Stanford



Michael Greicius, MD, MPH

Iqbal Farrukh and Asad Jamal Professor and Professor, by courtesy, of Psychiatry and Behavioral Sciences (Administrative and Academic Special Programs)

Adult Neurology

Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Stanford Neuroscience Health Center**

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  Palo Alto, CA 94304

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Bio

CLINICAL FOCUS

- Neurology
- Alzheimer's disease
- Genetics
- Neurodegenerative diseases
- Lewy Body disease
- Frontotemporal Dementia

ACADEMIC APPOINTMENTS

- Professor, Adult Neurology
- Member, Neurology & Neurological Sciences
- Professor (By courtesy), Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- McKnight Foundation Memory and Cognitive Disorders Award, McKnight Foundation (2015-2018)
- Listed on Thomson Reuters “The World’s Most Influential Scientific Minds”, Thomson Reuters (2014-2016)
- ISMRM Outstanding Teacher Award in an Annual Meeting Educational Course, International Society for Magnetic Resonance Imaging in Medicine (2011)
- Stanford Neurology Clerkship Teaching Award, Stanford University School of Medicine (2009, 2012)
- New Perspectives in fMRI Research Award, Journal of Cognitive Neuroscience (2004)

- Alpha Omega Alpha Medical Honor Society, Columbia University College of Physicians and Surgeons (1996)

PROFESSIONAL EDUCATION

- Internship: New York Presbyterian Cornell Campus Internal Medicine Residency (1997) NY
- Fellowship: Stanford University Behavioral Neurology Fellowship (2001) CA
- Residency: Brigham and Women's and Mass General Hospital Neurology Residency (2000) MA
- Medical Education: Columbia University College of Physicians and Surgeons (1996) NY
- Residency: Brigham and Women's Hospital Harvard Medical School (2000) MA
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2003)

LINKS

- Stanford's Alzheimer's Disease Research Center: http://med.stanford.edu/adrc.html
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

As the Founding Director of the Stanford Center for Memory Disorders and Principal Investigator of a lab focused on the genetics of Alzheimer's disease (AD), Dr. Greicius' research focuses on elucidating the neurobiologic underpinnings of AD. His lab combines cutting edge brain imaging, "deep" phenotyping, and whole-genome sequencing of human subjects to identify novel pathways involved in AD pathogenesis. The goal of his work is to develop effective treatment for AD patients.

PROJECTS

- The Stanford Extreme Phenotypes in Alzheimer's Disease (StEP AD) Cohort - Stanford University

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Ania Howley

Postdoctoral Faculty Sponsor

Amelia Farinas, Tanner Jensen, Jun Young Park, Jing Zhai

Publications

PUBLICATIONS

- **Genetic Modifiers of ABCA1 Activity Interact with APOE Isoforms to Mediate Alzheimer's Disease Risk.** *Annals of neurology*
  Peña-Tauber, A., Hernández Arriaza, R., Reil, D., Muntaner, M., Park, J., Grenier-Boley, B., Hulsman, M., Amouyel, P., Bellenguez, C., Charbonnier, C., Deleuze, J. F., Dols-Icardo, O., Hardy, et al
  2026
- **Proteomic signatures of protected APOE ε4 carriers reveal causal pathways associated with delayed Alzheimer's disease onset.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Le Guen, Y., Park, J., Peña-Tauber, A., Greicius, M. D.
  2026; 22 (8): e71688
- **APOE*4 risk-modifying genes and drug targets in Alzheimer's disease through cell-type-specific genomic analyses.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*

Zeng, Y., Cook, N., Yang, C., Sivasankaran, S. K., Fujita, M., Gardell, Z. A., Le Guen, Y., Shigemizu, D., Ozaki, K., Morizono, T., Hara, N., Miyashita, A., Ikeuchi, et al
2026; 22 (6): e71552

