



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)
- Faculty Fellow, Sarafan ChEM-H
- 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

Med Scholar Project Advisor

Augustine Chemparathy

Doctoral Dissertation Reader (AC)

John Kochalka

Postdoctoral Faculty Sponsor

Jun Young Park

Publications

PUBLICATIONS

- **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 A β 42/A β 40 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
- **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., Hupaló, 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 FTL-DTP.** *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., Nornworthy, 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., Betthausen, 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.** *Biomedicine*
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*
Belloy, M. E., Napolioni, V. n., Greicius, M. D.
2019; 101 (5): 820–38
- **Ultra-Low-Dose 18F-Florbetaben Amyloid PET Imaging Using Deep Learning with Multi-Contrast MRI Inputs.** *Radiology*
Chen, K. T., Gong, E., de Carvalho Macruz, F. B., 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
2018: 180940
- **Effect of Alzheimer's disease risk and protective factors on cognitive trajectories in subjective memory complainers: An INSIGHT-preAD study** *ALZHEIMERS & DEMENTIA*
Teipel, S. J., Cavado, E., Lista, S., Habert, M., Potier, M., Grothe, M. J., Epelbaum, S., Sambati, L., Gagliardi, G., Toschi, N., Greicius, M. D., Dubois, B., Hampel, et al
2018; 14 (9): 1126–36
- **Genetic study of multimodal imaging Alzheimer's disease progression score implicates novel loci** *BRAIN*
Scelsi, M. A., Khan, R. R., Lorenzi, M., Christopher, L., Greicius, M. D., Schott, J. M., Ourselin, S., Altmann, A., Alzheimer's Dis Neuroimaging, Natl Alzheimer's Coordinating Ctr
2018; 141: 2167–80
- **PINK1 Phosphorylates MIC60/Mitofilin to Control Structural Plasticity of Mitochondrial Crista Junctions.** *Molecular cell*
Tsai, P. I., Lin, C. H., Hsieh, C. H., Papakyrikos, A. M., Kim, M. J., Napolioni, V. n., Schoor, C. n., Couthouis, J. n., Wu, R. M., Wszolek, Z. K., Winter, D. n., Greicius, M. D., Ross, et al
2018
- **Mnemonic Training Reshapes Brain Networks to Support Superior Memory** *NEURON*
Dresler, M., Shirer, W. R., Konrad, B. N., Mueller, N. C., Wagner, I. C., Fernandez, G., Czisch, M., Greicius, M. D.
2017; 93 (5): 1227-?
- **Dissociated patterns of anti-correlations with dorsal and ventral default-mode networks at rest.** *Human brain mapping*
Chen, J. E., Glover, G. H., Greicius, M. D., Chang, C.
2017
- **Ruminative brooding is associated with salience network coherence in early pubertal youth** *SOCIAL COGNITIVE AND AFFECTIVE NEUROSCIENCE*
Ordaz, S. J., LeMoult, J., Colich, N. L., Prasad, G., Pollak, M., Popolizio, M., Price, A., Greicius, M., Gotlib, I. H.
2017; 12 (2): 298-310
- **A variant in PPP4R3A protects against Alzheimer-related metabolic decline.** *Annals of neurology*
Christopher, L. n., Napolioni, V. n., Khan, R. R., Han, S. S., Greicius, M. D.
2017

