



Fried Received National TMS Research Grant

Congratulations to **Peter Fried, MD**, and postdoctoral fellow **Giacomo Bertazzoli, PhD**, on receiving the **Neil S. Hirsch Neurotherapeutic TMS Research Grant** from the Foundation for the Advancement of Clinical TMS (FACTMS).

Their newly funded project, **ReCARE-TMS (Restoring Cognition after Amyloid Removal using TMS)**, will investigate whether transcranial magnetic stimulation can improve cognition in patients with Alzheimer's disease following amyloid removal therapy.

1. Haack M, Chan J, Engert LC, Dang R, Wang H, Borducchi EN, Shah K, Liu J, Sun H, Ganglberger W, Karlson EW, Prather AA, Barouch DH, **Mullington JM**. [The effect of pre-existing sleep disturbance on T cell responses to SARS-CoV-2 variants, pro-inflammatory and pro-resolving mediators, and glucocorticoid sensitivity in Long COVID](#). Sci Rep. 2026 Apr 3;16(1).

Division/program: Sleep / Neuroimmunology | PMID: 41933012 | PMCID: PMC13199573 | Publication type: Original research

2. Dookhy J, Cummings M, Price E, Liu Y, Gutierrez-Gomez S, O'Shea S, **Frank S**, Au R, Gurnani AS, Ang TFA, Mez J, **Shih LC**. [Dementia Incidence in Individuals With Parkinson's Disease in the Framingham Heart Study](#). Ann Clin Transl Neurol. 2026 Apr 7.

Division/program: Movement Disorders | PMID: 41944089 | DOI: [10.1002/acn3.70383](#) | Publication type: Original research

3. Ramirez-Plascencia OD, De Luca R, Machado NLS, Eghlidi D, Khanday MA, Bandaru SS, Raffin F, Vujovic N, **Arrigoni E**, **Saper CB**. [A hypothalamic circuit for circadian regulation of corticosterone secretion](#). Nat Commun. 2026 Apr 7;17(1):4940.

Division/program: Sleep / Basic Neuroscience | PMID: 41946720 | PMCID: PMC13233844 | DOI: [10.1038/s41467-026-71482-0](#) | Publication type: Original research

4. Parent JH, Levine T, **Freeman R**, **Gibbons CH**. [The Syn-Q study: detection of cutaneous phosphorylated alpha-synuclein in Parkinson's disease progression: a trial protocol](#). Front Neurol. 2026 Apr 14;17:1823991.

Division/program: Autonomic Neurology | PMID: 42057930 | PMCID: PMC13121157 | DOI: [10.3389/fneur.2026.1823991](#) | Publication type: Protocol

5. Awamleh M, Hamad M, Jariri A, **Selim M**. [Artificial intelligence in stroke management: From prevention to treatment](#). Digit Health. 2026;12:20552076261433849.
Division/program: Stroke | PMID: 42052419 | PMCID: PMC13111860 | DOI: [10.1177/20552076261433849](#) | Publication type: Review
6. Lian G, Khabazeh A, **Sheen V**. [A modified CRISPR/Cas9 approach in silencing the triplication in Down syndrome: A treatment path XISTs](#). Proc Natl Acad Sci U S A. 2026 Apr 21;123(16):e2517953123.
Division/program: Epilepsy / Neurogenetics | PMID: 41973928 | PMCID: PMC13099551 | Publication type: Original research
7. Sun H, Dang R, Li P, Xiao W, Scott-Sutherland J, Sassower KC, **Westover MB**, Felsenstein D, Thomas RJ, **Haack M**, **Mullington JM**. [Facility-measured sleep electroencephalographic microstructures in long COVID](#). Sleep. 2026 Apr 22:zsag090.
Division/program: Sleep / Epilepsy Data Science | PMID: 42017829 | DOI: [10.1093/sleep/zsag090](#) | Publication type: Original research
8. Ning MH, Sun H, Passera B, Das DB, **Westover MB**, Pascual-Leone A, Santarnecchi E, **Shafi MM**, Ozdemir RA. [Complexity of resting cortical activity predicts neurophysiological responses to theta-burst stimulation but fails to generalize: A rigorous machine-learning approach](#). PLoS Comput Biol. 2026 Apr 30;22(4):e1014154.
Division/program: Noninvasive Brain Stimulation / Data Science | PMID: 42060616 | PMCID: PMC13132237 | DOI: [10.1371/journal.pcbi.1014154](#) | Publication type: Original research
9. Young MJ, **Simon D**, Evans BJ. [Safeguarding Neural Data](#). Neurology. 2026 May 26;106(10):e214942. Epub 2026 Apr 30.
Division/program: Movement Disorders / Ethics | PMID: 42060878 | DOI: [10.1212/WNL.0000000000214942](#) | Publication type: Viewpoint
10. Blank LJ, Johnson EL, Pellerin KR, Sarkis RA, Gaston TE, **Shafi MM**, Zepeda R, Camitan M, Anderson T, Hankerson A, Jan A, Jung K, Leake M, **Westover MB**, Lam AD. [Late-Onset Seizures: Etiology and Demographics in US Tertiary Care Epilepsy Centers](#). Neurology. 2026 Jun 9;106(11):e214948. Epub 2026 May 7.
Division/program: Epilepsy | PMID: 42096671 | DOI: [10.1212/WNL.0000000000214948](#) | Publication type: Original research
11. Yekeduz MK, van Gool R, van der Heijden H, Sonbas-Cobb B, Shah N, Johnson G, Timpani CA, Shulman J, Rameh V, Hsu EE, LeSon C, Lee PY, Vogel AP, Al-Hertani W, Park HJ, Rybalka E, **Rutkove SB**, Upadhyay J. [Multimodal Noninvasive Biomarker Characterization of Structural and Functional Alterations in ADSS1-Deficient Myopathy](#). J Inherit Metab Dis. 2026 May;49(3):e70193.
Division/program: Neuromuscular | PMID: 42023707 | DOI: [10.1002/jimd.70193](#) | Publication type: Original research



