

# Stanford

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## May Han, MD

Associate Professor of Neurology (Adult Neurology)  
Neurology & Neurological Sciences

### CLINICAL OFFICE (PRIMARY)

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### Bio

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### CLINICAL FOCUS

- Neuroimmunology
- Multiple sclerosis (MS)
- Neuromyelitis optica
- High risk MS
- MS pregnancy
- Clinical Neurophysiology

### ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Neurology & Neurological Sciences
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

### PROFESSIONAL EDUCATION

- Fellowship: Stanford University Behavioral Neurology Fellowship (2009) CA
- Residency: University of Washington Neurology Residency (2005) WA
- Internship: University of Washington Medical Center Dept of Medicine (2002) WA
- Medical Education: Institute of Medicine 1 Yangon (1996) Myanmar
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2011)

### LINKS

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

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## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Multiple sclerosis

Neuromyelitis optica

Autoimmune CNS disorders

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## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (NonAC)

Alex Muselman

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Neurosciences (Phd Program)

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## Publications

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### PUBLICATIONS

- **Antipsychotic medications associated with increased length of hospital stay in autoimmune encephalitis and multiple sclerosis: A retrospective study.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*  
Sai Folmsbee, S., Hui, G., Yuan, Y., Gombar, S., Han, M., Le, S.  
2024; 124: 87-93
- **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
- **Prevalence, Demographic, and Clinical Factors Associated With Cognitive Dysfunction in Patients With Neuromyelitis Optica Spectrum Disorder.** *Neurology*  
Vlahovic, L., McDonald, J., Hinman, J., Tomczak, A., Lock, C., Palmer, C. A., Cook, L. J., Yeaman, M. R., Burnett, M. K., Deutsch, G. K., Nelson, L. M., Han, M. H.  
2024; 102 (1): e207965
- **A novel mouse model of cerebral adrenoleukodystrophy highlights NLRP3 activity in lesion pathogenesis.** *bioRxiv : the preprint server for biology*  
Hashemi, E., Narain Srivastava, I., Aguirre, A., Tilahan Yoseph, E., Kaushal, E., Awani, A., Kyu Ryu, J., Akassoglou, K., Talebian, S., Chu, P., Pisani, L., Musolino, P., Steinman, et al  
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
- **Blood Biomarkers Elucidate the Mechanism of Cognitive Dysfunction in Neuromyelitis Optica and Myelin Oligodendrocyte Glycoprotein Antibody Associated Disease**  
Han, M., Vlahovic, L., Wilson, E.  
SAGE PUBLICATIONS LTD.2023: 827-828
- **Impacts of Race and Immunotherapy on Maternal and Fetal Outcomes in Pregnant Patients with NMOSD and MOGAD**  
Hla, A., Sarkar, T., McDonald, J., Han, M.  
SAGE PUBLICATIONS LTD.2023: 679
- **Longitudinal imaging of microscopic scattering features in the foveal avascular zone of multiple sclerosis using adaptive optics ophthalmoscopy**