- **Effects of α-synuclein pathology on synaptic dysfunction and clinical outcomes in normal aging.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Winer, J. R., Plastini, M. J., Romero, A., Vossler, H., Sai, I., Channappa, D., Abdelnour, C., Shahid-Besanti, M., Wilson, E. N., Oh, H. S., Young, C. B., Trelle, A., Yutsis, et al
  2026; 22 (5): e71455
- **Population-scale burden analysis of rare damaging coding variants identifies novel risk genes for Alzheimer's disease and Parkinson's disease.** *medRxiv : the preprint server for health sciences*
  Le Guen, Y., Pena-Tauber, A., Pulgrossi, R. C., Park, J., Orias, H., Greicius, M. D.
  2026
- **A quantitative trait locus for reduced microglial APOE expression associates with reduced cerebral amyloid angiopathy.** *Nature genetics*
  Belloy, M. E., Graff-Radford, J., Greicius, M. D.
  2026
- **Long-read, multi-omics resource uncovers structural variants driving molecular trait associations and neurodegenerative disease risk**
  Jensen, T., Le Guen, Y., Talozzi, L., Yang, S., Gorzynski, J., Tauber, A. P., Ashley, E. A., Montgomery, S., Greicius, M. D.
  SPRINGERNATURE.2025: 52
- **The functional minisatellite MNS16A at TERT locus associates with Alzheimer's disease risk and related endophenotypes**
  Torbidoni-Baldassari, B., Crocco, P., Pena-Tauber, A., Belloy, M. E., Cecchetti, R., Beccacece, L., Talozzi, L., Huang, J., Boccardi, V., Dato, S., Rose, G., Greicius, M. D., Mecocci, et al
  SPRINGERNATURE.2025: 777
- **ApoE is Secreted as a Lipid Nanoparticle by Mammalian Cells: Implications for Alzheimer's Disease Pathogenesis.** *Biochemistry*
  Hernandez Arriaza, R., Reil, D., Fatuzzo, N., Fu, M., Dai, Y., Fernandez Martinez, D., Jiang, H., Holtzman, D. M., Greicius, M. D., Khosla, C.
  2025
- **Plasma proteomics links brain and immune system aging with healthspan and longevity.** *Nature medicine*
  Oh, H. S., Le Guen, Y., Rappoport, N., Urey, D. Y., Farinas, A., Rutledge, J., Channappa, D., Wagner, A. D., Mormino, E., Brunet, A., Greicius, M. D., Wyss-Coray, T.
  2025
- **Transferability of European-derived Alzheimer's disease polygenic risk scores across multiancestry populations.** *Nature genetics*
  Nicolas, A., Sherva, R., Grenier-Boley, B., Kim, Y., Kikuchi, M., Timsina, J., de Rojas, I., Dalmasso, M. C., Zhou, X., Le Guen, Y., Arboleda-Bustos, C. E., Camargos Bicalho, M. A., Guerchet, et al
  2025
- **Integration of transcriptomics and long-read genomics prioritizes structural variants in rare disease.** *Genome research*
  Jensen, T. D., Ni, B., Reuter, C. M., Gorzynski, J. E., Fazal, S., Bonner, D., Ungar, R. A., Goddard, P. C., Raja, A., Ashley, E. A., Bernstein, J. A., Zuchner, S., Greicius, et al
  2025
- **Rare genetic associations with human lifespan in UK Biobank are enriched for oncogenic genes.** *Nature communications*
  Park, J., Peña-Tauber, A., Talozzi, L., Greicius, M. D., Le Guen, Y.
  2025; 16 (1): 2064
- **regionalpcs improve discovery of DNA methylation associations with complex traits.** *Nature communications*
  Eulalio, T., Sun, M. W., Gevaert, O., Greicius, M. D., Montine, T. J., Nachun, D., Montgomery, S. B.
  2025; 16 (1): 368
- **Plasma Aβ42/Aβ40 is sensitive to early cerebral amyloid accumulation and predicts risk of cognitive decline across the Alzheimer's disease spectrum.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Trelle, A. N., Young, C. B., Vossler, H., Ramos Benitez, J., Cody, K. A., Mendiola, J. H., Swarovski, M. S., Guen, Y. L., Feinstein, I., Butler, R. R., Channappa, D., Romero, A., Park, et al
  2024

