

Stanford



Sharon Sha, MD, MS

Clinical Professor, Neurology & Neurological Sciences

CLINICAL OFFICE (PRIMARY)

- Stanford Neuroscience Health Center

213 Quarry Rd
MC 5957 Fl 2
Palo Alto, CA 94304
Tel (650) 723-6469 **Fax** (650) 725-7459

Bio

BIO

Dr. Sha is a Clinical Professor of Neurology and Neurological Sciences at Stanford University where she serves as Chief for the Memory Disorders Division and the Stanford Memory Disorders Center, Associate Vice Chair of Clinical Research, Director of the Huntington's Disease Center of Excellence and Ataxia Clinic, Co-Director of the Lewy Body Disease Association Research Center of Excellence, Clinical Core Co-Leader of the Stanford Alzheimer's Disease Research Center, and Director of the Behavioral Neurology Fellowship. Her clinical time is devoted to caring for patients with Alzheimer's disease and other neurodegenerative disorders and her research is devoted to finding treatments for these cognitive disorders. She also served on the California Governor's Alzheimer's Prevention and Preparedness Task Force Chaired by Maria Shriver in 2020. She has been featured in international media and documentaries such as the BBC "How to Stay Young" and the Docuseries "Limitless with Chris Hemsworth".

CLINICAL FOCUS

- Huntington Disease
- Ataxia
- Alzheimer Disease
- Frontotemporal Dementia
- Dementia
- Behavioral Neurology and Neuropsychiatry

ACADEMIC APPOINTMENTS

- Clinical Professor, Neurology & Neurological Sciences

ADMINISTRATIVE APPOINTMENTS

- Chief, Memory Disorders Division, (2023- present)
- Associate Vice Chair, Clinical Research, Department of Neurology, (2021- present)
- Medical Director, Stanford Neurosciences Clinical Trials Group, (2016- present)

- Director, Behavioral Neurology and Neuropsychiatry Fellowship, (2015- present)

PROFESSIONAL EDUCATION

- Medical Education: Georgetown University Internal Medicine Residency (2006) DC
- Internship, California pacific medical center , Internal medicine (2007)
- Residency: University of California Los Angeles (2008) CA
- Residency: Stanford University School of Medicine (2010) CA
- Fellowship: University of California at San Francisco School of Medicine (2013) CA
- Board Certification: Behavioral Neurology and Neuropsychiatry, United Council for Neurologic Subspecialties (2014)
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2010)

LINKS

- Research and Education: Stanford Center for Memory Disorders: <http://neurology.stanford.edu/memory/>
- Memory Disorders Clinical Trials: <http://med.stanford.edu/neurology/divisions/memory/clinicaltrials.html>
- Patient Care: Center for Memory Disorders: <https://stanfordhealthcare.org/medical-clinics/memory-disorders-center.html>
- WDSM Women's Health Forum: <https://www.youtube.com/watch?v=muuMmmq4RkI>
- Behavioral Neurology Fellowship Site: <https://med.stanford.edu/neurology/divisions/memory/education.html>
- Alzheimer's Disease Research Center: <http://med.stanford.edu/adrc.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- A 24-Month Study to Evaluate the Efficacy and Safety of Elenbecestat (E2609) in Participants With Early Alzheimer's Disease, Recruiting
- A Study of CAD106 and CNP520 Versus Placebo in Participants at Risk for the Onset of Clinical Symptoms of Alzheimer's Disease, Recruiting
- A Study of CNP520 Versus Placebo in Participants at Risk for the Onset of Clinical Symptoms of Alzheimer's Disease, Recruiting
- A Study of Semorinemab in Patients With Moderate Alzheimer's Disease, Recruiting
- A Study to Confirm Safety and Efficacy of Lecanemab in Participants With Early Alzheimer's Disease, Recruiting
- A Study to Evaluate the Efficacy and Safety of Semorinemab in Patients With Prodromal to Mild Alzheimer's Disease, Recruiting
- GAIN Trial: Phase 2/3 Study of COR388 in Subjects With Alzheimer's Disease, Recruiting
- Prazosin for Agitation in Alzheimer's Disease, Recruiting
- Tango for Alzheimer's Disease Patients' Caregivers, Recruiting
- 221AD302 Phase 3 Study of Aducanumab (BIIB037) in Early Alzheimer's Disease, Not Recruiting
- A Study of Crenezumab Versus Placebo to Evaluate the Efficacy and Safety in Participants With Prodromal to Mild Alzheimer's Disease (AD), Not Recruiting
- A Study of RO4602522 in Participants With Moderate Severity Alzheimer Disease on Background Alzheimer Disease Therapy, Not Recruiting
- Efficacy and Safety Trial of Verubecestat (MK-8931) in Participants With Prodromal Alzheimer's Disease (MK-8931-019), Not Recruiting
- Multiple Dose Study of Aducanumab (BIIB037) (Recombinant, Fully Human Anti-A# IgG1 mAb) in Participants With Prodromal or Mild Alzheimer's Disease, Not Recruiting
- Phase 2 Study of BIIB092 in Participants With Early Alzheimer's Disease, Not Recruiting
- The PLasma for Alzheimer SymptoM Amelioration (PLASMA) Study, Not Recruiting

