



Michael Spinner

Instructor, Medicine - Oncology

 NIH Biosketch available Online

CLINICAL OFFICES

- **Medicine**

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Bio

BIO

Dr. Michael Spinner received his undergraduate degree in music (classical guitar performance) from Emory University, received his medical degree from Vanderbilt University, and completed his internal medicine residency and hematology/oncology fellowship at Stanford University Medical Center. As a medical student, Michael participated in the National Institutes of Health Medical Research Scholars Program, working with Dr. Steven Holland on characterizing a novel immunodeficiency and bone marrow failure disorder resulting from germline GATA2 mutations (GATA2 deficiency). This work led to a new clinical protocol to better understand the natural history of GATA2 deficiency, a highly cited publication in *Blood*, and an NIH Merit Award for outstanding clinical research. At Stanford under the mentorship of Drs. Ranjana Advani, Robert Lowsky, and Peter Greenberg, Michael's research has focused on therapeutic clinical trials for patients with blood cancers, including studies of novel immunotherapies, cellular therapies, and precision medicine approaches using genomics and ex vivo drug sensitivity screening to inform personalized therapy. Under Dr. Advani's mentorship, Michael has developed particular expertise in the management of Hodgkin and non-Hodgkin lymphomas and the use of novel immunotherapies and biologically-focused therapies to treat these disorders. Michael currently sees patients with lymphoma in the Stanford Cancer Center and is actively involved in multiple clinical trials and translational research collaborations. Outside of medicine, Michael is an avid classical guitarist with a passion for classical music and jazz.

CLINICAL FOCUS

- Hematologic malignancies
- Hodgkin lymphoma
- Non-Hodgkin lymphoma
- Myelodysplastic syndrome
- Acute myeloid leukemia

- Hematopoietic cell transplantation
- Cancer immunotherapy
- Cancer genomics
- Precision medicine
- Ex vivo drug sensitivity screening
- Chimeric antigen receptor T-cell therapy
- Oncology

ACADEMIC APPOINTMENTS

- Instructor, Medicine - Oncology

HONORS AND AWARDS

- Young Investigator Award, Conquer Cancer Foundation (2020)
- Scientific Merit Award, Stanford Hematology/Oncology Fellowship Program (2020)
- ASH Clinical Research Training Institute, American Society of Hematology (2018)
- ASH Abstract Achievement Award, American Society of Hematology (2016)
- Julian Wolfsohn Award for Outstanding Performance in Internal Medicine, Stanford Internal Medicine Residency Program (2014)
- Stanford Society of Physician Scholars, Stanford University School of Medicine (2014)
- Best of Blood, first author paper selected as one of the top 15 most outstanding manuscripts in 2014, American Society of Hematology (2014)
- NIH Merit Award, for outstanding research leading to the characterization of GATA2 deficiency, National Institute of Allergy and Infectious Diseases (2014)
- Alpha Omega Alpha, Vanderbilt University School of Medicine (2014)
- Rudolph H. Kampmeier Prize in Clinical Medicine, Vanderbilt University School of Medicine (2014)
- David N. Orth Award in Endocrinology, Vanderbilt University School of Medicine (2014)
- NIH Medical Research Scholars Program Fellow, National Institutes of Health (2012-2013)
- Phi Beta Kappa, Emory University (2008)
- William H. Murdy Natural Science and Mathematics Award, Emory University (2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Clinical Oncology (2016 - present)
- Member, American College of Physicians (2014 - present)
- Member, American Society of Hematology (2014 - present)

PROFESSIONAL EDUCATION

- Board Certification: Hematology, American Board of Internal Medicine (2020)
- Board Certification: Oncology, American Board of Internal Medicine (2020)
- Fellowship: Stanford University Hematology and Oncology Fellowship (2020) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)
- Residency: Stanford University Internal Medicine Residency (2016) CA
- Medical Education: Vanderbilt University Office of the Registrar (2014) TN
- Fellow, Stanford Cancer Institute , Hematology/Oncology (2020)
- Resident, Stanford University , Internal Medicine (2016)
- M.D., Vanderbilt University School of Medicine , Medicine (2014)