- **Proteogenomic analysis of human cerebrospinal fluid identifies neurologically relevant regulation and implicates causal proteins for Alzheimer's disease.** *Nature genetics*
  Western, D., Timsina, J., Wang, L., Wang, C., Yang, C., Phillips, B., Wang, Y., Liu, M., Ali, M., Beric, A., Gorijala, P., Kohlfeld, P., Budde, et al
  2024
- **APOE3 Christchurch Heterozygosity and Autosomal Dominant Alzheimer's Disease.** *The New England journal of medicine*
  Cochran, J. N., Greicius, M. D., Goate, A. M.
  2024; 391 (17): 1660-1661
- **APOE3 Christchurch Heterozygosity and Autosomal Dominant Alzheimer's Disease** *NEW ENGLAND JOURNAL OF MEDICINE*
  Cochran, J., Greicius, M. D., Goate, A. M.
  2024; 391 (17): 1660-+
- **Role of the X Chromosome in Alzheimer Disease Genetics.** *JAMA neurology*
  Belloy, M. E., Le Guen, Y., Stewart, I., Williams, K., Herz, J., Sherva, R., Zhang, R., Merritt, V., Panizzon, M. S., Hauger, R. L., Gaziano, J. M., Logue, M., Napolioni, et al
  2024
- **Deciphering glial contributions to CSF1R-related disorder via single-nuclear transcriptomic profiling: a case study.** *Acta neuropathologica communications*
  Pan, J., Fores-Martos, J., Delpirou Nouh, C., Jensen, T. D., Vallejo, K., Cayrol, R., Ahmadian, S., Ashley, E. A., Greicius, M. D., Cobos, I.
  2024; 12 (1): 139
- **Temporal tau asymmetry spectrum influences divergent behavior and language patterns in Alzheimer's disease.** *Brain, behavior, and immunity*
  Younes, K., Smith, V., Johns, E., Carlson, M. L., Winer, J., He, Z., Henderson, V. W., Greicius, M. D., Young, C. B., Mormino, E. C.
  2024
- **Rare genetic variation in fibronectin 1 (FN1) protects against APOEepsilon4 in Alzheimer's disease.** *Acta neuropathologica*
  Bhattarai, P., Gunasekaran, T. I., Belloy, M. E., Reyes-Dumeyer, D., Julich, D., Tayran, H., Yilmaz, E., Flaherty, D., Turgutalp, B., Sukumar, G., Alba, C., McGrath, E. M., Hupalo, et al
  2024; 147 (1): 70
- **TREM1 disrupts myeloid bioenergetics and cognitive function in aging and Alzheimer disease mouse models.** *Nature neuroscience*
  Wilson, E. N., Wang, C., Swarovski, M. S., Zera, K. A., Ennerfelt, H. E., Wang, Q., Chaney, A., Gauba, E., Ramos Benitez, J. A., Le Guen, Y., Minhas, P. S., Panchal, M., Tan, et al
  2024
- **Integration of transcriptomics and long-read genomics prioritizes structural variants in rare disease.** *medRxiv : the preprint server for health sciences*
  Jensen, T. D., Ni, B., Reuter, C. M., Gorzynski, J. E., Fazal, S., Bonner, D., Ungar, R. A., Goddard, P. C., Raja, A., Ashley, E. A., Bernstein, J. A., Zuchner, S., Greicius, et al
  2024
- **A 3'UTR Insertion Is a Candidate Causal Variant at the TMEM106B Locus Associated With Increased Risk for FTLD-TDP.** *Neurology. Genetics*
  Chemparathy, A., Le Guen, Y., Zeng, Y., Gorzynski, J., Jensen, T. D., Yang, C., Kasireddy, N., Talozzi, L., Belloy, M., Stewart, I., Gitler, A. D., Wagner, A. D., Mormino, et al
  2024; 10 (1): e200124
- **APOE loss-of-function variants: Compatible with longevity and associated with resistance to Alzheimer's disease pathology.** *Neuron*
  Chemparathy, A., Le Guen, Y., Chen, S., Lee, E. G., Leong, L., Gorzynski, J. E., Jensen, T. D., Ferrasse, A., Xu, G., Xiang, H., Belloy, M. E., Kasireddy, N., Peña-Tauber, et al
  2024
- **Report of the APOE4 National Institute on Aging/Alzheimer Disease Sequencing Project Consortium Working Group: Reducing APOE4 in Carriers is a Therapeutic Goal for Alzheimer's Disease.** *Annals of neurology*
  Vance, J. M., Farrer, L. A., Huang, Y., Cruchaga, C., Hyman, B. T., Pericak-Vance, M. A., Goate, A. M., Greicius, M. D., Griswold, A. J., Haines, J. L., Tcw, J., Schellenberg, G. D., Tsai, et al
  2024