- **Overdominant effect of a CHRNA4 polymorphism on cingulo-opercular network activity and cognitive control.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Sadaghiani, S. n., Ng, B. n., Altmann, A. n., Poline, J. B., Banaschewski, T. n., Bokde, A. L., Bromberg, U. n., Büchel, C. n., Burke Quinlan, E. n., Conrod, P. n., Desrivieres, S. n., Flor, H. n., Frouin, et al
2017
- **Distinct alterations in Parkinson's medication-state and disease-state connectivity** *NEUROIMAGE-CLINICAL*
Ng, B., Varoquaux, G., Poline, J., Thirion, B., Greicius, M. D., Poston, K. L.
2017; 16: 575–85
- **Identification of Mood-Relevant Brain Connections Using a Continuous, Subject-Driven Rumination Paradigm.** *Cerebral cortex*
Milazzo, A., Ng, B., Jiang, H., Shirer, W., Varoquaux, G., Poline, J. B., Thirion, B., Greicius, M. D.
2016; 26 (3): 933-942
- **Validation of non-REM sleep stage decoding from resting state fMRI using linear support vector machines** *NEUROIMAGE*
Altmann, A., Schroeter, M. S., Spoomaker, V. I., Kiem, S. A., Jordan, D., Ilg, R., Bullmore, E. T., Greicius, M. D., Czisch, M., Saemann, P. G.
2016; 125: 544-555
- **Transport on Riemannian Manifold for Connectivity-Based Brain Decoding** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Ng, B., Varoquaux, G., Poline, J. B., Greicius, M., Thirion, B.
2016; 35 (1): 208-216
- **Resting-State Functional MRI: A Novel Tool for Understanding Brain Networks in Neuropsychiatric Disorders** *GENOMICS, CIRCUITS, AND PATHWAYS IN CLINICAL NEUROPSYCHIATRY*
Greicius, M., Lehner, T., Miller, B. L., State, M. W.
2016: 247–62
- **Regional brain hypometabolism is unrelated to regional amyloid plaque burden** *BRAIN*
Altmann, A., Ng, B., Landau, S. M., Jagust, W. J., Greicius, M. D.
2015; 138: 3734-3746
- **Loss of functional connectivity is greater outside the default mode network in nonfamilial early-onset Alzheimer's disease variants.** *Neurobiology of aging*
Lehmann, M., Madison, C., Ghosh, P. M., Miller, Z. A., Greicius, M. D., Kramer, J. H., Coppola, G., Miller, B. L., Jagust, W. J., Gorno-Tempini, M. L., Seeley, W. W., Rabinovici, G. D.
2015; 36 (10): 2678-2686
- **Modulation of Creutzfeldt-Jakob disease prion propagation by the A224V mutation.** *Annals of neurology*
Watts, J. C., Giles, K., Serban, A., Patel, S., Oehler, A., Bhardwaj, S., Guan, S., Greicius, M. D., Miller, B. L., DeArmond, S. J., Geschwind, M. D., Prusiner, S. B.
2015; 78 (4): 540-553
- **The posterior medial cortex in urologic chronic pelvic pain syndrome: detachment from default mode network-a resting-state study from the MAPP Research Network** *PAIN*
Martucci, K. T., Shirer, W. R., Bagarinao, E., Johnson, K. A., Farmer, M. A., Labus, J. S., Apkarian, A. V., Deutsch, G., Harris, R. E., Mayer, E. A., Clauw, D. J., Greicius, M. D., Mackey, et al
2015; 156 (9): 1755-1764
- **The posterior medial cortex in urologic chronic pelvic pain syndrome: detachment from default mode network-a resting-state study from the MAPP Research Network.** *Pain*
Martucci, K. T., Shirer, W. R., Bagarinao, E., Johnson, K. A., Farmer, M. A., Labus, J. S., Apkarian, A. V., Deutsch, G., Harris, R. E., Mayer, E. A., Clauw, D. J., Greicius, M. D., Mackey, et al
2015; 156 (9): 1755-1764
- **Optimization of rs-fMRI Pre-processing for Enhanced Signal-Noise Separation, Test-Retest Reliability, and Group Discrimination** *NEUROIMAGE*
Shirer, W. R., Jiang, H., Price, C. M., Ng, B., Greicius, M. D.
2015; 117: 67-79
- **Correlated gene expression supports synchronous activity in brain networks** *SCIENCE*