- B.A., Emory University , Music (Classical Guitar Performance) (2009)

Research & Scholarship

CLINICAL TRIALS

- Study of Safety and Efficacy of Pembrolizumab and Chemotherapy in Participants With Newly Diagnosed Classical Hodgkin Lymphoma (cHL) (MK-3475-C11/KEYNOTE-C11), Recruiting
- Study of Magrolimab and Pembrolizumab in Relapsed or Refractory Classic Hodgkin Lymphoma, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Hematology (Fellowship Program)
- Oncology (Fellowship Program)

Publications

PUBLICATIONS

- **Autologous stem cell transplantation after anti-PD-1 therapy for multiply relapsed or refractory Hodgkin lymphoma.** *Blood advances*
Merryman, R. W., Redd, R. A., Nishihori, T. n., Chavez, J. n., Nieto, Y. n., Darrah, J. M., Rao, U. n., Byrne, M. T., Bond, D. A., Maddocks, K. J., Spinner, M. A., Advani, R. H., Ballard, et al
2021; 5 (6): 1648–59
- **Outcomes and prognostic factors in angioimmunoblastic T-cell lymphoma: final report from the international T-cell Project.** *Blood*
Advani, R. H., Skrypets, T., Civallero, M., Spinner, M. A., Manni, M., Kim, W. S., Shustov, A. R., Horwitz, S. M., Hitz, F., Cabrera, M. E., Dlouhy, I., Vassallo, J., Pileri, et al
2021; 138 (3): 213-220
- **Single-route CNS prophylaxis for aggressive non-Hodgkin lymphomas: real-world outcomes from 21 US academic institutions.** *Blood*
Orellana-Noia, V. M., Reed, D., McCook, A. A., Sen, J. M., Barlow, C. M., Malecek, M. K., Watkins, M. P., Kahl, B. S., Spinner, M. A., Advani, R., Voorhees, T. J., Snow, A., Grover, et al
2021
- **Allogeneic transplantation after PD-1 blockade for classic Hodgkin lymphoma.** *Leukemia*
Merryman, R. W., Castagna, L. n., Giordano, L. n., Ho, V. T., Corradini, P. n., Guidetti, A. n., Casadei, B. n., Bond, D. A., Jaglowski, S. n., Spinner, M. A., Arai, S. n., Lowsky, R. n., Shah, et al
2021
- **T follicular helper phenotype predicts response to histone deacetylase inhibitors in relapsed/refractory peripheral T-cell lymphoma.** *Blood advances*
Ghione, P. n., Faruque, P. n., Mehta-Shah, N. n., Seshan, V. n., Ozkaya, N. n., Bhaskar, S. n., Yeung, J. n., Spinner, M. A., Lunning, M. n., Inghirami, G. n., Moskowitz, A. n., Galasso, N. n., Ganesan, et al
2020; 4 (19): 4640–47
- **Ex vivo drug screening defines novel drug sensitivity patterns for informing personalized therapy in myeloid neoplasms.** *Blood advances*
Spinner, M. A., Aleshin, A. n., Santaguida, M. T., Schaffert, S. A., Zehnder, J. L., Patterson, A. S., Gekas, C. n., Heiser, D. n., Greenberg, P. L.
2020; 4 (12): 2768–78
- **Cost Effectiveness of Chimeric Antigen Receptor T-Cell Therapy in Multiply Relapsed or Refractory Adult Large B-Cell Lymphoma** *Journal of Clinical Oncology*
Lin, J. K., Muffly, L. S., Spinner, M. A., Barnes, J. I., Owens, D. K., Goldhaber-Fiebert, J. D.
2019
- **Nonmyeloablative TLI-ATG conditioning for allogeneic transplantation: mature follow-up from a large single-center cohort.** *Blood advances*
Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Arai, S. n., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffly, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, J. A., Weng, et al
2019; 3 (16): 2454–64

