



Jared Andrew Wallace

Clinical Assistant Professor, Medicine - Hematology

CLINICAL OFFICE (PRIMARY)

- **Division of Hematology**

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Bio

BIO

Dr. Wallace is a Clinical Assistant Professor in the Division of Hematology at Stanford University School of Medicine. He earned his MD and PhD in Molecular Biology from University of Utah in 2020 where he studied the role of non-coding RNAs in promoting the development of myeloid malignancies. He completed his Internal Medicine residency and fellowship in Hematology and Medical Oncology at Stanford. He specializes in the diagnosis, evaluation and treatment of hematologic malignancies, with particular emphasis on multiple myeloma and acute myeloid leukemia. His current research is focused on understanding the role of the bone marrow microenvironment in promoting the development and progression of hematologic malignancies.

CLINICAL FOCUS

- Hematology
- Hematologic Malignancies
- Multiple Myeloma
- Plasma Cell Dyscrasias
- Acute Myeloid Leukemia

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Hematology

ADMINISTRATIVE APPOINTMENTS

- Hematology Division Leader for Network Sites, Stanford Health Care, (2026- present)

HONORS AND AWARDS

- Paul Wintrobe Award for Outstanding Medical Graduate, University of Utah School of Medicine (2020)
- Inductee, Alpha Omega Alpha Honor Medical Society (2019)
- Attendee, Lindau Nobel Laureate Meetings (2018)
- F30 Predoctoral Fellowship Award, National Cancer Institute - NIH (2017)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Hematology and Oncology Fellowship (2026) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2023)
- Residency: Stanford University Internal Medicine Residency (2022) CA
- Medical Education: University of Utah School of Medicine (2020) UT
- PhD, University of Utah School of Medicine , Molecular Biology (2020)

Publications

PUBLICATIONS

- **Mitochondrial Pyruvate Carrier 1 Promotes Peripheral T Cell Homeostasis through Metabolic Regulation of Thymic Development.** *Cell reports*
Ramstead, A. G., Wallace, J. A., Lee, S. H., Bauer, K. M., Tang, W. W., Ekiz, H. A., Lane, T. E., Cluntun, A. A., Bettini, M. L., Round, J. L., Rutter, J., O'Connell, R. M.
2020; 30 (9): 2889-2899.e6
- **MicroRNAs and acute myeloid leukemia: therapeutic implications and emerging concepts.** *Blood*
Wallace, J. A., O'Connell, R. M.
2017; 130 (11): 1290-1301
- **miR-155 promotes FLT3-ITD-induced myeloproliferative disease through inhibition of the interferon response.** *Blood*
Wallace, J. A., Kagele, D. A., Eiring, A. M., Kim, C. N., Hu, R., Runtsch, M. C., Alexander, M., Huffaker, T. B., Lee, S. H., Patel, A. B., Mosbrugger, T. L., Voth, W. P., Rao, et al
2017; 129 (23): 3074-3086
- **Genome-Wide CRISPR-Cas9 Screen Identifies MicroRNAs That Regulate Myeloid Leukemia Cell Growth.** *PloS one*
Wallace, J., Hu, R., Mosbrugger, T. L., Dahlem, T. J., Stephens, W. Z., Rao, D. S., Round, J. L., O'Connell, R. M.
2016; 11 (4): e0153689
- **Oncogenic SF3B1 mutations alter the splicing of mRNA noncoding regions to induce a novel therapeutic vulnerability.** *Blood*
Sekrecki, M., Sekrecka, A., Lattupally, R. R., Le, K., Jin, X., Mozes, C., Dwyer, B. G., Zhuang, Z., Romero, B. A., Pineda, J. M., Cao, X., Nguyen, L., Chen, et al
2026
- **miRNA-1 promotes acute myeloid leukemia cell pathogenesis through metabolic regulation.** *Frontiers in genetics*
Ghazaryan, A., Wallace, J. A., Tang, W. W., Barba, C., Lee, S. H., Bauer, K. M., Nelson, M. C., Kim, C. N., Stubben, C., Voth, W. P., Rao, D. S., O'Connell, R. M.
2023; 14: 1192799
- **Nef enhances HIV-1 replication and infectivity independently of SERINC5 in CEM T cells.** *Virology*
Ramirez, P. W., Vollbrecht, T., Acosta, F. M., Suarez, M., Angerstein, A. O., Wallace, J., O'Connell, R. M., Guatelli, J.
2023; 578: 154-162
- **The mitochondrial metal transporters mitoferrin1 and mitoferrin2 are required for liver regeneration and cell proliferation in mice.** *The Journal of biological chemistry*
Seguin, A., Jia, X., Earl, A. M., Li, L., Wallace, J., Qiu, A., Bradley, T., Shrestha, R., Troadec, M. B., Hockin, M., Titen, S., Warner, D. E., Dowdle, et al
2020; 295 (32): 11002-11020
- **T Cell-Expressed microRNA-155 Reduces Lifespan in a Mouse Model of Age-Related Chronic Inflammation.** *Journal of immunology (Baltimore, Md. : 1950)*
Ekiz, H. A., Ramstead, A. G., Lee, S. H., Nelson, M. C., Bauer, K. M., Wallace, J. A., Hu, R., Round, J. L., Rutter, J., Drummond, M. J., Rao, D. S., O'Connell, R. M.
2020; 204 (8): 2064-2075
- **Anti-inflammatory microRNA-146a protects mice from diet-induced metabolic disease.** *PLoS genetics*
Runtsch, M. C., Nelson, M. C., Lee, S. H., Voth, W., Alexander, M., Hu, R., Wallace, J., Petersen, C., Panic, V., Villanueva, C. J., Evason, K. J., Bauer, K. M., Mosbrugger, et al