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- 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**  
Sattarnezhad, 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
  - **Influence of Body Mass Index on B Lymphocyte Repopulation in Multiple Sclerosis Patients Treated with Anti-CD20 Therapy**  
Loeffler, J., Han, M.  
LIPPINCOTT WILLIAMS & WILKINS.2023
  - **Risk of acute stroke in young patients with new-onset lupus nephritis: a case series**  
Wu, D., Han, M., Lee, S.  
LIPPINCOTT WILLIAMS & WILKINS.2023
  - **Myelin Oligodendrocyte Glycoprotein Antibody Disease (MOGAD) in conjunction with Allogeneic Bone Marrow Transplantation and Autoimmune Neutropenia: A study of two companion cases and institutional review of the MOGAD clinical phenotype spectrum**  
Nie, E., McDonald, J., Dunn, J., Han, M.  
LIPPINCOTT WILLIAMS & WILKINS.2023
  - **Clinical and epidemiological correlates of treatment change in patients with NMOSS: insights from the CIRCLES cohort.** *Journal of neurology*  
Gholizadeh, S., Exuzides, A., Lewis, K. E., Palmer, C., Waltz, M., Rose, J. W., Jolley, A. M., Behne, J. M., Behne, M. K., Blaschke, T. F., Smith, T. J., Sinnott, J., Cook, et al  
2022
  - **A Novel Mouse Model of Cerebral Demyelination in X-Linked Adrenoleukodystrophy Highlights NLRP3 Activation in Lesion Pathogenesis**  
Srivastava, I., Van Haren, K., Hashemi, E., Kaushal, E., Han, M., Lund, T., Bonkowski, J., Yoseph, E.  
WILEY.2022: S174
  - **Visualizing Sphingosine-1-Phosphate Receptor 1(S1P1) Signaling During Central Nervous System De- and Remyelination.** *Cellular and molecular neurobiology*  
Hashemi, E., Yoseph, E., Tsai, H., Moreno, M., Yeh, L., Mehta, S. B., Kono, M., Proia, R., Han, M. H.  
2022
  - **Immune cell subset profiling in multiple sclerosis after fingolimod initiation and continued treatment: The FLUENT study.** *Multiple sclerosis journal - experimental, translational and clinical*  
Mao-Draayer, Y., Cohen, J. A., Bar-Or, A., Han, M. H., Singer, B., Williams, I. M., Meng, X., Elam, C., Weiss, J. L., Cox, G. M., Ziehn, M., Cree, B. A., FLUENT study investigators  
2022; 8 (3): 20552173221115023
  - **HLA-DR4-positive Vogt-Koyanagi-Harada (VKH) Syndrome: Review of pathophysiology and clinical correlation (P1-1.Virtual)**  
Loeffler, J., Nie, E., Han, M.  
LIPPINCOTT WILLIAMS & WILKINS.2022
  - **Immune-mediated diseases and thromboembolic events: a modified Delphi panel.** *Current medical research and opinion*  
Azimi, N., Caldera, F., Cohen, S., Connors, J., Fernandes, T., Han, M., Strand, V., Tapson, V., Weinberg, A., Weinberg, J., Yarur, A.  
2021: 1
  - **CD317 puts the brakes on dendritic cell trafficking to the CNS.** *Proceedings of the National Academy of Sciences of the United States of America*  
Barnes, S. E., Han, M. H.  
2021; 118 (18)
  - **Pericytes regulate vascular immune homeostasis in the CNS.** *Proceedings of the National Academy of Sciences of the United States of America*  
Torok, O., Schreiner, B., Schaffenrath, J., Tsai, H., Maheshwari, U., Stifter, S. A., Welsh, C., Amorim, A., Sridhar, S., Utz, S. G., Mildenerger, W., Nassiri, S., Delorenzi, et al  