- **Modern principles in the management of nodular lymphocyte-predominant Hodgkin lymphoma** *BRITISH JOURNAL OF HAEMATOLOGY*
Spinner, M. A., Varma, G., Advani, R. H.
2019; 184 (1): 17–29
- **Risk-adapted therapy for advanced-stage Hodgkin lymphoma** *HEMATOLOGY-AMERICAN SOCIETY OF HEMATOLOGY EDUCATION PROGRAM*
Spinner, M. A., Advani, R. H.
2018: 200–206
- **Novel Approaches in Waldenstrom Macroglobulinemia** *HEMATOLOGY-ONCOLOGY CLINICS OF NORTH AMERICA*
Spinner, M. A., Varma, G., Advani, R. H.
2018; 32 (5): 875+
- **Allogeneic transplantation using TLI-ATG conditioning for Hodgkin lymphoma after failure of autologous transplantation.** *Blood advances*
Spinner, M. A., Advani, R. H., Hoppe, R. T., Lowsky, R. n., Muffly, L. S.
2018; 2 (13): 1547–50
- **New Treatment Algorithms in Hodgkin Lymphoma: Too Much or Too Little?** *American Society of Clinical Oncology educational book. American Society of Clinical Oncology. Annual Meeting*
Spinner, M. A., Advani, R. H., Connors, J. M., Azzi, J. n., Diefenbach, C. n.
2018; 38: 626–36
- **HLA-mismatched unrelated donor transplantation using TLI-ATG conditioning has a low risk of GVHD and potent antitumor activity.** *Blood advances*
Spinner, M. A., Fernández-Viña, M. n., Creary, L. E., Quinn, O. n., Elder, L. n., Arai, S. n., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffly, L. S., Negrin, R. S., Shizuru, J. A., Weng, et al
2017; 1 (17): 1347–57
- **GATA2 deficiency underlying severe blastomycosis and fatal herpes simplex virus-associated hemophagocytic lymphohistiocytosis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Spinner, M. A., Ker, J. P., Stoudenmire, C. J., Fadare, O., Mace, E. M., Orange, J. S., Hsu, A. P., Holland, S. M.
2016; 137 (2): 638-?
- **GATA2 deficiency: a protean disorder of hematopoiesis, lymphatics, and immunity** *BLOOD*
Spinner, M. A., Sanchez, L. A., Hsu, A. P., Shaw, P. A., Zerbe, C. S., Calvo, K. R., Arthur, D. C., Gu, W., Gould, C. M., Brewer, C. C., Cowen, E. W., Freeman, A. F., Olivier, et al
2014; 123 (6): 809-821
- **Increased double-negative alpha beta plus T cells reveal adult-onset autoimmune lymphoproliferative syndrome in a patient with IgG4-related disease** *HAEMATOLOGICA*
Brar, N., Spinner, M. A., Baker, M. C., Advani, R. H., Natkunam, Y., Lewis, D. B., Silva, O.
2022; 107 (1): 347-350
- **Increased double-negative $\alpha\beta$ T-cells reveal adult-onset autoimmune lymphoproliferative syndrome in a patient with IgG4-related disease.** *Haematologica*
Brar, N., Spinner, M. A., Baker, M. C., Advani, R. H., Natkunam, Y., Lewis, D. B., Silva, O.
2021
- **Pulmonary Manifestations of GATA2 Deficiency.** *Chest*
Marciano, B. E., Olivier, K. N., Folio, L. R., Zerbe, C. S., Hsu, A. P., Freeman, A. F., Filie, A. C., Spinner, M. A., Sanchez, L. A., Lovell, J. P., Parta, M., Cuellar-Rodriguez, J. M., Hickstein, et al
2021
- **Outcomes of adults with lymphoma treated with nonmyeloablative TLI-ATG and radiation boost to high risk or residual disease before allogeneic hematopoietic cell transplant.** *Bone marrow transplantation*
Dworkin, M. L., Jiang, A. L., Von Eyben, R., Spinner, M. A., Advani, R. H., Lowsky, R., Hiniker, S. M., Hoppe, R. T.
2021
- **CD20-Negative Nodular Lymphocyte-Predominant Hodgkin Lymphoma: A 20-Year Consecutive Case Series From a Tertiary Cancer Center.** *Archives of pathology & laboratory medicine*
Menke, J. R., Spinner, M. A., Natkunam, Y. n., Warnke, R. A., Advani, R. H., Gratzinger, D. A.
2020
- **Checkpoint Blockade Treatment May Sensitize Hodgkin Lymphoma to Subsequent Therapy.** *The oncologist*