- **Substantial Doubt Remains about the Efficacy of Anti-Amyloid Antibodies.** *Journal of Alzheimer's disease : JAD*
  Digma, L. A., Winer, J. R., Greicius, M. D.
  2024; 97 (2): 567-572

- **A mitochondrial inside-out iron-calcium signal reveals drug targets for Parkinson's disease.** *Cell reports*
  Bharat, V., Durairaj, A. S., Vanhauwaert, R., Li, L., Muir, C. M., Chandra, S., Kwak, C. S., Le Guen, Y., Nandakishore, P., Hsieh, C. H., Rensi, S. E., Altman, R. B., Greicius, et al
  2023; 42 (12): 113544

- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
  Oh, H. S., Rutledge, J., Nachun, D., Pálovics, R., Abiose, O., Moran-Losada, P., Channappa, D., Urey, D. Y., Kim, K., Sung, Y. J., Wang, L., Timsina, J., Western, et al
  2023; 624 (7990): 164-172

- **APOE Genotype and Alzheimer Disease Risk Across Age, Sex, and Population Ancestry.** *JAMA neurology*
  Belloy, M. E., Andrews, S. J., Le Guen, Y., Cuccaro, M., Farrer, L. A., Napolioni, V., Greicius, M. D.
  2023

- **Loop diuretics association with Alzheimer's disease risk.** *Frontiers in aging*
  Graber-Naidich, A., Lee, J., Younes, K., Greicius, M. D., Le Guen, Y., He, Z.
  2023; 4: 1211571

- **APOE-ε4 and BIN1 increase risk of Alzheimer's disease pathology but not specifically of Lewy body pathology.** *Acta neuropathologica communications*
  Talyansky, S., Le Guen, Y., Kasireddy, N., Belloy, M. E., Greicius, M. D.
  2023; 11 (1): 149

- **Multiancestry analysis of the HLA locus in Alzheimer's and Parkinson's diseases uncovers a shared adaptive immune response mediated by HLA-DRB1*04 subtypes.** *Proceedings of the National Academy of Sciences of the United States of America*
  Le Guen, Y., Luo, G., Ambati, A., Damotte, V., Jansen, I., Yu, E., Nicolas, A., de Rojas, I., Peixoto Leal, T., Miyashita, A., Bellenguez, C., Lian, M. M., Parveen, et al
  2023; 120 (36): e2302720120

- **Sex- and APOE-specific genetic risk factors for late-onset Alzheimer's disease: Evidence from gene-gene interaction of longevity-related loci.** *Aging cell*
  Dato, S., De Rango, F., Crocco, P., Pallotti, S., Belloy, M. E., Le Guen, Y., Greicius, M. D., Passarino, G., Rose, G., Napolioni, V.
  2023: e13938

- **APOE - ε 4 and BIN1 increase risk of Alzheimer's disease pathology but not specifically of Lewy body pathology.** *medRxiv : the preprint server for health sciences*
  Talyansky, S., Guen, Y. L., Kasireddy, N., Belloy, M. E., Greicius, M. D.
  2023

