



## Lawrence Steinman, MD

George A. Zimmermann Professor and Professor of Pediatrics  
Neurology and Neurological Sciences

 NIH Biosketch available Online

 Curriculum Vitae available Online

 Resume available Online

### CLINICAL OFFICE (PRIMARY)

- **Beckman Center**

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### Bio

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#### BIO

My research is in neuroimmunology. I attend on the inpatient service at LPCH.

#### CLINICAL FOCUS

- Neurology
- Neurology, Pediatric
- Multiple Sclerosis, Myasthenia Gravis, Immune Disorders

#### ACADEMIC APPOINTMENTS

- Professor, Neurology and Neurological Sciences
- Professor, Pediatrics
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

#### ADMINISTRATIVE APPOINTMENTS

- Chairman, Interdepartmental Program in Immunology, Interdepartmental Program in Immunology, Stanford University, (2002-2011)

#### HONORS AND AWARDS

- Member, National Academy of Medicine, formerly named Institute of Medicine (October, 2009-onward)
- Doctorate Honoris Causa, University of Buenos Aires (October 24, 2022)
- Member, National Academy of Sciences (2015-onward)
- Anthony Cerami Award in Translational Medicine, Feinstein Institute and Molecular Medicine (2015)
- Charcot Award for Lifetime Achievement in MS Research, Internation Federation of MS Societies (2011)
- Honorary PhD, Hasselt University (2008)

- John M. Dystel Prize, American Academy of Neurology and National MS Society (2004)
- Friedrich Sasse Prize, Free Univ.of Berlin (1994)
- Sen. Jacob Javits Award, US Congress (1988-2002)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chairman, Research Advisory Committee on Gulf War Illness, Veteran's Administration (2018 - 2022)
- Member Advisory Committee, Institute of Medicine, on "Multiple Sclerosis & Other Neurologic Disorders in Veterans of the Persian Gulf & Post-9/11 Wars", Institute of Medicine, National Academy of Sciences (2015 - present)

## PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Neurology (1980) CA
- Residency: Stanford University School of Medicine (1976) CA
- Internship: Stanford University Dept of Medicine (1974) CA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (1984)
- Fellowship: Weizmann Institute Of Science (1977) Israel
- Medical Education: Harvard Medical School (1973) MA
- MD, Harvard University , Neurochemistry (1973)

## LINKS

- My Lab Site: <http://steinmanlab.stanford.edu/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our laboratory is dedicated to understanding the pathogenesis of autoimmune diseases, particularly multiple sclerosis. We have developed several new therapies for autoimmunity, including some in Phase 2 clinical trials, as well as one approved drug, natalizumab. We have developed microarray technology for detecting autoantibodies to myelin proteins and lipids. We employ a diverse range of molecular and cellular approaches to trying to understand multiple sclerosis.

### CLINICAL TRIALS

- Biobank For MS And Other Demyelinating Diseases, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

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### PUBLICATIONS

- **Peripheral complement C4 protein in schizophrenia: Association with gene copy number and immune cell subtypes.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kalinowski, A., Macaubas, C., Guo, H., Anker, L. A., Wakeham, D. E., Ho, M., Pattni, R., Bayram, B., Sharma, S., Liliental, J., Yoon, J. H., Mellins, E. D., Steinman, et al  
2026; 123 (20): e2536376123

