  2011; 10 (6): 949-959

- **CREB and leukemogenesis.** *Critical reviews in oncogenesis*
  Cho, E., Mitton, B., Sakamoto, K. M.
  2011; 16 (1-2): 37-46

- **Ribosomal protein S19 deficiency in zebrafish leads to developmental abnormalities and defective erythropoiesis through activation of p53 protein family** *BLOOD*
  Danilova, N., Sakamoto, K. M., Lin, S.
  2008; 112 (13): 5228-5237

- **The role of CREB as a proto-oncogene in hematopoiesis and in acute myeloid leukemia** *CANCER CELL*
  Shankar, D. B., Cheng, J. C., Kinjo, K., Federman, N., Moore, T. B., Gill, A., Rao, N. P., Landaw, E. M., Sakamoto, K. M.
  2005; 7 (4): 351-362

- **Ubistatins inhibit proteasome-dependent degradation by binding the ubiquitin chain** *SCIENCE*
  Verma, R., Peters, N. R., D'onofrio, M., Tochtrop, G. P., Sakamoto, K. M., Varadan, R., Zhang, M. S., Coffino, P., Fushman, D., Deshaies, R. J., King, R. W.
  2004; 306 (5693): 117-120

- **Development of protacs to target cancer-promoting proteins for ubiquitination and degradation** *MOLECULAR & CELLULAR PROTEOMICS*
  Sakamoto, K. M., Kim, K. B., Verma, R., Ransick, A., Stein, B., Crews, C. M., Deshaies, R. J.
  2003; 2 (12): 1350-1358

- **Protacs: Chimeric molecules that target proteins to the Skp1-Cullin-F box complex for ubiquitination and degradation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Sakamoto, K. M., Kim, K. B., Kumagai, A., Mercurio, F., Crews, C. M., Deshaies, R. J.
  2001; 98 (15): 8554-8559

- **Net1 stimulates RNA polymerase I transcription and regulates nucleolar structure independently of controlling mitotic exit** *MOLECULAR CELL*
  Shou, W. Y., Sakamoto, K. M., Keener, J., Morimoto, K. W., Traverso, E. E., Azzam, R., Hoppe, G. J., Feldman, R. M., DeModena, J., Moazed, D., Charbonneau, H., Nomura, M., Deshaies, et al
  2001; 8 (1): 45-55

- **State-transition model of time-series single-cell RNA-seq identifies gene-level origins of disease microstate stability in chronic myeloid leukemia (CML).**
  Frankhouser, D., Dey, A., Ambriz, J., Chen, Z., O'Meally, D., Fu, Y., Irizarry, J., Ybarra, T., Sathianathen, R., Trent, J., Forman, S. J., Sakamoto, K. M., Kuo, et al
  AMER ASSOC CANCER RESEARCH.2026

- **Dendritic cell dysfunction predicts adverse prognosis in high-risk acute lymphoblastic leukemia**
  Kumar, A., Hamane, K., Duault, C., Lima-Junior, J., Jung, D., Qin, H., Salcido, S., Huang, M., Guo, X., Khani, A., Ortiz, A., Ghoda, L., Marcucci, et al
  AMER ASSOC CANCER RESEARCH.2026

- **DHODH as a Targetable Metabolic Achilles' Heel for chemo-resistant B-ALL.** *Blood*
  Liu, Y., Jiang, H., Liu, J., Stuani, L., Merchant, M. J., Jager, A., Koladiya, A., Chang, T. C., Domizi, P., Sarno, J., Wang, A., Keyes, T., Jedoui, et al
  2026

- **Tumor-induced dendritic cell dysfunction impairs T-cell proliferation and confers poor prognosis in high-risk acute lymphoblastic leukemia**
  Kumar, A., Hamane, K., Duault, C., Lima-Junior, J., Jung, D., Qin, H., Salcido, S., Huang, M., Guo, X., Khani, A., Ortiz, A., Ghoda, L., Marcucci, et al
  ELSEVIER.2025: 5138-5139

- **Single-cell tracing of myeloid leukemia evolution in down syndrome reveals a latent progenitor bridging disease onset, progression and relapse**
  Frenz-Wiessner, S., Wang, Y., Rohde, K., Quinones-Valdez, G., Issa, H., Goncalves-Dias, J., Schuschel, K., Mack, P., Ko, M., Wang, Y., Ma, F., Sakamoto, K., Chang, et al
  ELSEVIER.2025: 1472-1473

- **Aberrant cell cycle regulation and osteoblastic differentiation in diamond-blackfan anemia (DBA) mesenchymal stem cells**
  Kim, H., Viduya, J., Youm, J., Mark, K., Liu, L., Suchy, F., Nakauchi, H., Shyr, D., Goyal, A., Glader, B., Wu, J. Y., Sakamoto, K.
  ELSEVIER.2025: 747-748