Publications

PUBLICATIONS

- **The Cerebellar Cognitive Affective/Schmahmann Syndrome Scale in Spinocerebellar Ataxias.** *Cerebellum (London, England)*
Selvadurai, L. P., Perlman, S. L., Ashizawa, T., Wilmot, G. R., Onyike, C. U., Rosenthal, L. S., Shakkottai, V. G., Paulson, H. L., Subramony, S. H., Bushara, K. O., Kuo, S. H., Dietiker, C., Geschwind, et al
2024
- **Post-translational modifications linked to preclinical Alzheimer's disease-related pathological and cognitive changes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Abiose, O., Rutledge, J., Moran-Losada, P., Belloy, M. E., Wilson, E. N., He, Z., Trelle, A. N., Channappa, D., Romero, A., Park, J., Yutsis, M. V., Sha, S. J., Andreasson, et al
2023
- **The Sporadic Early-onset Alzheimer's Disease Signature Of Atrophy: Preliminary Findings From The Longitudinal Early-onset Alzheimer's Disease Study (LEADS) Cohort.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Touroutoglou, A., Katsumi, Y., Brickhouse, M., Zaitsev, A., Eckbo, R., Aisen, P., Beckett, L., Dage, J. L., Eloyan, A., Foroud, T., Ghetti, B., Griffin, P., Hammers, et al
2023
- **Pathogenic variants in the Longitudinal Early-onset Alzheimer's Disease Study cohort.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Nudelman, K. N., Jackson, T., Rumbaugh, M., Eloyan, A., Abreu, M., Dage, J. L., Snoddy, C., Faber, K. M., Foroud, T., Hammers, D. B., DIAN/DIAN-TU Clinical/Genetics Committee, Taurone, A., Thangarajah, M., et al
2023
- **Amyloid and tau-PET in early-onset AD: Baseline data from the Longitudinal Early-onset Alzheimer's Disease Study (LEADS).** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Cho, H., Mundada, N. S., Apostolova, L. G., Carrillo, M. C., Shankar, R., Amuiri, A. N., Zeltzer, E., Windon, C. C., Soleimani-Meigooni, D. N., Tanner, J. A., Heath, C. L., Lesman-Segev, O. H., Aisen, et al
2023
- **Influence of amyloid and diagnostic syndrome on non-traditional memory scores in early-onset Alzheimer's disease.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Bushnell, J., Hammers, D. B., Aisen, P., Dage, J. L., Eloyan, A., Foroud, T., Grinberg, L. T., Iaccarino, L., Jack, C. R., Kirby, K., Kramer, J., Koeppe, R., Kukull, et al
2023
- **Lewy Body Dementia: An Overview of Promising Therapeutics.** *Current neurology and neuroscience reports*
Skylar-Scott, I. A., Sha, S. J.
2023
- **Sex and APOE epsilon4 carrier effects on atrophy, amyloid PET, and tau PET burden in early-onset Alzheimer's disease.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Nemes, S., Logan, P. E., Manchella, M. K., Mundada, N. S., La Joie, R., Polzinelli, A. J., Hammers, D. B., Koeppe, R. A., Foroud, T. M., Nudelman, K. N., Eloyan, A., Iaccarino, L., Dorsant-Ardon, et al
2023
- **White matter hyperintensities are higher among early-onset Alzheimer's disease participants than their cognitively normal and early-onset nonAD peers: Longitudinal Early-onset Alzheimer's Disease Study (LEADS).** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Eloyan, A., Thangarajah, M., An, N., Borowski, B. J., Reddy, A. L., Aisen, P., Dage, J. L., Foroud, T., Ghetti, B., Griffin, P., Hammers, D., Iaccarino, L., Jack, et al
2023
- **Cerebrospinal fluid biomarkers in the Longitudinal Early-onset Alzheimer's Disease Study.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Dage, J. L., Eloyan, A., Thangarajah, M., Hammers, D. B., Fagan, A. M., Gray, J. D., Schindler, S. E., Snoddy, C., Nudelman, K. N., Faber, K. M., Foroud, T., Aisen, P., Griffin, et al
2023
- **Baseline neuropsychiatric symptoms and psychotropic medication use midway through data collection of the Longitudinal Early-Onset Alzheimer's Disease Study (LEADS) cohort.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*