- **Why Is MS a More Frequent Complication of EBV Infection in Females?** *Immunological reviews*  
Dunn, S. E., Alvarez-Sanchez, N., Steinman, L.  
2026; 339 (1): e70115
- **Cytotoxic T cell recognition of  $\alpha$ -synuclein drives pathogenic immune responses in multiple system atrophy.** *Proceedings of the National Academy of Sciences of the United States of America*  
Moon, J. S., Moutusy, S. I., Zhang, M., Ndayisaba, A., Rodriguez, D., El Koadi, D. N., Kuzkina, A., Younis, S., Jahanbani, S., Dam, L. S., Courtney, Y., Netanel, A., Sharpe, et al  
2026; 123 (14): e2537271123
- **Multiple molecular mimics in Epstein Barr Nuclear Antigen-1, and the pathogenesis of multiple sclerosis.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lum, F. M., Sattarnezhad, N., Ho, P. P., Orr, N., Robinson, W. H., Lanz, T. V., Steinman, L.  
2026; 123 (11): e2519445123
- **Discoveries beyond molecular mimicry describe how EBV drives multiple sclerosis.** *Cell*  
Steinman, L., Zamvil, S. S.  
2026; 189 (2): 345-347
- **Targeting EBV is a viable therapeutic strategy in MS: YES.** *Multiple sclerosis (Houndmills, Basingstoke, England)*  
Steinman, L.  
2026: 13524585251409964
- **The complexity of interpreting TSPO PET neuroimaging in first-episode psychosis.** *Brain : a journal of neurology*  
Kalinowski, A., Steinman, L.  
2026
- **Epstein-Barr virus reprograms autoreactive B cells as antigen-presenting cells in systemic lupus erythematosus.** *Science translational medicine*  
Younis, S., Moutusy, S. I., Rasouli, S., Jahanbani, S., Pandit, M., Wu, X., Acharya, S., Sharpe, O., Wijeratne, T. U., Harris, M. L., Yang, E. Y., Chaichian, Y., Parsafar, et al  
2025; 17 (824): eady0210
- **Antibody reactivity against EBNA1 and GlialCAM differentiates multiple sclerosis patients from healthy controls.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sattarnezhad, N., Kockum, I., Thomas, O. G., Liu, Y., Ho, P. P., Barrett, A. K., Comanescu, A. I., Wijeratne, T. U., Utz, P. J., Alfredsson, L., Steinman, L., Robinson, W. H., Olsson, et al  
2025; 122 (11): e2424986122
- **Epstein-Barr virus and the immune microenvironment in multiple sclerosis: Insights from high-dimensional brain tissue imaging.** *Proceedings of the National Academy of Sciences of the United States of America*  
Orr, N., Steinman, L.  
2025; 122 (11): e2425670122
- **Multiple Sclerosis: A Virus-Induced Gliopathy?** *Neurology(R) neuroimmunology & neuroinflammation*  
Sabatino, J. J., Steinman, L.  
2025; 12 (2): e200383
- **Epstein-Barr virus as a potentiator of autoimmune diseases.** *Nature reviews. Rheumatology*  
Robinson, W. H., Younis, S., Love, Z. Z., Steinman, L., Lanz, T. V.  
2024
- **Association of Levels of CSF Osteopontin With Cortical Atrophy and Disability in Early Multiple Sclerosis.** *Neurology(R) neuroimmunology & neuroinflammation*  
Marastoni, D., Turano, E., Tamanti, A., Colato, E., Pisani, A. I., Scartezzini, A., Carotenuto, S., Mazziotti, V., Camera, V., Anni, D., Ziccardi, S., Guandalini, M., Pizzini, et al  
2024; 11 (5): e200265
- **MOG CNS Autoimmunity and MOGAD.** *Neurology(R) neuroimmunology & neuroinflammation*  
Moseley, C. E., Virupakshaiah, A., Forsthuber, T. G., Steinman, L., Waubant, E., Zamvil, S. S.  
2024; 11 (5): e200275