- **Small molecule OTS167 increases erythropoiesis and improves anemia in diamond blackfan anemia models in vitro and In Vivo**
  Shibuya, A., Mark, K., Nair, R., Liu, L., Wilkes, M., Goyal, A., Sakamoto, K.
  ELSEVIER.2025: 3216
- **Immune Dysregulation and State-Transition Transcriptomic Signatures Underlying Pediatric Chronic Myeloid Leukemia Pathogenesis**
  Ybarra, T., Frankhouser, D., Sathianathen, R., Youn, M., Nair, R., Kuo, Y., Marcucci, G., Rockne, R., Sakamoto, K.
  ELSEVIER.2025: 1982
- **TRACING THE ORIGIN AND EVOLUTION OF MYELOID LEUKEMIA IN DOWN SYNDROME**
  Frenz-Wiessner, S., Wang, Y., Valdez, G., Mack, P., Issa, H., Rohde, K., Goncalves-Dias, J., Schuschel, K., Ko, M., Chang, V., Sakamoto, K., Xiao, X., Klusmann, et al
  ELSEVIER SCIENCE INC.2025
- **An old leukaemia in young patients-Genetic characteristics of paediatric chronic myeloid leukaemia.** *British journal of haematology*
  Metzler, M., Branford, S., Hijiya, N., Sakamoto, K.
  2025
- **Inflammatory Pathways and the Bone Marrow Microenvironment in Inherited Bone Marrow Failure Syndromes.** *Stem cells (Dayton, Ohio)*
  Neoman, N., Kim, H. N., Viduya, J., Goyal, A., Liu, Y. L., Sakamoto, K. M.
  2025
- **A Novel Mouse Model to Study the Effects of New Therapies for Diamond Blackfan Anemia.** *Blood advances*
  Liu, Y. L., Neoman, N., Sakamoto, K. M.
  2025
- **Uridine Metabolism as a Targetable Metabolic Achilles' Heel for chemo-resistant B-ALL.** *bioRxiv : the preprint server for biology*
  Liu, Y., Jiang, H., Liu, J., Stuani, L., Merchant, M., Jager, A., Koladiya, A., Chang, T. C., Domizi, P., Sarno, J., Keyes, T., Jedoui, D., Wang, et al
  2025
- **RSK1 is an exploitable dependency in myeloproliferative neoplasms and secondary acute myeloid leukemia.** *Nature communications*
  Kong, T., Laranjeira, A. B., Letson, C. T., Yu, L., Lin, S., Fowles, J. S., Fisher, D. A., Ng, S., Yang, W., He, F., Youn, M., Mark, K., Jose, et al
  2025; 16 (1): 492
- **Disease Correction of a Diamond-Blackfan Anemia Mouse Model Using Non-Genotoxic Conditioning and Hematopoietic Stem Cell Transplantation**
  Swartzrock, L., Liu, Y., Hoang, H., Ho, K., Neoman, N., Krampf, M. R., Sakamoto, K. M., Czechowicz, A. D.
  ELSEVIER.2024: 194-195
- **Can PROTACs cure Leukemia?** *Leukemia*
  Sakamoto, K. M.
  2024
- **Activation of Nemo-like Kinase in Diamond Blackfan Anemia suppresses early erythropoiesis by preventing mitochondrial biogenesis.** *The Journal of biological chemistry*
  Wilkes, M. C., Shibuya, A., Liu, Y. L., Mark, K., Mercado, J., Saxena, M., Sathianathen, R. S., Kim, H. N., Glader, B., Kenny, P., Sakamoto, K. M.
  2024: 107542
- **BCR/ABL-Positive Chronic Myeloid Leukemia in Children: Current Treatment Approach.** *Current oncology reports*
  Menger, J. M., Sathianathen, R. S., Sakamoto, K. M., Hijiya, N.
  2024
- **Aberrant Localization of Protein Kinase R in Ribosome Deficient DBA Models Disrupts Erythropoiesis By Suppressing Mitochondrial Biogenesis.**
  Wilkes, M. C., Mercado, J., Saxena, M., Sathianathen, R. S., Liu, Y., Shibuya, A., Mark, K., Kenny, P., Sakamoto, K. M.
  AMER SOC CELL BIOLOGY.2024: 757-758
- **Novel Mouse Model That Recapitulates the Hematologic Phenotype of Diamond Blackfan Anemia**
  Liu, Y., Wang, N., Neoman, N., Wong, C., Glader, B., Doty, R. T., Wilkes, M. C., Abkowitz, J. L., Sakamoto, K. M.
  AMER SOC HEMATOLOGY.2023