2021; 118 (10)
  - **New Therapeutic Landscape in Neuromyelitis Optica.** *Current treatment options in neurology*  
Tugizova, M. n., Vlahovic, L. n., Tomczak, A. n., Wetzel, N. S., Han, M. H.  
2021; 23 (4): 13
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- **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
- **In-depth B cell immunophenotyping to monitor response to anti-CD20 therapy in CNS autoimmunity.** *Multiple sclerosis and related disorders*  
Su, E., Wetzel, N. S., Oak, J., Kipp, L., Han, M. H.  
2020; 46: 102594
- **Examining the Link Between Autoimmune Disease and Thromboembolic Events: A Modified Delphi Panel Approach**  
Azimi, N., Caldera, F., Cohen, S., Conners, J., Fernandes, T., Han, M., Strand, V., Tapson, V., Weinberg, A. S., Weinberg, J., Yarur, A.  
LIPPINCOTT WILLIAMS & WILKINS.2020: S454
- **White-matter-nulled MPRAGE at 7T reveals thalamic lesions and atrophy of specific thalamic nuclei in multiple sclerosis** *MULTIPLE SCLEROSIS JOURNAL*  
Planche, V., Su, J. H., Mournet, S., Saranathan, M., Dousset, V., Han, M., Rutt, B. K., Tourdias, T.  
2020; 26 (8): 987–92
- **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
- **Changes in immune cell profile, clinical and safety outcomes in fingolimod-treated patients with relapsing multiple sclerosis in the FLUENT study**  
Mao-Draayer, Y., Cohen, J. A., Bar-Or, A., Han, M. H., Singer, B., Jaitly, N., Kolodny, S., Elam, C., Meng, X., Ziehn, M., Cree, B. C.  
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Case series: Hearing loss in neuromyelitis optica spectrum disorders.** *Multiple sclerosis and related disorders*  
Tugizova, M., Feng, H., Tomczak, A., Steenerson, K., Han, M.  
2020; 41: 102032
- **Emergence of rheumatoid arthritis following exposure to natalizumab.** *Multiple sclerosis and related disorders*  
Su Data, E. n., Novic, J. n., Han, M. H.  
2020; 40: 101936
- **Revealing architectural order with quantitative label-free imaging and deep learning.** *eLife*  
Guo, S. M., Yeh, L. H., Folkesson, J. n., Ivanov, I. E., Krishnan, A. P., Keefe, M. G., Hashemi, E. n., Shin, D. n., Chhun, B. B., Cho, N. H., Leonetti, M. D., Han, M. H., Nowakowski, et al  
2020; 9
- **The impact of COVID-19 on patients with neuromyelitis optica spectrum disorder; a pilot study.** *Multiple sclerosis and related disorders*  
Tomczak, A. n., Han, M. H.  
2020; 45: 102347
- **Collaborative International Research in Clinical and Longitudinal Experience Study in NMOsD.** *Neurology(R) neuroimmunology & neuroinflammation*  
Cook, L. J., Rose, J. W., Alvey, J. S., Jolley, A. M., Kuhn, R., Marron, B., Pederson, M., Enriquez, R., Yearley, J., McKechnie, S., Han, M. H., Tomczak, A. J., Levy, et al  
2019; 6 (5): e583
- **Immunological Aspects of Approved MS Therapeutics** *FRONTIERS IN IMMUNOLOGY*  
Rommer, P. S., Milo, R., Han, M. H., Satyanarayan, S., Sellner, J., Hauer, L., Illes, Z., Warnke, C., Laurent, S., Weber, M. S., Zhang, Y., Stuve, O.  
2019; 10
- **Changes in the immune cell profile in fingolimod-treated patients with relapsing multiple sclerosis: primary analysis of the FLUENT study**