- Carreau, N. A., Pail, O. n., Armand, P. n., Merryman, R. n., Advani, R. H., Spinner, n. n., Herrera, A. F., Chen, R. n., Tomassetti, S. n., Ramchandren, R. n., Hamid, n. n., Assouline, S. n., Santiago, et al
2020
- **Checkpoint blockade treatment sensitises relapsed/refractory non-Hodgkin lymphoma to subsequent therapy.** *British journal of haematology*
Carreau, N. A., Armand, P. n., Merryman, R. W., Advani, R. H., Spinner, M. A., Herrera, A. F., Ramchandren, R. n., Hamid, M. S., Assouline, S. n., Santiago, R. n., Wagner-Johnston, N. n., Paul, S. n., Svoboda, et al
2020
 - **Impact of Treatment Beyond Progression with Immune Checkpoint Blockade in Hodgkin Lymphoma.** *The oncologist*
Merryman, R. W., Carreau, N. A., Advani, R. H., Spinner, M. A., Herrera, A. F., Chen, R. n., Tomassetti, S. n., Ramchandren, R. n., Hamid, M. n., Assouline, S. n., Santiago, R. n., Nina Wagner-Johnston, N. n., Paul, et al
2020
 - **Cost-effectiveness of chimeric antigen receptor T-cell therapy in multiply relapsed or refractory adult large B-cell lymphoma.**
Lin, J., Muffly, L. S., Spinner, M., Barnes, J. I., Owens, D. K., Goldhaber-Fiebert, J. D.
AMER SOC CLINICAL ONCOLOGY.2019
 - **CD20-negative nodular lymphocyte-predominant Hodgkin lymphoma is enriched for variant patterns and shows aggressive clinical features**
Menke, J., Spinner, M., Shrestha, B., Advani, R., Natkunam, Y., Gratzinger, D.
NATURE PUBLISHING GROUP.2019
 - **Ex Vivo Drug Response Profiling Defines Novel Drug Sensitivity Patterns for Predicting Clinical Therapeutic Responses in Myeloid Neoplasms**
Aleshin, A., Santaguida, M. A., Spinner, M. A., Sanders, J. N., Patterson, A., Gekas, C., Schaffert, S., Greenberg, P. L.
AMER SOC HEMATOLOGY.2018
 - **Checkpoint Blockade Therapy May Sensitize Aggressive and Indolent Non-Hodgkin Lymphoma to Subsequent Therapy**
Carreau, N. A., Pail, O., Armand, P., Merryman, R. W., Advani, R. H., Spinner, M. A., Herrera, A. F., Chen, R. W., Tomassetti, S., Ramchandren, R., Hamid, M., Assouline, S., Santiago, et al
AMER SOC HEMATOLOGY.2018
 - **Nonmyeloablative Allogeneic Transplantation Using TLI-ATG Conditioning for Lymphoid and Myeloid Malignancies: Mature Follow-up from a Large, Single Institution Cohort**
Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Elder, L. V., Arai, S., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffly, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, et al
AMER SOC HEMATOLOGY.2018
 - **Spontaneous Heparin-Induced Thrombocytopenia Following Orthopaedic Surgery: Case Report and Review of the Literature** *Open Journal of Orthopedics*
DeBaun, M. R., Spinner, M. A., Genualdi, M. D., Berube, C., Amanatullah, D. R.
2017; 7 (12): 400-7
 - **Consolidative CD8+ memory T-cell donor lymphocyte infusion augments donor chimerism with a low risk of GVHD following matched related donor hematopoietic cell transplantation** *Blood*
Spinner, M. A., Muffly, L. S., Arai, S., Johnston, L. J., Meyer, E. H., Miklos, D. B., Negrin, R. S., Rezvani, A. R., Shizuru, J. A., Weng, W., Strober, S., Lowsky, R.
2017; 130: 2003
 - **Allogeneic Transplants from HLA-Mismatched Unrelated Donors Using Total Lymphoid Irradiation and Antithymocyte Globulin Conditioning Retain a Low Risk of Graft-Versus-Host Disease and Non-Relapse Mortality with at Least As Potent Anti-Tumor Activity As with Matched Unrelated Donors**
Spinner, M. A., Vina, M., Elder, L., Arai, S., Johnston, L., Meyer, E., Miklos, D., Muffly, L., Negrin, R. S., Shizuru, J., Weng, W., Laport, G. G., Strober, et al
AMER SOC HEMATOLOGY.2016
 - **Hemophagocytic Lymphohistiocytosis Associated with NK Cell Dysfunction and Disseminated Herpesvirus Infection in GATA2 Deficiency/Monomac Syndrome**
Spinner, M. A., Odio, C., Calvo, K. R., Hsu, A. P., Zerbe, C. S., Cuellar-Rodriguez, J., Ker, J. P., Stoudenmire, C. J., Fadare, O., Ghosh, A., Mace, E. M., Orange, J. S., Hickstein, et al
AMER SOC HEMATOLOGY.2014
 - **Large granular lymphocytes as predictors of morbidity and early mortality in GATA2 deficiency** *Journal of Clinical Immunology*
Grossman, J., Spinner, M. A., Sanchez, L. A., Hsu, A. P., Olivier, K. N., Zerbe, C. S., Calvo, K. R., Holland, S. M., Rosensweig, S. D.
2014; 34: 448-9