- **Roles of Ribosomal S6 Kinases in Acute Leukemia and Normal Hematopoiesis**
  Mark, K., Youn, M., Singh, M., Sakamoto, K. M.
  AMER SOC HEMATOLOGY.2023
- **Uridine Synthesis Is the Metabolic Vulnerability in Relapse-Associated B-ALL Cells with Active Pre-BCR Signaling**
  Liu, Y., Jiang, H., Stuani, L., Sarno, J., Domizi, P., Merchant, M., Jedoui, D., Jager, A., Huang, M., Lacayo, N. J., Sakamoto, K. M., Ye, J., Davis, et al
  AMER SOC HEMATOLOGY.2023
- **Small Molecule Inhibitor Targeting Nemo-like Kinase Improves Erythropoiesis in Human and Mouse Models of Diamond Blackfan Anemia**
  Shibuya, A., Liu, L., Wilkes, M. C., Wang, N., Daniels, L., Taylor, J., Glader, B., Sakamoto, K. M.
  AMER SOC HEMATOLOGY.2023
- **Epigenetic Profiling of PTPN11 Mutant JMML Hematopoietic Stem and Progenitor Cells Reveals an Aberrant Histone Landscape.** *Cancers*
  Sinha, R., Dvorak, M., Ganesan, A., Kalesinskas, L., Niemeyer, C. M., Flotho, C., Sakamoto, K. M., Lacayo, N., Patil, R. V., Perriman, R., Cepika, A. M., Liu, Y. L., Kuo, et al
  2023; 15 (21)
- **The Tomato Brown Rugose Fruit Virus Movement Protein Gene Is a Novel Microbial Source Tracking Marker.** *Applied and environmental microbiology*
  Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al
  2023: e0058323
- **Intrinsic suppression of type I interferon production underlies the therapeutic efficacy of IL-15-producing natural killer cells in B-cell acute lymphoblastic leukemia.** *Journal for immunotherapy of cancer*
  Kumar, A., Taghi Khani, A., Duault, C., Aramburo, S., Sanchez Ortiz, A., Lee, S. J., Chan, A., McDonald, T., Huang, M., Lacayo, N. J., Sakamoto, K. M., Yu, J., Hurtz, et al
  2023; 11 (5)
- **SATB1 chromatin loops regulate Megakaryocyte/Erythroid Progenitor Expansion by facilitating HSP70 and GATA1 induction.** *Stem cells (Dayton, Ohio)*
  Wilkes, M. C., Chae, H. D., Scanlon, V., Cepika, A. M., Wentworth, E. P., Saxena, M., Eskin, A., Chen, Z., Glader, B., Roncarolo, M. G., Nelson, S. F., Sakamoto, K. M.
  2023
- **Tomato brown rugose fruit virus Mo gene is a novel microbial source tracking marker.** *bioRxiv : the preprint server for biology*
  Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al
  2023
- **Can you hear me now? Tools for cultivating a culture of respect, value, and appreciation within pediatric hematology, oncology, and cellular therapy.** *Pediatric blood & cancer*
  Tal, A., Moerdler, S., Fernandez, C. R., Dome, J. S., Sakamoto, K. M.
  2022: e30127
- **Development of clinical pathways to improve multidisciplinary care of high-risk pediatric oncology patients.** *Frontiers in oncology*
  Reschke, A., Richards, R. M., Smith, S. M., Long, A. H., Marks, L. J., Schultz, L., Kamens, J. L., Aftandilian, C., Davis, K. L., Gruber, T., Sakamoto, K. M.
  2022; 12: 1033993
- **Animal models of Diamond-Blackfan anemia: updates and challenges.** *Haematologica*
  Liu, Y. L., Shibuya, A., Glader, B., Wilkes, M. C., Barna, M., Sakamoto, K. M.
  2022
- **Novel Small Molecule and Peptide Inhibitors of CREB in Leukemia Cells**
  Dalloul, J., Youn, M., Mark, K., Powers, A., Dror, R., Wakatsuki, S., Sakamoto, K. M.
  AMER SOC HEMATOLOGY.2022: 4949-4950
- **Niclosamide Inhibits Proliferation of Leukemia Cells and Synergizes with Chemotherapy**
  Mark, K., Robbins, M., Gamble, A., Chae, H., Bassik, M., Han, K., Sakamoto, K. M.
  AMER SOC HEMATOLOGY.2022: 8870-8871

- **Management of Chronic Myeloid Leukemia in Children and Young Adults.** *Current hematologic malignancy reports*
  Ford, M., Mauro, M., Aftandilian, C., Sakamoto, K. M., Hijiya, N.
  2022

- **Downregulation of SATB1 by miRNAs Reduces Megakaryocyte/Erythroid Progenitor Expansion in pre-clinical models of Diamond Blackfan Anemia.** *Experimental hematology*
  Wilkes, M. C., Scanlon, V., Shibuya, A., Celika, A. M., Eskin, A., Chen, Z., Narla, A., Glader, B., Roncarolo, M. G., Nelson, S. F., Sakamoto, K. M.
  2022

- **Cryo-EM, Protein Engineering, and Simulation Enable the Development of Peptide Therapeutics against Acute Myeloid Leukemia.** *ACS central science*
  Zhang, K., Horikoshi, N., Li, S., Powers, A. S., Hameedi, M. A., Pintilie, G. D., Chae, H., Khan, Y. A., Suomivuori, C., Dror, R. O., Sakamoto, K. M., Chiu, W., Wakatsuki, et al
  2022; 8 (2): 214-222

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