- **Bumetanide Exposure Association with Alzheimer's Disease Risk.** *Research square*
  Graber-Naidich, A., Lee, J., Younes, K., Greicius, M. D., Le Guen, Y., He, Z.
  2023

- **Association of African Ancestry-Specific APOE Missense Variant R145C With Risk of Alzheimer Disease.** *JAMA*
  Le Guen, Y., Raulin, A., Logue, M. W., Sherva, R., Belloy, M. E., Eger, S. J., Chen, A., Kennedy, G., Kuchenbecker, L., O'Leary, J. P., Zhang, R., Merritt, V. C., Panizzon, et al
  2023; 329 (7): 551-560

- **APOE effects on regional tau in preclinical Alzheimer's disease.** *Molecular neurodegeneration*
  Young, C. B., Johns, E., Kennedy, G., Belloy, M. E., Insel, P. S., Greicius, M. D., Sperling, R. A., Johnson, K. A., Poston, K. L., Mormino, E. C., Alzheimers Disease Neuroimaging Initiative, A4 Study Team
  2023; 18 (1): 1

- **GhostKnockoff inference empowers identification of putative causal variants in genome-wide association studies.** *Nature communications*
  He, Z., Liu, L., Belloy, M. E., Le Guen, Y., Sossin, A., Liu, X., Qi, X., Ma, S., Gyawali, P. K., Wyss-Coray, T., Tang, H., Sabatti, C., Candes, et al
  2022; 13 (1): 7209

- **Exome sequencing identifies rare damaging variants in ATP8B4 and ABCA1 as risk factors for Alzheimer's disease.** *Nature genetics*
  Holstege, H., Hulsman, M., Charbonnier, C., Grenier-Boley, B., Quenez, O., Grozeva, D., van Rooij, J. G., Sims, R., Ahmad, S., Amin, N., Norsworthy, P. J., Dols-Icardo, O., Hummerich, et al
  2022
- **Performance of a fully-automated Lumipulse plasma phospho-tau181 assay for Alzheimer's disease.** *Alzheimer's research & therapy*
  Wilson, E. N., Young, C. B., Ramos Benitez, J., Swarovski, M. S., Feinstein, I., Vandijck, M., Le Guen, Y., Kasireddy, N. M., Shahid, M., Corso, N. K., Wang, Q., Kennedy, G., Trelle, et al
  2022; 14 (1): 172
- **A Fast and Robust Strategy to Remove Variant-Level Artifacts in Alzheimer Disease Sequencing Project Data.** *Neurology. Genetics*
  Belloy, M. E., Le Guen, Y., Eger, S. J., Napolioni, V., Greicius, M. D., He, Z.
  2022; 8 (5): e200012
- **Association of Rare APOE Missense Variants V236E and R251G With Risk of Alzheimer Disease.** *JAMA neurology*
  Le Guen, Y., Belloy, M. E., Grenier-Boley, B., de Rojas, I., Castillo-Morales, A., Jansen, I., Nicolas, A., Bellenguez, C., Dalmasso, C., Küçükali, F., Eger, S. J., Rasmussen, K. L., Thomassen, et al
  2022
- **Divergent Cortical Tau Positron Emission Tomography Patterns Among Patients With Preclinical Alzheimer Disease.** *JAMA neurology*