- **Hunger guides immunity to friend versus foe.** *Nature neuroscience*  
Or-Geva, N., Steinman, L.  
2024
- **Elevated  $\alpha 5$  integrin expression on myeloid cells in motor areas in amyotrophic lateral sclerosis is a therapeutic target.** *Proceedings of the National Academy of Sciences of the United States of America*  
Chiot, A., Roemer, S. F., Ryner, L., Bogachuk, A., Emberley, K., Brownell, D., Jimenez, G. A., Leviten, M., Woltjer, R., Dickson, D. W., Steinman, L., Ajami, B.  
2023; 120 (32): e2306731120
- **T cell deletional tolerance restricts AQP4 but not MOG CNS autoimmunity.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sagan, S. A., Moinfar, Z., Moseley, C. E., Dandekar, R., Spencer, C. M., Verkman, A. S., Ottersen, O. P., Sobel, R. A., Sidney, J., Sette, A., Anderson, M. S., Steinman, L., Wilson, et al  
2023; 120 (30): e2306572120
- **An intrinsically disordered protein, osteopontin, driving neuropathology in Alzheimer's dementia.** *Proceedings of the National Academy of Sciences of the United States of America*  
Steinman, L.  
2023; 120 (6): e2221816120
- **Experimental encephalomyelitis at age 90, still relevant and elucidating how viruses trigger disease.** *The Journal of experimental medicine*  
Steinman, L., Patarca, R., Haseltine, W.  
2023; 220 (2)
- **Roadmap for understanding mechanisms on how Epstein-Barr virus triggers multiple sclerosis and for translating these discoveries in clinical trials.** *Clinical & translational immunology*  
Lanz, T. V., Robinson, W. H., Ho, P. P., Steinman, L.  
2023; 12 (2): e1438
- **Larry Steinman** *NEURON*  
Steinman, L.  
2022; 110 (21): 3412-3414
- **NAD<sup>+</sup> metabolism drives astrocyte proinflammatory reprogramming in central nervous system autoimmunity.** *Proceedings of the National Academy of Sciences of the United States of America*  
Meyer, T., Shimon, D., Youssef, S., Yankovitz, G., Tessler, A., Chernobylsky, T., Gaoni-Yogev, A., Perelroizen, R., Budick-Harmelin, N., Steinman, L., Mayo, L.  
2022; 119 (35): e2211310119
- **Ublituximab versus Teriflunomide in Relapsing Multiple Sclerosis.** *The New England journal of medicine*  
Steinman, L., Fox, E., Hartung, H. P., Alvarez, E., Qian, P., Wray, S., Robertson, D., Huang, D., Selmaj, K., Wynn, D., Cutter, G., Mok, K., Hsu, et al  
2022; 387 (8): 704-714
- **Risk of severe COVID-19 infection among adults with prior exposure to children.** *Proceedings of the National Academy of Sciences of the United States of America*  
Solomon, M. D., Escobar, G. J., Lu, Y., Schlessinger, D., Steinman, J. B., Steinman, L., Lee, C., Liu, V. X.  
2022; 119 (33): e2204141119
- **Michael Sela: Scientist, statesman, sage (1924-2022).** *Proceedings of the National Academy of Sciences of the United States of America*  
Steinman, L.  
2022; 119 (34): e2211991119
- **Mobilization of innate and adaptive antitumor immune responses by the RNP-targeting antibody ATRC-101.** *Proceedings of the National Academy of Sciences of the United States of America*  
Scholz, A., DeFalco, J., Leung, Y., Aydin, I. T., Czupalla, C. J., Cao, W., Santos, D., Vad, N., Lippow, S. M., Baia, G., Harbell, M., Sapugay, J., Zhang, et al  
2022; 119 (19): e2123483119
- **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
- **Epstein-Barr virus and multiple sclerosis.** *Science (New York, N.Y.)*  
Robinson, W. H., Steinman, L.  
2022; 375 (6578): 264-265
  - **Capturing pathogenic immune cells before they home to brain.** *Med (New York, N.Y.)*  
Steinman, L.  
2021; 2 (3): 214–16
  - **Generating tumor-selective conditionally active biologic anti-CTLA4 antibodies via protein-associated chemical switches.** *Proceedings of the National Academy of Sciences of the United States of America*  
Chang, H. W., Frey, G., Liu, H., Xing, C., Steinman, L., Boyle, W. J., Short, J. M.  
2021; 118 (9)
  - **Biological Significance of Anti-SARS-CoV-2 Antibodies: Lessons Learned From Progressive Multifocal Leukoencephalopathy.** *Neurology(R) neuroimmunology & neuroinflammation*  
Manouchehri, N., Steinman, L., Stuve, O.  
2021; 8 (2)
  - **Improvement of Comorbid Psoriasis in Patients With MS Treated With Natalizumab.** *Neurology(R) neuroimmunology & neuroinflammation*  
Berkovich, R., Yakupova, A., Eskenazi, J., Carlson, N. G., Steinman, L.  
2021; 8 (2)
  - **Autoantibodies against central nervous system antigens in a subset of B cell-dominant multiple sclerosis patients.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kuerten, S. n., Lanz, T. V., Lingampalli, N. n., Lahey, L. J., Kleinschnitz, C. n., Mäurer, M. n., Schroeter, M. n., Braune, S. n., Ziemssen, T. n., Ho, P. P., Robinson, W. H., Steinman, L. n.  
2020
  - **Reduced development of COVID-19 in children reveals molecular checkpoints gating pathogenesis illuminating potential therapeutics.** *Proceedings of the National Academy of Sciences of the United States of America*  
Steinman, J. B., Lum, F. M., Ho, P. P., Kaminski, N. n., Steinman, L. n.  
2020
  - **A sugar-coated strategy to treat a rare neurologic disease provides a blueprint for a decoy glycan therapeutic and a potential vaccine for CoViD-19: An Editorial Highlight for "Selective inhibition of anti-MAG IgM autoantibody binding to myelin by an antigen specific glycopolymer" on <https://doi.org/10.1111/jnc.15021>.** *Journal of neurochemistry*  
Steinman, L. n.  
2020
  - **Epstein-Barr Virus in Multiple Sclerosis: Theory and Emerging Immunotherapies.** *Trends in molecular medicine*  
Bar-Or, A., Pender, M. P., Khanna, R., Steinman, L., Hartung, H., Maniar, T., Croze, E., Aftab, B. T., Giovannoni, G., Joshi, M. J.  
2019
  - **Antigen-specific tolerance to self-antigens in protein replacement therapy, gene therapy and autoimmunity.** *Current opinion in immunology*  
Steinman, L., Ho, P. P., Robinson, W. H., Utz, P. J., Villoslada, P.  
2019; 61: 46–53
  - **Small Heat Shock Proteins, Amyloid Fibrils, and Nicotine Stimulate a Common Immune Suppressive Pathway with Implications for Future Therapies** *COLD SPRING HARBOR PERSPECTIVES IN MEDICINE*  
Rothbard, J. B., Kurnellas, M. P., Ousman, S. S., Brownell, S., Rothbard, J. J., Steinman, L.  
2019; 9 (7)
  - **Immune tolerance in patients with Multiple Sclerosis and Neuromyelitis Optica by peptide-loaded tolerogenic dendritic cells: final results of the phase 1b clinical trial and extension**  
Zubizarreta, I., Florez-Grau, G., Vila, G., Cabezon, R., Espana, C., Andorra, M., Saiz, A., Llufrui, S., Sepulveda, M., Sola, N., Martinez-Lapiscina, E., Pulido Valdeolivas, I., Casanova, et al  
LIPPINCOTT WILLIAMS & WILKINS.2019