- Richiardi, J., Altmann, A., Milazzo, A., Chang, C., Chakravarty, M. M., Banaschewski, T., Barker, G. J., Bokde, A. L., Bromberg, U., Buechel, C., Conrod, P., Fauth-Buehler, M., Flor, et al
2015; 348 (6240): 1241-1244
- **Introducing co-activation pattern metrics to quantify spontaneous brain network dynamics** *NEUROIMAGE*
Chen, J. E., Chang, C., Greicius, M. D., Glover, G. H.
2015; 111: 476-488
 - **Expert consensus document: Mind the gaps-advancing research into short-term and long-term neuropsychological outcomes of youth sports-related concussions.** *Nature reviews. Neurology*
Carman, A. J., Ferguson, R., Cantu, R., Comstock, R. D., Dacks, P. A., DeKosky, S. T., Gandy, S., Gilbert, J., Gilliland, C., Gioia, G., Giza, C., Greicius, M., Hainline, et al
2015; 11 (4): 230-244
 - **Bootstrapped Permutation Test for Multiresponse Inference on Brain Behavior Associations.** *Information processing in medical imaging : proceedings of the ... conference*
Ng, B., Poline, J. B., Thirion, B., Greicius, M.
2015; 24: 113-124
 - **Neuropathologic analysis of Tyr69His TTR variant meningovascular amyloidosis with dementia.** *Acta neuropathologica communications*
Ziskin, J. L., Greicius, M. D., Zhu, W., Okumu, A. N., Adams, C. M., Plowey, E. D.
2015; 3 (1): 43-?
 - **Disentangling Dynamic Networks: Separated and Joint Expressions of Functional Connectivity Patterns in Time** *HUMAN BRAIN MAPPING*
Leonardi, N., Shirer, W. R., Greicius, M. D., Van De Ville, D.
2014; 35 (12): 5984-5995
 - **Apolipoprotein E, gender, and Alzheimer's disease: an overlooked, but potent and promising interaction.** *Brain imaging and behavior*
Ungar, L., Altmann, A., Greicius, M. D.
2014; 8 (2): 262-273
 - **Sex modifies the APOE-related risk of developing Alzheimer disease.** *Annals of neurology*
Altmann, A., Tian, L., Henderson, V. W., Greicius, M. D.
2014; 75 (4): 563-573
 - **Transport on Riemannian manifold for functional connectivity-based classification.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Ng, B., Dressler, M., Varoquaux, G., Poline, J. B., Greicius, M., Thirion, B.
2014; 17: 405-412
 - **Transport on Riemannian Manifold for Functional Connectivity-Based Classification** *17th International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI)*
Ng, B., Dressler, M., Varoquaux, G., Poline, J. B., Greicius, M., Thirion, B.
SPRINGER-VERLAG BERLIN.2014: 405-12
 - **The will to persevere induced by electrical stimulation of the human cingulate gyrus.** *Neuron*
Parvizi, J., Rangarajan, V., Shirer, W. R., Desai, N., Greicius, M. D.
2013; 80 (6): 1359-1367
 - **Identifying large-scale brain networks in fragile x syndrome.** *JAMA psychiatry*
Hall, S. S., Jiang, H., Reiss, A. L., Greicius, M. D.
2013; 70 (11): 1215-1223
 - **Disordered reward processing and functional connectivity in trichotillomania: A pilot study** *JOURNAL OF PSYCHIATRIC RESEARCH*
White, M. P., Shirer, W. R., Molfino, M. J., Tenison, C., Damoiseaux, J. S., Greicius, M. D.
2013; 47 (9): 1264-1272
 - **Intrinsic connectivity networks in healthy subjects explain clinical variability in Alzheimer's disease** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lehmann, M., Madison, C. M., Ghosh, P. M., Seeley, W. W., Mormino, E., Greicius, M. D., Gorno-Tempini, M. L., Kramer, J. H., Miller, B. L., Jagust, W. J., Rabinovici, G. D.