Mao-Draayer, Y., Cohen, J., Bar-Or, A., Cree, B. C., Han, M., Singer, B., Kolodny, S., Meng, X., Schofield, L., Ziehn, M.  
LIPPINCOTT WILLIAMS & WILKINS.2019

- **Immune Cell Subset and Biomarker Changes in Patients with Relapsing Multiple Sclerosis Receiving Fingolimod: Interim Analysis of the FLUENT Study**  
Mao-Draayer, Y., Cohen, J. A., Bar-Or, A., Cree, B. C., Han, M. H., Singer, B. A., Kolodny, S., Meng, X., Schofield, L., Ziehn, M. O.  
SAGE PUBLICATIONS LTD.2019: 25
- **White-matter-nulled MPRAGE at 7T reveals thalamic lesions and atrophy of specific thalamic nuclei in multiple sclerosis.** *Multiple sclerosis (Houndmills, Basingstoke, England)*  
Planche, V., Su, J. H., Mournet, S., Saranathan, M., Dousset, V., Han, M., Rutt, B. K., Tourdias, T.  
2019: 1352458519828297
- **MR susceptibility contrast imaging using a 2D simultaneous multi-slice gradient-echo sequence at 7T.** *PLoS one*  
Bian, W., Kerr, A. B., Tranvinh, E., Parivash, S., Zahneisen, B., Han, M. H., Lock, C. B., Goubran, M., Zhu, K., Rutt, B. K., Zeineh, M. M.  
2019; 14 (7): e0219705
- **Collaborative International Research in Clinical and Longitudinal Experience Study in NMOSD.** *Neurology(R) neuroimmunology & neuroinflammation*  
Cook, L. J., Rose, J. W., Alvey, J. S., Jolley, A. M., Kuhn, R. n., Marron, B. n., Pederson, M. n., Enriquez, R. n., Yearley, J. n., McKechnie, S. n., Han, M. H., Tomczak, A. J., Levy, et al  
2019; 6 (5)
- **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
- **The FLUENT study design: investigating immune cell subset and neurofilament changes in patients with relapsing multiple sclerosis treated with fingolimod.** *Multiple sclerosis journal - experimental, translational and clinical*  
Cohen, J. A., Bar-Or, A., Cree, B. A., Mao-Draayer, Y., Han, M. H., Singer, B., Jannu, A., Kolodny, S., Meng, X., Winger, R. C.  
2019; 5 (1): 2055217318819245
- **Myeloid sphingosine-1-phosphate receptor 1 is important for CNS autoimmunity and neuroinflammation.** *Journal of autoimmunity*  
Tsai, H. C., Nguyen, K. n., Hashemi, E. n., Engleman, E. n., Hla, T. n., Han, M. H.  
2019
- **Molecular signature of Epstein-Barr virus infection in MS brain lesions.** *Neurology(R) neuroimmunology & neuroinflammation*  
Moreno, M. A., Or-Geva, N., Aftab, B. T., Khanna, R., Croze, E., Steinman, L., Han, M. H.  
2018; 5 (4): e466
- **Molecular signature of Epstein-Barr virus infection in MS brain lesions** *NEUROLOGY-NEUROIMMUNOLOGY & NEUROINFLAMMATION*  
Moreno, M. A., Or-Geva, N., Aftab, B. T., Khanna, R., Croze, E., Steinman, L., Han, M. H.  
2018; 5 (4)
- **Investigating Immune Phenotype Biomarker Changes in Patients with Relapsing MS Treated with Fingolimod 0.5 mg/day: The FLUENT Study**  
Cohen, J., Bar-Or, A., Cree, B., Mao-Draayer, Y., Han, M., Singer, B., Jannu, A., Kolodny, S., Meng, X., Winger, R.  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Investigating Immune Phenotype Biomarker Changes in Patients with Relapsing MS Treated with Fingolimod 0.5 Mg/Day: The Fluent Study**  
Cohen, J. A., Bar-Or, A., Cree, B. C., Mao-Draayer, Y., Han, M. H., Singer, B. A., Jannu, A., Kolodny, S., Meng, X., Winger, R.  
SAGE PUBLICATIONS LTD.2018: 14
- **Fibrinogen Activates BMP Signaling in Oligodendrocyte Progenitor Cells and Inhibits Remyelination after Vascular Damage** *NEURON*  
Petersen, M. A., Ryu, J., Chang, K., Etxeberria, A., Bardehle, S., Mendiola, A. S., Kamau-Devers, W., Fancy, S. J., Thor, A., Bushong, E. A., Baeza-Raja, B., Syme, C. A., Wu, et al  
2017; 96 (5): 1003+
- **A 3-Dimensional Hydrogel Model of Multiple Sclerosis Brain Lesions Reveals Insights into Re-Myelination** *JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING*  
Baisiwala, S., Moreno, M. A., Wang, C., Rogan, H. W., Tsai, H., Yang, F., Han, M. H.  
2017; 7 (9): 868-75