- **Immune tolerance in multiple sclerosis and neuromyelitis optica with peptide-loaded tolerogenic dendritic cells in a phase 1b trial.** *Proceedings of the National Academy of Sciences of the United States of America*  
Zubizarreta, I., Florez-Grau, G., Vila, G., Cabezon, R., Espana, C., Andorra, M., Saiz, A., Llufrui, S., Sepulveda, M., Sola-Valls, N., Martinez-Lapiscina, E. H., Pulido-Valdeolivas, I., Casanova, et al  
2019
- **Small Heat Shock Proteins, Amyloid Fibrils, and Nicotine Stimulate a Common Immune Suppressive Pathway with Implications for Future Therapies.** *Cold Spring Harbor perspectives in medicine*  
Rothbard, J. B., Kurnellas, M. P., Ousman, S. S., Brownell, S., Rothbard, J. J., Steinman, L.  
2018
- **Engineered DNA plasmid reduces immunity to dystrophin while improving muscle force in a model of gene therapy of Duchenne dystrophy.** *Proceedings of the National Academy of Sciences of the United States of America*  
Ho, P. P., Lahey, L. J., Mourkioti, F., Kraft, P. E., Filareto, A., Brandt, M., Magnusson, K. E., Finn, E. E., Chamberlain, J. S., Robinson, W. H., Blau, H. M., Steinman, L.  
2018
- **An amyloidogenic hexapeptide derived from amylin attenuates inflammation and acute lung injury in murine sepsis** *PLOS ONE*  
Mahapatra, S., Ying, L., Ho, P., Kurnellas, M., Rothbard, J., Steinman, L., Cornfield, D. N.  
2018; 13 (7): e0199206
- **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
- **Identification of a common immune regulatory pathway induced by small heat shock proteins, amyloid fibrils, and nicotine.** *Proceedings of the National Academy of Sciences of the United States of America*  
Rothbard, J. B., Rothbard, J. J., Soares, L., Fathman, C. G., Steinman, L.  
2018
- **Blocking immune intrusion into the brain suppresses epilepsy in Rasmussen's encephalitis model** *JOURNAL OF CLINICAL INVESTIGATION*  
Steinman, L.  
2018; 128 (5): 1724–26
- **Single-cell mass cytometry reveals distinct populations of brain myeloid cells in mouse neuroinflammation and neurodegeneration models.** *Nature neuroscience*  
Ajami, B., Samusik, N., Wieghofer, P., Ho, P. P., Crotti, A., Bjornson, Z., Prinz, M., Fantl, W. J., Nolan, G. P., Steinman, L.  
2018; 21 (4): 541–51
- **Narcolepsy and influenza vaccination-induced autoimmunity** *ANNALS OF TRANSLATIONAL MEDICINE*  
Ahmed, S., Steinman, L.  
2017; 5 (1): 25
- **A Journey in Science: The Privilege of Exploring the Brain and the Immune System.** *Molecular medicine*  
Steinman, L.  
2016; 22
- **Taming Autoimmunity** *SCIENTIST*  
Steinman, L.  
2016; 30 (6): 32–37
- **Obeticholic acid, a synthetic bile acid agonist of the farnesoid X receptor, attenuates experimental autoimmune encephalomyelitis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Ho, P. P., Steinman, L.  
2016; 113 (6): 1600-1605
- **Amyloid fibrils activate B-1a lymphocytes to ameliorate inflammatory brain disease** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Kurnellas, M. P., Ghosn, E. E., Schartner, J. M., Baker, J., Rothbard, J. J., Negrin, R. S., Herzenberg, L. A., Fathman, C. G., Steinman, L., Rothbard, J. B.