2013; 110 (28): 11606-11611

- **Altered resting state network activity in complex regional pain syndrome**
Martucci, K., BARAD, M., Shirer, W., Greicius, M., Mackey, S.
CHURCHILL LIVINGSTONE.2013: S48–S48
- **Diverging patterns of amyloid deposition and hypometabolism in clinical variants of probable Alzheimer's disease** *BRAIN*
Lehmann, M., Ghosh, P. M., Madison, C., Laforce, R., Corbetta-Rastelli, C., Weiner, M. W., Greicius, M. D., Seeley, W. W., Gorno-Tempini, M. L., Rosen, H. J., Miller, B. L., Jagust, W. J., Rabinovici, et al
2013; 136: 844-858
- **Sporadic Jakob-Creutzfeldt Disease Presenting as Primary Progressive Aphasia** *JAMA NEUROLOGY*
Johnson, D. Y., Dunkelberger, D. L., Henry, M., Haman, A., Greicius, M. D., Wong, K., DeArmond, S. J., Miller, B. L., Gorno-Tempini, M. L., Geschwind, M. D.
2013; 70 (2): 254-257
- **Two test statistics for cross-modal graph community significance** *3rd International Workshop on Pattern Recognition in NeuroImaging (PRNI)*
Richiardi, J., Altmann, A., Greicius, M.
IEEE.2013: 70–73
- **Neuroimaging insights into network-based neurodegeneration** *CURRENT OPINION IN NEUROLOGY*
Greicius, M. D., Kimmel, D. L.
2012; 25 (6): 727-734
- **Introduction to the Special Issue on Connectivity** *NEUROIMAGE*
Greicius, M. D., Seeley, W. W.
2012; 62 (4): 2181-2181
- **Efficacy of Transcranial Magnetic Stimulation Targets for Depression Is Related to Intrinsic Functional Connectivity with the Subgenual Cingulate** *BIOLOGICAL PSYCHIATRY*
Fox, M. D., Buckner, R. L., White, M. P., Greicius, M. D., Pascual-Leone, A.
2012; 72 (7): 595-603
- **Gender Modulates the APOE epsilon 4 Effect in Healthy Older Adults: Convergent Evidence from Functional Brain Connectivity and Spinal Fluid Tau Levels** *JOURNAL OF NEUROSCIENCE*
Damoiseaux, J. S., Seeley, W. W., Zhou, J., Shirer, W. R., Coppola, G., Karydas, A., Rosen, H. J., Miller, B. L., Kramer, J. H., Greicius, M. D.
2012; 32 (24): 8254-8262
- **Functional connectivity tracks clinical deterioration in Alzheimer's disease** *NEUROBIOLOGY OF AGING*
Damoiseaux, J. S., Prater, K. E., Miller, B. L., Greicius, M. D.
2012; 33 (4)
- **Gender Modulates the APOE epsilon 4 Effect in Healthy Older Controls: Convergent Evidence from Functional Brain Connectivity and Spinal Fluid Tau Levels** *64th Annual Meeting of the American-Academy-of-Neurology (AAN)*
Damoiseaux, J., Seeley, W., Shirer, W., Coppola, G., Karydas, A., Miller, B., Kramer, J., Greicius, M.
LIPPINCOTT WILLIAMS & WILKINS.2012
- **Decoding Subject-Driven Cognitive States with Whole-Brain Connectivity Patterns** *CEREBRAL CORTEX*
SHIRER, W. R., RYALI, S., Rykhlevskaia, E., Menon, V., Greicius, M. D.
2012; 22 (1): 158-165
- **Relationships between Beta-Amyloid and Functional Connectivity in Different Components of the Default Mode Network in Aging** *CEREBRAL CORTEX*
Mormino, E. C., Smiljic, A., Hayenga, A. O., Onami, S. H., Greicius, M. D., Rabinovici, G. D., Janabi, M., Baker, S. L., Yen, I. V., Madison, C. M., Miller, B. L., Jagust, W. J.
2011; 21 (10): 2399-2407
- **Differential electrophysiological response during rest, self-referential, and non-self-referential tasks in human posteromedial cortex** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Dastjerdi, M., Foster, B. L., Nasrullah, S., Rauschecker, A. M., Dougherty, R. F., Townsend, J. D., Chang, C., Greicius, M. D., Menon, V., Kennedy, D. P., Parvizi, J.