- **What Does the Duty to Warn Require?** *AMERICAN JOURNAL OF BIOETHICS*
Shah, S. K., Hull, S. C., Spinner, M. A., Berkman, B. E., Sanchez, L. A., Abdul-Karim, R., Hsu, A. P., Claypool, R., Holland, S. M.
2013; 13 (10): 62-63
- **Human papillomavirus infection in GATA2 haploinsufficiency and treatment with interferon alpha** *Clinical Infectious Diseases*
Zerbe, C. S., Cuellar-Rodriguez, J., Sanchez, L. A., Spinner, M. A., Bagi, P., Heller, T. T., Hickstein, D. D., Hsu, A. P., Mace, E. M., Stratton, P., Orange, J. S., Holland, S. M.
2013: 1751
- **GATA2 deficiency: extended clinical phenotype in 57 patients** *Journal of Clinical Immunology*
Spinner, M. A., Sanchez, L. A., Hsu, A. P., Calvo, K. R., Cuellar-Rodriguez, J., Hickstein, D. D., Holland, S. M.
2013; 33: 672
- **Duodenal histoplasmosis presenting with upper gastrointestinal bleeding in an AIDS patient.** *Case reports in gastrointestinal medicine*
Spinner, M. A., Paulin, H. N., Wester, C. W.
2012; 2012: 515872-?
- **Glucagon-like peptide-1 promotes beta cell proliferation and improves glycemic control in a murine model of neonatal diabetes** *Endocrine Reviews*
Spinner, M. A., Papagiannis, I. G., Dai, C., Powers, A. C.
2011; 32: 490