2015; 112 (49): 15016-15023

- **Antibodies to influenza nucleoprotein cross-react with human hypocretin receptor 2** *SCIENCE TRANSLATIONAL MEDICINE*  
Ahmed, S. S., Volkmoth, W., Duca, J., Corti, L., Pallaoro, M., Pezzicoli, A., Karle, A., Rigat, F., Rappuoli, R., Narasimhan, V., Julkunen, I., Vuorela, A., Vaarala, et al  
2015; 7 (294)
- **No quiet surrender: molecular guardians in multiple sclerosis brain** *JOURNAL OF CLINICAL INVESTIGATION*  
Steinman, L.  
2015; 125 (4): 1371-1378
- **Mechanisms of action of therapeutic amyloidogenic hexapeptides in amelioration of inflammatory brain disease.** *journal of experimental medicine*  
Kurnellas, M. P., Schartner, J. M., Fathman, C. G., Jagger, A., Steinman, L., Rothbard, J. B.  
2014; 211 (9): 1847-1856
- **Immunology of Relapse and Remission in Multiple Sclerosis** *ANNUAL REVIEW OF IMMUNOLOGY, VOL 32*  
Steinman, L.  
2014; 32: 257-281
- **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
- **Plasmid-Encoded Proinsulin Preserves C-Peptide While Specifically Reducing Proinsulin-Specific CD8+ T Cells in Type 1 Diabetes.** *Science translational medicine*  
Roep, B. O., Solvason, N., Gottlieb, P. A., Abreu, J. R., Harrison, L. C., Eisenbarth, G. S., Yu, L., Leviten, M., Hagopian, W. A., Buse, J. B., von Herrath, M., Quan, J., King, et al  
2013; 5 (191): 191ra82-?
- **Expansion of oligodendrocyte progenitor cells following SIRT1 inactivation in the adult brain.** *Nature cell biology*  
Rafalski, V. A., Ho, P. P., Brett, J. O., Ucar, D., Dugas, J. C., Pollina, E. A., Chow, L. M., Ibrahim, A., Baker, S. J., Barres, B. A., Steinman, L., Brunet, A.  
2013; 15 (6): 614-624
- **Amyloid Fibrils Composed of Hexameric Peptides Attenuate Neuroinflammation** *SCIENCE TRANSLATIONAL MEDICINE*  
Kurnellas, M. P., Adams, C. M., Sobel, R. A., Steinman, L., Rothbard, J. B.  
2013; 5 (179)
- **A writing-intensive course improves biology undergraduates' perception and confidence of their abilities to read scientific literature and communicate science** *ADVANCES IN PHYSIOLOGY EDUCATION*  
Brownell, S. E., Price, J. V., Steinman, L.  
2013; 37 (1): 70-79
- **Weighing in on autoimmune disease: 'Hub-and-spoke' T cell traffic in autoimmunity.** *Nature medicine*  
Steinman, L.  
2013; 19 (2): 139-141
- **Inflammatory Cytokines at the Summits of Pathological Signal Cascades in Brain Diseases** *SCIENCE SIGNALING*  
Steinman, L.  
2013; 6 (258)
- **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
- **Science Communication to the General Public: Why We Need to Teach Undergraduate and Graduate Students this Skill as Part of Their Formal Scientific Training.** *Journal of undergraduate neuroscience education : JUNE : a publication of FUN, Faculty for Undergraduate Neuroscience*

