



Lucas Kipp

Clinical Associate Professor, Adult Neurology

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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ACADEMIC CONTACT INFORMATION

- **Academic/Administrative Contact**

Amy Singh - Administrative Associate

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Bio

BIO

Dr. Kipp specializes in the diagnosis and treatment of neuroimmunological disorders, particularly demyelinating conditions such as multiple sclerosis and neuromyelitis optica. He is interested in translational research connecting expert MS clinicians, world-renown immunology laboratories, and advanced neuroimaging techniques to identify biomarkers of disease and treatment response.

CLINICAL FOCUS

- Multiple Sclerosis
- Demyelinating Diseases
- Neuroimmunology
- Clinical Neurophysiology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Adult Neurology

ADMINISTRATIVE APPOINTMENTS

- Service Representative, Medical Executive Committee (MEC), Stanford Health Care (SHC), (2024- present)
- Co-Lead Quarter 6, Practice of Medicine II, Stanford University, School of Medicine, (2020- present)
- Faculty Coach, Neurology Resident Communication Coaching Program, Department of Neurology & Neurological Sciences, Stanford University, (2019- present)
- Director, Neurology Grand Rounds, Department of Neurology & Neurological Sciences, Stanford University, (2018-2023)
- Education Chief, Division of Clinical Neuroimmunology, Department of Neurology & Neurological Sciences, Stanford University, (2016- present)
- Director, MS/Clinical Neuroimmunology Fellowship, Department of Neurology & Neurological Sciences, Stanford University, (2016- present)

HONORS AND AWARDS

- Lysia S. Forno Award for Outstanding Contributions to Resident Teaching, Stanford University, Department of Neurology & Neurological Sciences (2023)

- Science Breakthrough of the Year, runner-up, American Association for the Advancement of Science (2022)
- Top 10 Master Neurology Outpatient Educators, Stanford Neurology Residents (2022)
- Henry J. Kaiser Family Foundation Award for Excellence in Clinical Teaching, Stanford University, School of Medicine (2019)
- Medical Student Neurology Clinical Clerkship Faculty Teaching Award, Stanford University, Department of Neurology & Neurological Sciences (2017, 2018, 2020, 2021, 2022)
- MS Clinical Fellowship Award, Canadian Network of Multiple Sclerosis Clinics (2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, Royal College of Physicians and Surgeons of Canada (2014 - present)
- Member, American Academy of Neurology (2008 - present)
- Member, National Consortium of MS Clinics (2016 - present)

PROFESSIONAL EDUCATION

- Clinical Fellowship, Stanford University, School of Medicine , MS/Neuroimmunology (2016)
- Research Fellowship, University College London, London, UK , MS Advanced Neuroimaging (2015)
- Neurology Residency, University of British Columbia, Vancouver, Canada (2014)
- Doctor of Medicine (MD), University of Western Ontario, London, Canada (2009)
- Bachelor of Science (BSc), University of Western Ontario, London, Canada (2005)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- A Study to Evaluate Efficacy, Safety, and Tolerability of EID of Natalizumab (BG00002) in Participants With RRMS Switching From Treatment With Natalizumab SID in Relation to Continued SID Treatment- Followed by Extension Study Comprising SC and IV Natalizumab Administration, Not Recruiting
- A Study to Evaluate the Efficacy, Safety and Pharmacokinetics (PK) of a Higher Dose of Ocrelizumab in Adults With Primary Progressive Multiple Sclerosis (PPMS), Not Recruiting
- A Study to Evaluate the Efficacy, Safety and Pharmacokinetics (PK) of a Higher Dose of Ocrelizumab in Adults With Relapsing Multiple Sclerosis (RMS), Not Recruiting
- Study to Evaluate the Efficacy and Safety of Fenebrutinib Compared With Teriflunomide in Relapsing Multiple Sclerosis (RMS), Not Recruiting

Teaching

COURSES

2023-24

- Practice of Medicine VI: INDE 206 (Spr)

2022-23

- Practice of Medicine VI: INDE 206 (Spr)