  Young, C. B., Winer, J. R., Younes, K., Cody, K. A., Betthauser, T. J., Johnson, S. C., Schultz, A., Sperling, R. A., Greicius, M. D., Cobos, I., Poston, K. L., Mormino, E. C., Alzheimers Disease Neuroimaging Initiative and the Harvard Aging Brain Study, et al
  2022
- **Confirming Pathogenicity of the F386L PSEN1 Variant in a South Asian Family With Early-Onset Alzheimer Disease.** *Neurology. Genetics*
  Eger, S. J., Le Guen, Y., Khan, R. R., Hall, J. N., Kennedy, G., Zaharchuk, G., Couthouis, J., Brooks, W. S., Velakoulis, D., Napolioni, V., Belloy, M. E., Dalgard, C. L., Mormino, et al
  1800; 8 (1): e647
- **Phenotypic Heterogeneity among GBA p.R202X Carriers in Lewy Body Spectrum Disorders.** *Biomedicines*
  Napolioni, V., Fredericks, C. A., Kim, Y., Channappa, D., Khan, R. R., Kim, L. H., Zafar, F., Couthouis, J., Davidzon, G. A., Mormino, E. C., Gitler, A. D., Montine, T. J., Schule, et al
  1800; 10 (1)
- **Challenges at the APOE locus: a robust quality control approach for accurate APOE genotyping.** *Alzheimer's research & therapy*
  Belloy, M. E., Eger, S. J., Le Guen, Y., Damotte, V., Ahmad, S., Ikram, M. A., Ramirez, A., Tsolaki, A. C., Rossi, G., Jansen, I. E., de Rojas, I., Parveen, K., Sleegers, et al
  2022; 14 (1): 22
- **Plasma Biomarkers of Tau and Neurodegeneration During Major Cardiac and Noncardiac Surgery.** *JAMA neurology*
  Feinstein, I., Wilson, E. N., Swarovski, M. S., Andreasson, K. I., Angst, M. S., Greicius, M. D.
  2021
- **Rare genetic coding variants associated with human longevity and protection against age-related diseases** *NATURE AGING*
  Lin, J., Sin-Chan, P., Napolioni, V., Torres, G. G., Mitra, J., Zhang, Q., Jabalameli, M., Wang, Z., Nha Nguyen, Gao, T., Laudes, M., Goerg, S., Franke, A., et al
  2021; 1 (9): 783-+
- **Will CMS Find Aducanumab Reasonable and Necessary for Alzheimer Disease After FDA Approval?** *JAMA*
  Schulman, K. A., Greicius, M. D., Richman, B.
  2021
- **Medicare should not cover aducanumab as a treatment for Alzheimer's disease.** *Annals of neurology*
  Moghavem, N., Henderson, V. W., Greicius, M. D.
  2021
- **Identification of putative causal loci in whole-genome sequencing data via knockoff statistics.** *Nature communications*
  He, Z., Liu, L., Wang, C., Le Guen, Y., Lee, J., Gogarten, S., Lu, F., Montgomery, S., Tang, H., Silverman, E. K., Cho, M. H., Greicius, M., Ionita-Laza, et al
  2021; 12 (1): 3152