- Brownell, S. E., Price, J. V., Steinman, L.  
2013; 12 (1): E6-E10
- **The discovery of natalizumab, a potent therapeutic for multiple sclerosis** *JOURNAL OF CELL BIOLOGY*  
Steinman, L.  
2012; 199 (3): 413-416
  - **Chaperone Activity of Small Heat Shock Proteins Underlies Therapeutic Efficacy in Experimental Autoimmune Encephalomyelitis** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Kurnellas, M. P., Brownell, S. E., Su, L., Malkovskiy, A. V., Rajadas, J., Dolganov, G., Chopra, S., Schoolnik, G. K., Sobel, R. A., Webster, J., Ousman, S. S., Becker, R. A., Steinman, et al  
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  - **Reversal of Paralysis and Reduced Inflammation from Peripheral Administration of beta-Amyloid in T(H)1 and T(H)17 Versions of Experimental Autoimmune Encephalomyelitis** *SCIENCE TRANSLATIONAL MEDICINE*  
Grant, J. L., Ghosn, E. E., Axtell, R. C., Herges, K., Kuipers, H. F., Woodling, N. S., Andreasson, K., Herzenberg, L. A., Herzenberg, L. A., Steinman, L.  
2012; 4 (145)
  - **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
  - **Peroxisome proliferator-activated receptor (PPAR) $\alpha$  and  $\gamma$  regulate IFN $\gamma$  and IL-17A production by human T cells in a sex-specific way.** *Proceedings of the National Academy of Sciences of the United States of America*  
Zhang, M. A., Rego, D., Moshkova, M., Kebir, H., Chruscinski, A., Nguyen, H., Akkermann, R., Stanczyk, F. Z., Prat, A., Steinman, L., Dunn, S. E.  
2012; 109 (24): 9505-9510
  - **Peroxisome proliferator-activated receptor (PPAR) $\alpha$  and  $\gamma$  regulate IFN $\gamma$  and IL-17A production by human T cells in a sex-specific way** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Zhang, M. A., Rego, D., Moshkova, M., Kebir, H., Chruscinski, A., HoangKim Nguyen, H., Akkermann, R., Stanczyk, F. Z., Prat, A., Steinman, L., Dunn, S. E.  
2012; 109 (24): 9505-9510
  - **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*  
Herges, 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
  - **Therapeutic Effects of Systemic Administration of Chaperone  $\alpha$ B-Crystallin Associated with Binding Proinflammatory Plasma Proteins** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Rothbard, J. B., Kurnellas, M. P., Brownell, S., Adams, C. M., Su, L., Axtell, R. C., Chen, R., Fathman, C. G., Robinson, W. H., Steinman, L.  
2012; 287 (13): 9708-9721
  - **Optimization of current and future therapy for autoimmune diseases** *NATURE MEDICINE*  
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