Publications

PUBLICATIONS

- **Multiparameter flow cytometry of CSF identifies elevated CD8+ effector memory and TEMRA T-cells in immune-mediated neurologic disorders.** *Journal of neuropathology and experimental neurology*
Wu, D., Zhang, S., Jamal, Y. A., Sarkar, T. T., Tomczak, A., Sumera, J., Oak, J., Melamed, E., Nie, E., Galetta, K., McDonald, J., Lock, C., Kipp, et al

2026

- **EBV reprograms autoreactive anti-CNS B cells as antigen presenting cells in multiple sclerosis.** *bioRxiv : the preprint server for biology*
Younis, S., Rasouli, S., Loeffler, J. W., Sattarnezhad, N., Courtney, Y., Moutusy, S. I., Jahanbani, S., Pandit, M., Tomczak, A., Wong, H. H., Sharpe, O., Utz, P. J., Meffre, et al
2026
- **Major depressive disorder in multiple sclerosis associated with differences in disease modifying therapy and demographics.** *Frontiers in neurology*
Lee, N. J., Hui, G., Pike, C. W., Galetta, K., Kipp, L. B., Dunn, J., Le, S., Folmsbee, S. S.
2025; 16: 1663778
- **Distinct Reactivity Patterns to EBV Nuclear Proteins and CNS Antigens Distinguish CNS Demyelinating Disorders from Systemic Autoimmunity**
Sattarnezhad, N., Held, F., Babaei, M., Gawde, S., Ho, P., Barrett, A., Wijerante, T., Comanescu, A., Parsafar, S., Bartels, F., McDonald, J., Kipp, L., Van Haren, et al
SAGE PUBLICATIONS LTD.2025: 309-310
- **Longitudinal study of foveal scattering features in multiple sclerosis using adaptive optics scanning light ophthalmoscopy**
Hargrave, A., Buickians, D., Ayubi, G., Parthasarathi, P., Navarro, S., Kowalski, B., Kipp, L., Han, M. H., Dubra, A., Moss, H.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **High-dimensional, targeted immunogenetic profiles of "idiopathic" myelitis with correlative risk and protective factors**
Sarkar, T., Sumera, J., Tomczak, A., Bachar, S., Ton-Nu, C., Joseph, Y., Lee, J., Osoegawa, K., Vina, M., Wu, D., Nie, E., Sattarnezhad, N., McDonald, et al
SAGE PUBLICATIONS LTD.2024: 1230-1231
- **Paired serum and CSF immunoprofiling guides treatment of refractory CNS autoimmunity**
Wu, D., Sarkar, T., Nie, E., Galetta, K., McDonald, J., Tomczak, A., Sumera, J., Kipp, L., Lock, C., Dunn, J., Han, M.
SAGE PUBLICATIONS LTD.2024: 1196
- **Single-cell peripheral immunoprofiling of lewy body and Parkinson's disease in a multi-site cohort.** *Molecular neurodegeneration*
Phongpreecha, T., Mathi, K., Cholerton, B., Fox, E. J., Sigal, N., Espinosa, C., Reincke, M., Chung, P., Hwang, L. J., Gajera, C. R., Berson, E., Perna, A., Xie, et al
2024; 19 (1): 59
- **Longitudinal foveal adaptive optics scanning laser ophthalmoscopy in multiple sclerosis**
Hargrave, A., Buickians, D., Navarro, S., Parthasarathi, P., Kipp, L., Han, M., Zavalla, G., Kowalski, B., Dubra, A., Moss, H. E.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **In Vivo OCT Imaging of Muller and Macrophage-Like Cells in the Retinas of Patients with and without MS and related diseases**
Elizabeth, S., Navarro, V., Han, M., Kipp, L., Hargrave, A., Parthasarathi, P., Sylvestre-Bouchard, A., Dubra, A., Moss, H. E.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2024
- **Clinical Features of Neurotoxicity Following CD19 CAR T-cell Therapy in Mantle Cell Lymphoma.** *Blood advances*
Nie, E. H., Su, Y. J., Baird, J. H., Agarwal, N., Bharadwaj, S., Weng, W. K., Smith, M., Dahiya, S., Han, M. H., Dunn, J. E., Kipp, L. B., Miklos, D. B., Scott, et al
2024
- **Evaluation of the quality and the productivity of neuroradiological reading of multiple sclerosis follow-up MRI scans using an intelligent automation software.** *Neuroradiology*
Federau, C., Hainc, N., Edjlali, M., Zhu, G., Mastilovic, M., Nierobisch, N., Uhlemann, J. P., Paganucci, S., Granziera, C., Heinzlef, O., Kipp, L. B., Wintermark, M.
2024
- **Catalytic Antibodies May Contribute to Demyelination in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.** *Biochemistry*
Jensen, M. A., Dafoe, M. L., Wilhelmy, J., Cervantes, L., Okumu, A. N., Kipp, L., Nemat-Gorgani, M., Davis, R. W.
2023
- **Epidemiological and Clinical Outcome Determinants of Post-COVID-19 Myelopathy**
Sumera, J., Sarkar, T., McDonald, J., Sattarnezhad, N., Nie, E., Kipp, L., Dunn, J., Han, M., Joseph, Y., Tomczak, A., Lock, C.