12. Lu N, Kunicki ZJ, Jones RN, Vasunilashorn SM, Inouye SK, Pascual-Leone A, **Fong TG**, Metzger E, Libermann T, Trivison TG, Marcantonio ER, Ngo LH. [Cognitive Trajectories After Major Surgery in Older Adults and Factors Associated With Severe Decline](#). J Am Geriatr Soc. 2026 May 16.

Division/program: Cognitive Neurology / Delirium | PMID: 42142032 | Publication type: Original research

13. Friedman JH, Akbar U, Beehler B, Chou KL, Cloud LJ, Deik A, Gilbert R, Gomperts SN, Goudreau JL, Gunzler SA, Lizarraga K, Malaty I, Maurer CW, Miyasaki J, Mohammed N, Morgan JC, Munhoz RP, Pal G, Shulman L, **Simon D**, Pontone G. [True vignettes: interesting, illustrative examples of behavioral abnormalities in people with Parkinson's disease](#). Arq Neuropsiquiatr. 2026 May;84(5):1-6.

Division/program: Movement Disorders | PMID: 42150593 | PMCID: PMC13183462 | DOI: [10.1055/s-0046-1822631](#) | Publication type: Clinical observations

15. Diamond AB, **Fried PJ**, **Buss SS**, **Mullington JM**, Brown JC, MacDonnell K, Mattos MK. [Treating insomnia in mild cognitive impairment: a novel approach combining transcranial magnetic stimulation with cognitive behavioral therapy](#). Int Rev Psychiatry. 2026 May 19:1-17.

Division/program: Cognitive Neurology / Noninvasive Brain Stimulation / Sleep | PMID: 42157607 | DOI: [10.1080/09540261.2026.2671089](#) | Publication type: Original research

16. Sonbas-Cobb B, **Rutkove SB**, Wei B, Robicheau S, Arnold WD, Hives K, Bartlett A, Riley P, Pagan A, Chrzanowski SM, Darras BT, Kolb SJ. [Multifrequency Electrical Impedance Myography Enhanced with Machine Learning for Screening Patients with Neuromuscular Disorders](#). Ann Biomed Eng. 2026 May 22.

Division/program: Neuromuscular | PMID: 42171878 | DOI: [10.1007/s10439-026-04175-w](#) | Publication type: Original research

17. Musaeus CS, Curnin CB, Muthupalaniappan S, Friedman G, Aslarus I, Hayashi T, Smith MA, **Press DZ**. [Feasibility and validity of the D-Cog: A novel digital spatial working memory test for dementia assessment](#). J Alzheimers Dis. 2026 Jun;111(3):1309-1316.

Division/program: Cognitive Neurology | PMID: 42012391 | Publication type: Validation study

18. Goldenholz DM, Goldenholz SR, Mullan H, Moss R, **Drislane FW**, **Westover MB**. [Self-Reported Seizure Durations](#). JAMA Neurol. 2026 Jun 8.

Division/program: Epilepsy | PMID: 42258203 | DOI: [10.1001/jamaneurol.2026.1644](#) | Publication type: Original research

19. Hshieh TT, Kunicki ZJ, **Fong TG**, Marcantonio ER, Schmitt EM, Xu G, Jones RN, Inouye SK. [Rehospitalization and the Association of Postoperative Delirium With Cognitive Decline in Older Adults](#). JAMA Intern Med. 2026 Jun 8.

Division/program: Cognitive Neurology / Delirium | PMID: 42258189 | DOI: [10.1001/jamainternmed.2026.1910](#) | Publication type: Original research

20. Park CM, Kim EG, **Luo L**, Shi SM, McCarthy EP, Kim DH. [Social determinants of health and utilization of transitional and chronic care management services among Medicare beneficiaries: a case-control study](#). Gerontologist. 2026 Jun 9;66(7).

Division/program: Movement Disorders / Health Services | PMID: 42166741 | DOI: [10.1093/geront/gnag113](#) | Publication type: Original research

21. Balshi A, Dempsey JP, Zhang-James Y, **Sloane JA**. [Electronic Health Record-Based Estimates of Acute Disseminated Encephalomyelitis Epidemiology in a Large Healthcare Network, 2000-2025](#). Neurohospitalist. 2026 Jun 18;19418744261463751.

Division/program: Neuroimmunology | PMID: 42333211 | PMCID: PMC13283612 | DOI: [10.1177/19418744261463751](#) | Publication type: Original research

22. Viola M, Reda H, **Hovaguimian A**, **Zuflacht J**. [Education Research: Case-Based and Near-Peer Teaching on Functional Neurologic Disorder in the Neurology Clerkship: A Cross-Site Comparative Pilot Study](#). Neurology Education. 2026 Jul 6:e200342.

Division/program: General Neurology / Neurohospitalist Education | PMID: 42404405 | PMCID: PMC13330575 | DOI: [10.1212/NE9.000000000200342](#) | Publication type: Education research