- **Phosphorylation of aB-crystallin supports reactive astrogliosis in demyelination.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kuipers, H. F., Yoon, J., van Horssen, J., Han, M. H., Bollyky, P. L., Palmer, T. D., Steinman, L.  
2017; 114 (9): E1745-E1754
- **Integrative proteomics, genomics, and translational immunology approaches reveal mutated forms of Proteolipid Protein 1 (PLP1) and mutant-specific immune response in multiple sclerosis.** *Proteomics*  
Qendro, V., Bugos, G. A., Lundgren, D. H., Glynn, J., Han, M. H., Han, D. K.  
2017
- **Imaging B cells in a mouse model of multiple sclerosis using (64)Cu-Rituximab-PET.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
James, M. L., Hoehne, A. n., Mayer, A. T., Lechtenberg, K. n., Moreno, M. n., Gowrishankar, G. n., Ilovich, O. n., Natarajan, A. n., Johnson, E. M., Nguyen, J. n., Quach, L. n., Han, M. n., Buckwalter, et al  
2017
- **Exosomal proteome analysis of cerebrospinal fluid detects biosignatures of neuromyelitis optica and multiple sclerosis.** *Clinica chimica acta; international journal of clinical chemistry*  
Lee, J., McKinney, K. Q., Pavlopoulos, A. J., Han, M. H., Kim, S., Kim, H. J., Hwang, S.  
2016; 462: 118-126
- **In Vivo 7T MR Quantitative Susceptibility Mapping Reveals Opposite Susceptibility Contrast between Cortical and White Matter Lesions in Multiple Sclerosis** *AMERICAN JOURNAL OF NEURORADIOLOGY*  
Bian, W., Tranvinh, E., Tourdias, T., Han, M., Liu, T., Wang, Y., Rutt, B., Zeineh, M. M.  
2016; 37 (10): 1808-1815
- **Sphingosine-1-Phosphate (S1P) and S1P Signaling Pathway: Therapeutic Targets in Autoimmunity and Inflammation** *DRUGS*  
Tsai, H., Han, M. H.  
2016; 76 (11): 1067-1079
- **Intravenous Transplantation of Mesenchymal Progenitors Distribute Solely to the Lungs and Improve Outcomes in Cervical Spinal Cord Injury** *STEM CELLS*  
White, S. V., Czisch, C. E., Han, M. H., Plant, C. D., Harvey, A. R., Plant, G. W.  
2016; 34 (7): 1812-1825
- **Effects of sphingosine-1-phosphate receptor 1 phosphorylation in response to FTY720 during neuroinflammation.** *JCI insight*  
Tsai, H., Huang, Y., Garris, C. S., Moreno, M. A., Griffin, C. W., Han, M. H.  
2016; 1 (9)
- **Effects of sphingosine-1-phosphate receptor 1 phosphorylation in response to FTY720 during neuroinflammation** *JCI Insight*  
Tsai, H.  
2016; 1 (9): e86462
- **Acute and Chronic Management of Neuromyelitis Optica Spectrum Disorder** *CURRENT TREATMENT OPTIONS IN NEUROLOGY*  
Sherman, E., Han, M. H.  
2015; 17 (11)
- **Update on biomarkers in neuromyelitis optica.** *Neurology® neuroimmunology & neuroinflammation*  
Melamed, E., Levy, M., Waters, P. J., Sato, D. K., Bennett, J. L., John, G. R., Hooper, D. C., Saiz, A., Bar-Or, A., Kim, H. J., Pandit, L., Leite, M. I., Asgari, et al  
2015; 2 (4)
- **HDL-bound sphingosine-1-phosphate restrains lymphopoiesis and neuroinflammation.** *Nature*  
Blaho, V. A., Galvani, S., Engelbrecht, E., Liu, C., Swendeman, S. L., Kono, M., Proia, R. L., Steinman, L., Han, M. H., Hla, T.  
2015; 523 (7560): 342-346
- **Use of Advanced Magnetic Resonance Imaging Techniques in Neuromyelitis Optica Spectrum Disorder** *JAMA NEUROLOGY*  
Kremer, S., Renard, F., Achard, S., Lana-Peixoto, M. A., Palace, J., Asgari, N., Klawiter, E. C., Tenenbaum, S. N., Banwell, B., Greenberg, B. M., Bennett, J. L., Levy, M., Villoslada, et al  
2015; 72 (7): 815-22
- **Neuromyelitis optica and multiple sclerosis: Seeing differences through optical coherence tomography** *MULTIPLE SCLEROSIS JOURNAL*