SAGE PUBLICATIONS LTD.2023: 719

- **Longitudinal imaging of microscopic scattering features in the foveal avascular zone of multiple sclerosis using adaptive optics ophthalmoscopy**
Hargrave, A., Navarro, S., Buickians, D., Kipp, L., Han, M., Kowalski, B., Dubra, A., Moss, H.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **SARS-CoV-2 Vaccine Immune Response on Anti-Complement Therapy, Eculizumab**
Sattarnejhad, N., Sumera, J., McDonald, J., Nie, E., Tomczak, A., Joseph, Y., Kalle, S., Sarkar, T., Kipp, L., Lock, C., Dunn, J. E., Han, M.
LIPPINCOTT WILLIAMS & WILKINS.2023
- **A rare neuromyelitis optica mimic: Primary CNS histiocytic sarcoma. *Multiple sclerosis (Houndmills, Basingstoke, England)***
Rogawski, D. S., Nirschl, J. J., McDonald, J., Nie, E., Schwartz, N. U., Vogel, H., Scott, B. J., Gold, C. A., Kipp, L. B.
2022; 28 (10): 1651-1654
- **Primary central nervous system histiocytic sarcoma presenting as neuromyelitis optica**
Nirschl, J., Rogawski, D., McDonald, J., Nie, E., Schwartz, N., Scott, B., Gratzinger, D., Gold, C., Kipp, L., Vogel, H.
OXFORD UNIV PRESS INC.2022: 491
- **KIR+CD8+ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19. *Science (New York, N.Y.)***
Li, J., Zaslavsky, M., Su, Y., Guo, J., Sikora, M. J., van Unen, V., Christophersen, A., Chiou, S., Chen, L., Li, J., Ji, X., Wilhelmy, J., McSween, et al
2022: eabi9591
- **Clonally Expanded B Cells in Multiple Sclerosis Bind EBV EBNA1 and GlialCAM. *Nature***
Lanz, T. V., Brewer, R. C., Ho, P. P., Moon, J. S., Jude, K. M., Fernandez, D., Fernandes, R. A., Gomez, A. M., Nadj, G. S., Bartley, C. M., Schubert, R. D., Hawes, I. A., Vazquez, et al
2022
- **Human KIR + CD8 + T cells target pathogenic T cells in Celiac disease and are active in autoimmune diseases and COVID-19. *bioRxiv : the preprint server for biology***
Li, J., Zaslavsky, M., Su, Y., Sikora, M. J., van Unen, V., Christophersen, A., Chiou, S. H., Chen, L., Li, J., Ji, X., Wilhelmy, J., McSween, A. M., Palanski, et al
2021
- **Novel Foveal Features Associated With Vision Impairment in Multiple Sclerosis. *Investigative ophthalmology & visual science***
Hargrave, A., Sredar, N., Khushzad, F., Yarp, J., Tomczak, A., Han, M., Kipp, L., Dubra, A., Moss, H. E.
2021; 62 (12): 27
- **Feasibility and acceptability of virtually coaching residents on communication skills: a pilot study. *BMC medical education***
Sasnal, M., Miller-Kuhlmann, R., Merrell, S. B., Beres, S., Kipp, L., Lee, S., Threlkeld, Z., Nassar, A. K., Gold, C. A.
2021; 21 (1): 513
- **In-depth B cell immunophenotyping to monitor response to anti-CD20 therapy in CNS autoimmunity. *Multiple sclerosis and related disorders***
Su, E., Wetzell, N. S., Oak, J., Kipp, L., Han, M. H.
2020; 46: 102594
- **Novel microscopic foveal pit pathology in multiple sclerosis revealed with adaptive optics ophthalmoscopy**
Hargrave, A., Sredar, N., Razeen, M. M., Khushzad, F., Yarp, J., Leishangthem, L., Tomczak, A., Kipp, L., Han, M., Kowalski, B., Dubra, A., Moss, H.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Characterization of Retinal vascular changes in Multiple Sclerosis using Adaptive Optics and OCTA**
Khushzad, F., Yarp, J., Hargrave, A., Sredar, N., Mahesh, V., Tomczak, A., Kipp, L., Han, M., Dubra, A., Moss, H.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Comparison of visual function and retinal structure between phases of multiple sclerosis**
Yarp, J., Khushzad, F., Leishangthem, L., Mahesh, V., Tomczak, A., Han, M., Kipp, L., Moss, H.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Association of GAD-65 Antibodies with Autonomic Dysfunction in non-Type I diabetic patients**
Bozinov, N., Kipp, L., Nguyen, L., Jaradeh, S.
LIPPINCOTT WILLIAMS & WILKINS.2020