2011; 108 (7): 3023-3028

- **Breakdown of within- and between-network Resting State Functional Magnetic Resonance Imaging Connectivity during Propofol-induced Loss of Consciousness** *ANESTHESIOLOGY*
Boveroux, P., Vanhaudenhuyse, A., Bruno, M., Noirhomme, Q., Lauwick, S., Luxen, A., Degueldre, C., Plenevaux, A., Schnakers, C., Phillips, C., Brichant, J., Bonhomme, V., Maquet, et al
2010; 113 (5): 1038-1053
- **Dissociable Connectivity within Human Angular Gyrus and Intraparietal Sulcus: Evidence from Functional and Structural Connectivity** *CEREBRAL CORTEX*
Uddin, L. Q., Supekar, K., Amin, H., Rykhlevskaia, E., Nguyen, D. A., Greicius, M. D., Menon, V.
2010; 20 (11): 2636-2646
- **Development of functional and structural connectivity within the default mode network in young children** *NEUROIMAGE*
Supekar, K., Uddin, L. Q., Prater, K., Amin, H., Greicius, M. D., Menon, V.
2010; 52 (1): 290-301
- **Functional magnetic resonance imaging and estrogen effects on the brain: cautious interpretation of a BOLD finding** *MENOPAUSE-THE JOURNAL OF THE NORTH AMERICAN MENOPAUSE SOCIETY*
Henderson, V. W., Greicius, M. D.
2010; 17 (4): 669-671
- **Divergent network connectivity changes in behavioural variant frontotemporal dementia and Alzheimer's disease** *BRAIN*
Zhou, J., Greicius, M. D., Gennatas, E. D., Growdon, M. E., Jang, J. Y., Rabinovici, G. D., Kramer, J. H., Weiner, M., Miller, B. L., Seeley, W. W.
2010; 133: 1352-1367
- **Default network connectivity reflects the level of consciousness in non-communicative brain-damaged patients** *BRAIN*
Vanhaudenhuyse, A., Noirhomme, Q., Tshibanda, L. J., Bruno, M., Boveroux, P., Schnakers, C., Soddu, A., Perlbarg, V., Ledoux, D., Brichant, J., Moonen, G., Maquet, P., Greicius, et al
2010; 133: 161-171
- **Clinical applications of resting state functional connectivity.** *Frontiers in systems neuroscience*
Fox, M. D., Greicius, M.
2010; 4: 19-?
- **Episodic encephalopathy due to an occult spinal vascular malformation complicated by superficial siderosis** *CLINICAL NEUROLOGY AND NEUROSURGERY*
Gonella, M. C., Fischbein, N. J., Lane, B., Shuer, L. M., Greicius, M. D.
2010; 112 (1): 82-84
- **Disrupted Amygdalar Subregion Functional Connectivity and Evidence of a Compensatory Network in Generalized Anxiety Disorder** *ARCHIVES OF GENERAL PSYCHIATRY*
Etkin, A., Prater, K. E., Schatzberg, A. F., Menon, V., Greicius, M. D.
2009; 66 (12): 1361-1372
- **Greater than the sum of its parts: a review of studies combining structural connectivity and resting-state functional connectivity** *BRAIN STRUCTURE & FUNCTION*
Damoiseaux, J. S., Greicius, M. D.
2009; 213 (6): 525-533
- **Distinct Cerebellar Contributions to Intrinsic Connectivity Networks** *JOURNAL OF NEUROSCIENCE*
Habas, C., Kamdar, N., Nguyen, D., Prater, K., Beckmann, C. F., Menon, V., Greicius, M. D.
2009; 29 (26): 8586-8594
- **Neurodegenerative Diseases Target Large-Scale Human Brain Networks** *NEURON*
Seeley, W. W., Crawford, R. K., Zhou, J., Miller, B. L., Greicius, M. D.
2009; 62 (1): 42-52
- **Resting-State Functional Connectivity Reflects Structural Connectivity in the Default Mode Network** *CEREBRAL CORTEX*
Greicius, M. D., Supekar, K., Menon, V., Dougherty, R. F.
2009; 19 (1): 72-78