2019; 15 (2): e1007970

- **The pro-inflammatory microRNA-155 promotes FLT3-ITD-induced myeloproliferative disease through inhibition of interferon signaling**
Wallace, J. A., O'Connell, R.
AMER ASSOC IMMUNOLOGISTS.2018
- **Rab27-Dependent Exosome Production Inhibits Chronic Inflammation and Enables Acute Responses to Inflammatory Stimuli.** *Journal of immunology (Baltimore, Md. : 1950)*
Alexander, M., Ramstead, A. G., Bauer, K. M., Lee, S. H., Runtsch, M. C., Wallace, J., Huffaker, T. B., Larsen, D. K., Tolmachova, T., Seabra, M. C., Round, J. L., Ward, D. M., O'Connell, et al
2017; 199 (10): 3559-3570
- **Antitumor immunity is defective in T cell-specific microRNA-155-deficient mice and is rescued by immune checkpoint blockade.** *The Journal of biological chemistry*
Huffaker, T. B., Lee, S. H., Tang, W. W., Wallace, J. A., Alexander, M., Runtsch, M. C., Larsen, D. K., Thompson, J., Ramstead, A. G., Voth, W. P., Hu, R., Round, J. L., Williams, et al
2017; 292 (45): 18530-18541
- **Reductions in the mitochondrial ABC transporter Abcb10 affect the transcriptional profile of heme biosynthesis genes.** *The Journal of biological chemistry*
Seguin, A., Takahashi-Makise, N., Yien, Y. Y., Huston, N. C., Whitman, J. C., Musso, G., Wallace, J. A., Bradley, T., Bergonia, H. A., Kafina, M. D., Matsumoto, M., Igarashi, K., Phillips, et al
2017; 292 (39): 16284-16299
- **MiR-155 Promotes FLT3-ITD-Induced Myeloproliferative Disease through Inhibition of Interferon Signaling**
Wallace, J., Kagele, D., Hu, R., Runtsch, M., Alexander, M., Huffaker, T., Mosbrugger, T., Rao, D. S., Miles, R. R., Round, J., O'Connell, R. M.
AMER SOC HEMATOLOGY.2016
- **Neonatal NET-inhibitory factor and related peptides inhibit neutrophil extracellular trap formation.** *The Journal of clinical investigation*
Yost, C. C., Schwertz, H., Cody, M. J., Wallace, J. A., Campbell, R. A., Vieira-de-Abreu, A., Araujo, C. V., Schubert, S., Harris, E. S., Rowley, J. W., Rondina, M. T., Fulcher, J. M., Koenig, et al
2016; 126 (10): 3783-3798
- **Genome-Wide Crispr-Cas9 Screen Identifies Functionally Relevant Micro-RNAs in FLT3-ITD+ AML**
Wallace, J., Kagele, D., Hu, R., Runtsch, M., Alexander, M., Huffaker, T., Mosbrugger, T., Dahlem, T., Stephens, W., Rao, D. S., Miles, R. R., Round, J., O'Connell, et al
AMER SOC HEMATOLOGY.2015
- **MicroRNA-146a constrains multiple parameters of intestinal immunity and increases susceptibility to DSS colitis.** *Oncotarget*
Runtsch, M. C., Hu, R., Alexander, M., Wallace, J., Kagele, D., Petersen, C., Valentine, J. F., Welker, N. C., Bronner, M. P., Chen, X., Smith, D. P., Ajami, N. J., Petrosino, et al
2015; 6 (30): 28556-72
- **Targeting human microRNA genes using engineered Tal-effector nucleases (TALENs).** *PloS one*
Hu, R., Wallace, J., Dahlem, T. J., Grunwald, D. J., O'Connell, R. M.
2013; 8 (5): e63074
- **Zinc pyrithione inhibits yeast growth through copper influx and inactivation of iron-sulfur proteins.** *Antimicrobial agents and chemotherapy*
Reeder, N. L., Kaplan, J., Xu, J., Youngquist, R. S., Wallace, J., Hu, P., Juhlin, K. D., Schwartz, J. R., Grant, R. A., Fieno, A., Nemeth, S., Reichling, T., Tiesman, et al
2011; 55 (12): 5753-60
- **Targeted deletion of the mouse Mitoferrin1 gene: from anemia to protoporphyria.** *Blood*
Troade, M. B., Warner, D., Wallace, J., Thomas, K., Spangrude, G. J., Phillips, J., Khalimonchuk, O., Paw, B. H., Ward, D. M., Kaplan, J.
2011; 117 (20): 5494-502