- Bennett, J. L., de Seze, J., Lana-Peixoto, M., Palace, J., Waldman, A., Schippling, S., Tenenbaum, S., Banwell, B., Greenberg, B., Levy, M., Fujihara, K., Chan, K. H., Kim, et al  
2015; 21 (6): 678-88
- **Patient experience and practice trends in multiple sclerosis - clinical utility of fingolimod** *PATIENT PREFERENCE AND ADHERENCE*  
Lee, J., Han, M. H.  
2015; 9
  - **Differential phosphorylation of alpha B-crystallin in astrocytes and oligodendrocytes suggests a diversity in its biological function**  
Kuipers, H. F., Yoon, J., Winderl, J., Van Horssen, J., Han, M. H., Palmer, T. D., Steinman, L.  
ELSEVIER SCIENCE BV.2014: 157-58
  - **Genome-wide RNA expression profiling in human grey and white matter tissue reveals a role for PSA-NCAM dysregulation in MS pathogenesis**  
Bruinsma, I., Eijssink, V., Kooi, E., Baranzini, S., Ji, X., Axtell, R., Han, M., Kuipers, H., Sobel, R., Polman, C., Geurts, J., Martens, G., Poelmans, et al  
ELSEVIER SCIENCE BV.2014: 180-81
  - **Sphingosine-1-phosphate receptor 1 signalling in T cells: trafficking and beyond** *IMMUNOLOGY*  
Garris, C. S., Blaho, V. A., Hla, T., Han, M. H.  
2014; 142 (3): 347-353
  - **Sphingosine-1-Phosphate Receptor Phosphorylation and its Effects on Autoimmune Neuroinflammation**  
Garris, C. S., Wu, L., Sobel, R. A., Snyder, M., Hla, T. T., Dorfman, L. J., Han, M. H.  
SAGE PUBLICATIONS LTD.2014: 958
  - **Optimization of magnetization-prepared 3-dimensional fluid attenuated inversion recovery imaging for lesion detection at 7 T.** *Investigative radiology*  
Saranathan, M., Tourdias, T., Kerr, A. B., Bernstein, J. D., Kerchner, G. A., Han, M. H., Rutt, B. K.  
2014; 49 (5): 290-298
  - **Defective sphingosine 1-phosphate receptor 1 (S1P1) phosphorylation exacerbates TH17-mediated autoimmune neuroinflammation.** *Nature immunology*  
Garris, C. S., Wu, L., Acharya, S., Arac, A., Blaho, V. A., Huang, Y., Moon, B. S., Axtell, R. C., Ho, P. P., Steinberg, G. K., Lewis, D. B., Sobel, R. A., Han, et al  
2013; 14 (11): 1166-1172
  - **Piet Mondrian's trees and the evolution in understanding multiple sclerosis, Charcot Prize Lecture 2011** *MULTIPLE SCLEROSIS JOURNAL*  
Steinman, L., Axtell, R. C., Barbieri, D., Bhat, R., Brownell, S. E., de Jong, B. A., Dunn, S. E., Grant, J. L., Han, M. H., Ho, P. P., Kuipers, H. F., Kurnellas, M. P., Ousman, et al  
2013; 19 (1): 5-14
  - **Janus-like opposing roles of CD47 in autoimmune brain inflammation in humans and mice** *JOURNAL OF EXPERIMENTAL MEDICINE*  
Han, M. H., Lundgren, D. H., Jaiswal, S., Chao, M., Graham, K. L., Garris, C. S., Axtell, R. C., Ho, P. P., Lock, C. B., Woodard, J. I., Brownell, S. E., Zoudilova, M., Hunt, et al  
2012; 209 (7): 1325-1334
  - **Identification of Naturally Occurring Fatty Acids of the Myelin Sheath That Resolve Neuroinflammation** *SCIENCE TRANSLATIONAL MEDICINE*  
Ho, P. P., Kanter, J. L., Johnson, A. M., Srinagesh, H. K., Chang, E., Purdy, T. M., Van Haren, K., Wikoff, W. R., Kind, T., Khademi, M., Matloff, L. Y., Narayana, S., Hur, et al  
2012; 4 (137)
  - **Protective effect of an elastase inhibitor in a neuromyelitis optica-like disease driven by a peptide of myelin oligodendroglial glycoprotein** *MULTIPLE SCLEROSIS JOURNAL*  
Heges, K., de Jong, B. A., Kolkowitz, I., Dunn, C., Mandelbaum, G., Ko, R. M., Maini, A., Han, M. H., Killestein, J., Polman, C., Goodyear, A. L., Dunn, J., Steinman, et al  
2012; 18 (4): 398-408
  - **Impaired neurosteroid synthesis in multiple sclerosis** *BRAIN*  
Noorbakhsh, F., Ellestad, K. K., Maingat, F., Warren, K. G., Han, M. H., Steinman, L., Baker, G. B., Power, C.  
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