- **Resting-state functional connectivity in neuropsychiatric disorders** *CURRENT OPINION IN NEUROLOGY*
Greicius, M.
2008; 21 (4): 424-430
- **Default-mode function and task-induced deactivation have overlapping brain substrates in children** *NEUROIMAGE*
Thomason, M. E., Chang, C. E., Glover, G. H., Gabrieli, J. D., Greicius, M. D., Gotlib, I. H.
2008; 41 (4): 1493-1503
- **Persistent default-mode network connectivity during light sedation** *HUMAN BRAIN MAPPING*
Greicius, M. D., Kiviniemi, V., Tervonen, O., Vainionpaa, V., Alahuhta, S., Reiss, A. L., Menon, V.
2008; 29 (7): 839-847
- **A cross-modal system linking primary auditory and visual cortices: Evidence from intrinsic fMRI connectivity analysis** *HUMAN BRAIN MAPPING*
Eckert, M. A., Kamdar, N. V., Chang, C. E., Beckmann, C. F., Greicius, M. D., Menon, V.
2008; 29 (7): 848-857
- **Network analysis of intrinsic functional brain connectivity in Alzheimer's disease** *PLOS COMPUTATIONAL BIOLOGY*
Supekar, K., Menon, V., Rubin, D., Musen, M., Greicius, M. D.
2008; 4 (6)
- **Divergent social functioning in behavioral variant frontotemporal dementia and Alzheimer disease: Reciprocal networks and neuronal evolution** *5th International Meeting on Frontotemporal Dementia Conference*
Seeley, W. W., Allman, J. M., Carlin, D. A., Crawford, R. K., Macedo, M. N., Greicius, M. D., DeArmond, S. J., Miller, B. L.
LIPPINCOTT WILLIAMS & WILKINS.2007: S50-S57
- **Resting-state functional connectivity in major depression: Abnormally increased contributions from subgenual cingulate cortex and thalamus** *BIOLOGICAL PSYCHIATRY*
Greicius, M. D., Flores, B. H., Menon, V., Glover, G. H., Solvason, H. B., Kenna, H., Reiss, A. L., Schatzberg, A. F.
2007; 62 (5): 429-437
- **Dissociable intrinsic connectivity networks for salience processing and executive control** *JOURNAL OF NEUROSCIENCE*
Seeley, W. W., Menon, V., Schatzberg, A. F., Keller, J., Glover, G. H., Kenna, H., Reiss, A. L., Greicius, M. D.
2007; 27 (9): 2349-2356
- **Prospects for prediction - Ethics analysis of neuroimaging in Alzheimer's disease** *Meeting on Imaging and the Aging Brain*
Illes, J., Rosen, A., Greicius, M., Racine, E.
BLACKWELL PUBLISHING.2007: 278-295
- **Non-fluent progressive aphasia, depression, and OCD in a woman with progressive supranuclear palsy: Neuroanatomical and neuropathological correlations** *NEUROCASE*
Karnik, N. S., D'Apuzzo, M., Greicius, M.
2006; 12 (6): 332-338
- **Default-mode activity during a passive sensory task: Uncoupled from deactivation but impacting activation** *JOURNAL OF COGNITIVE NEUROSCIENCE*
Greicius, M. D., Menon, V.
2004; 16 (9): 1484-1492
- **Reduced basal forebrain and hippocampal activation during memory encoding in girls with fragile X syndrome** *NEUROREPORT*
Greicius, M. D., Boyett-Anderson, J. M., Menon, V., Reiss, A. L.
2004; 15 (10): 1579-1583
- **Default-mode network activity distinguishes Alzheimer's disease from healthy aging: Evidence from functional MRI** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Greicius, M. D., Srivastava, G., Reiss, A. L., Menon, V.
2004; 101 (13): 4637-4642
- **Blockade of central cholinergic receptors impairs new learning and increases proactive interference in a word paired-associate memory task** *BEHAVIORAL NEUROSCIENCE*
Atri, A., Sherman, S., Norman, K. A., Kirchoff, B. A., Nicolas, M. M., Greicius, M. D., Cramer, S. C., Breiter, H. C., Hasselmo, M. E., Stern, C. E.

2004; 118 (1): 223-236

- **Humor modulates the mesolimbic reward centers** *NEURON*
Mobbs, D., Greicius, M. D., Abdel-Azim, E., Menon, V., Reiss, A. L.
2003; 40 (5): 1041-1048
- **Comparison of fMRI activation at 3 and 1.5 T during perceptual, cognitive, and affective processing** *NEUROIMAGE*
Krasnow, B., Tamm, L., Greicius, M. D., Yang, T. T., Glover, G. H., Reiss, A. L., Menon, V.
2003; 18 (4): 813-826
- **Neuroimaging in developmental disorders** *CURRENT OPINION IN NEUROLOGY*
Greicius, M. D.
2003; 16 (2): 143-146
- **Functional connectivity in the resting brain: A network analysis of the default mode hypothesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Greicius, M. D., Krasnow, B., Reiss, A. L., Menon, V.
2003; 100 (1): 253-258
- **Regional analysis of hippocampal activation during memory encoding and retrieval: fMRI study** *HIPPOCAMPUS*
Greicius, M. D., Krasnow, B., Boyett-Anderson, J. M., Eliez, S., Schatzberg, A. F., Reiss, A. L., Menon, V.
2003; 13 (1): 164-174
- **Presenile dementia syndromes: an update on taxonomy and diagnosis** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*
Greicius, M. D., Geschwind, M. D., Miller, B. L.
2002; 72 (6): 691-700