- **Reduced neurite density in the brain and cervical spinal cord in relapsing-remitting multiple sclerosis: A NODDI study.** *Multiple sclerosis (Houndmills, Basingstoke, England)*
Collorone, S., Cawley, N., Grussu, F., Prados, F., Tona, F., Calvi, A., Kanber, B., Schneider, T., Kipp, L., Zhang, H., Alexander, D. C., Thompson, A. J., Toosy, et al
2019; 1352458519885107
- **Coexistence of Neuromyelitis Optica and Amyotrophic Lateral Sclerosis: A Case Report** *NEUROHOSPITALIST*
Li, A., McGranahan, T., Su, E., Kipp, L., Gold, C. A.
2019; 9 (1): 37–40
- **A case of GFAP-astroglial autoimmunity presenting with reversible parkinsonism.** *Multiple sclerosis and related disorders*
Tomczak, A. n., Su, E. n., Tugizova, M. n., Carlson, A. M., Kipp, L. B., Feng, H. n., Han, M. H.
2019; 39: 101900
- **Immunomodulatory receptors are differentially expressed in B and T cell subsets relevant to autoimmune disease.** *Clinical immunology (Orlando, Fla.)*
Murphy, K. A., Bhamidiphati, K. n., Rubin, S. J., Kipp, L. n., Robinson, W. H., Lanz, T. V.
2019: 108276
- **Autoimmune Hepatitis During Treatment of Multiple Sclerosis with Alemtuzumab**
Carlson, A., Bozinov, N., Kipp, L., Dunn, J., Lock, C.
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Patient-Reported Benefits of Extracranial Venous Therapy: British Columbia CCSVI Registry** *CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES*
Sadovnick, A. D., Yee, I. M., Attwell-Pope, K., Keyes, G., Kipp, L., Traboulsee, A. L.
2017; 44 (3): 246-254
- **Positive perception of pharmacogenetic testing for psychotropic medications** *HUMAN PSYCHOPHARMACOLOGY-CLINICAL AND EXPERIMENTAL*
Lanktree, M. B., Zai, G., VanderBeek, L. E., Giuffra, D. E., Smithson, D. S., Kipp, L. B., Dalseg, T. R., Speechley, M., Kennedy, J. L.
2014; 29 (3): 287-291