- **A Robust Test for Additive Gene-Environment Interaction Under the Trend Effect of Genotype Using an Empirical Bayes-Type Shrinkage Estimator.** *American journal of epidemiology*
  Sanyal, N., Napolioni, V., de Rochemonteix, M., Belloy, M. E., Caporaso, N. E., Landi, M. T., Greicius, M. D., Chatterjee, N., Han, S. S.
  2021
- **A novel age-informed approach for genetic association analysis in Alzheimer's disease.** *Alzheimer's research & therapy*
  Le Guen, Y., Belloy, M. E., Napolioni, V., Eger, S. J., Kennedy, G., Tao, R., He, Z., Greicius, M. D., Alzheimers Disease Neuroimaging Initiative
  2021; 13 (1): 72
- **Common X-chromosome variants are associated with Parkinson's disease risk.** *Annals of neurology*
  Le Guen, Y., Napolioni, V., Belloy, M. E., Yu, E., Krohn, L., Ruskey, J. A., Gan-Or, Z., Kennedy, G., Eger, S. J., Greicius, M. D.
  2021
- **Amyloid PET imaging in self-identified non-Hispanic Blacks from the Anti-Amyloid in Asymptomatic Alzheimer's Disease (A4) Study.** *Neurology*
  Deters, K., Napolioni, V., Sperling, R. A., Greicius, M. D., Mayeux, R., Hohman, T., Mormino, E. C.
  2021
- **KLVS heterozygosity reduces brain amyloid in asymptomatic at-risk APOE4 carriers.** *Neurobiology of aging*
  Belloy, M. E., Eger, S. J., Le Guen, Y., Napolioni, V., Deters, K. D., Yang, H., Scelsi, M. A., Porter, T., James, S., Wong, A., Schott, J. M., Sperling, R. A., Laws, et al
  2021; 101: 123–29
- **Network propagation of rare variants in Alzheimer's disease reveals tissue-specific hub genes and communities.** *PLoS computational biology*
  Scelsi, M. A., Napolioni, V. n., Greicius, M. D., Altmann, A. n.
  2021; 17 (1): e1008517
- **Genome-wide analysis of common and rare variants via multiple knockoffs at biobank scale, with an application to Alzheimer disease genetics.** *American journal of human genetics*
  He, Z., Le Guen, Y., Liu, L., Lee, J., Ma, S., Yang, A. C., Liu, X., Rutledge, J., Losada, P. M., Song, B., Belloy, M. E., Butler, R. R., Longo, et al
  2021
- **Failure to demonstrate efficacy of aducanumab: An analysis of the EMERGE and ENGAGE trials as reported by Biogen, December 2019.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Knopman, D. S., Jones, D. T., Greicius, M. D.
  2020
- **A Likelihood Ratio Test for Gene-Environment Interaction Based on the Trend Effect of Genotype Under an Additive Risk Model Using the Gene-Environment Independence Assumption.** *American journal of epidemiology*
  de Rochemonteix, M., Napolioni, V., Sanyal, N., Belloy, M. E., Caporaso, N. E., Landi, M. T., Greicius, M. D., Chatterjee, N., Han, S. S.
  2020
- **Clonally expanded CD8 T cells patrol the cerebrospinal fluid in Alzheimer's disease.** *Nature*
  Gate, D., Saligrama, N., Leventhal, O., Yang, A. C., Unger, M. S., Middeldorp, J., Chen, K., Lehallier, B., Channappa, D., De Los Santos, M. B., McBride, A., Pluvinage, J., Elahi, et al
  2020
- **Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases.** *European journal of nuclear medicine and molecular imaging*
  Mormino, E. C., Toueg, T. N., Azevedo, C. n., Castillo, J. B., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hall, J. N., Fan, A. n., Trelle, A. N., Harrison, M. B., Hunt, M. P., Sha, et al
  2020
- **Recent Consanguinity and Outbred Autozygosity Are Associated With Increased Risk of Late-Onset Alzheimer's Disease.** *Frontiers in genetics*
  Napolioni, V., Scelsi, M. A., Khan, R. R., Altmann, A., Greicius, M. D.
  2020; 11: 629373
- **Association of Klotho-VS Heterozygosity With Risk of Alzheimer Disease in Individuals Who Carry APOE4.** *JAMA neurology*
  Belloy, M. E., Napolioni, V. n., Han, S. S., Le Guen, Y. n., Greicius, M. D.
  2020

- **Rooting out racial stereotypes in Neurology (R) A commentary on "Lucky and the root doctor"** *NEUROLOGY*
  Hamilton, R. H., McClean, J. C., Greicius, M. D., Gamaldo, C. E., Burrus, T. M., Charleston, L., Correa, D. J., Ebong, I. M., Hamilton, R., Lewis, S., Thomas, R. P., Vargas, A., Flippen, et al
  2019; 92 (22): 1029–32

- **A Quarter Century of APOE and Alzheimer's Disease: Progress to Date and the Path Forward** *NEURON*
  Belloy, M. E., Napolioni, V., Greicius, M. D.
  2019; 101 (5): 820–38

- **Ultra-Low-Dose F-18-Florbetaben Amyloid PET Imaging Using Deep Learning with Multi-Contrast MRI Inputs** *RADIOLOGY*
  Chen, K. T., Gong, E., Macruz, F., Xu, J., Boumis, A., Khalighi, M., Poston, K. L., Sha, S. J., Greicius, M. D., Mormino, E., Pauly, J. M., Srinivas, S., Zaharchuk, et al
  2019; 290 (3): 649–56

- **A Quarter Century of APOE and Alzheimer's Disease: Progress to Date and the Path Forward.** *Neuron*
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