- Polsinelli, A. J., Wonderlin, R. J., Hammers, D. B., Garcia, A. P., Eloyan, A., Taurone, A., Thangarajah, M., Beckett, L., Gao, S., Wang, S., Kirby, K., Logan, P. E., Aisen, et al
2023
- **Profiling baseline performance on the Longitudinal Early-Onset Alzheimer's Disease Study (LEADS) cohort near the midpoint of data collection.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Hammers, D. B., Eloyan, A., Taurone, A., Thangarajah, M., Beckett, L., Gao, S., Kirby, K., Aisen, P., Dage, J. L., Foroud, T., Griffin, P., Grinberg, L. T., Jack, et al
2023
 - **Learning slopes in early-onset Alzheimer's disease.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Hammers, D. B., Nemes, S., Diedrich, T., Eloyan, A., Kirby, K., Aisen, P., Kramer, J., Nudelman, K., Foroud, T., Rumbaugh, M., Atri, A., Day, G. S., Duara, et al
2023
 - **The MVP or the tombstone: is tau the correct target to treat Alzheimer's disease?** *Brain : a journal of neurology*
Younes, K., Sha, S. J.
2023
 - **Illusory Responses across the Lewy Body Disease Spectrum** *ANNALS OF NEUROLOGY*
Shahid, M., Rawls, A., Ramirez, V., Ryman, S., Santini, V. E., Yang, L., Sha, S. J., Hall, J. N., Montine, T. J., Lin, A., Tian, L., Henderson, V. W., Cholerton, et al
2023
 - **Prediction of neuropathologic lesions from clinical data.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Phongpreecha, T., Cholerton, B., Bhukari, S., Chang, A. L., De Francesco, D., Thuraiappah, M., Godrich, D., Perna, A., Becker, M. G., Ravindra, N. G., Espinosa, C., Kim, Y., Berson, et al
2023
 - **Research Priorities of Individuals and Caregivers With Lewy Body Dementia A Web-based Survey** *ALZHEIMER DISEASE & ASSOCIATED DISORDERS*
Holden, S. K., Bedenfield, N., Taylor, A. S., Bayram, E., Schwilk, C., Fleisher, J., Duda, J., Shill, H., Paulson, H. L., Stacy, K., Wood, J., Corsentino, P., Sha, et al
2023; 37 (1): 50-58
 - **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
 - **Illusory responses across the Lewy body disease spectrum**
Shahid, M., Rawls, A., Ramirez, V., Ryman, S., Santini, V., Yang, L., Sha, S., Hall, J., Montine, T., Lin, A., Tian, L., Henderson, V., Cholerton, et al
WILEY.2022: S364-S365
 - **Large Collaborative Registries and Real-world Data to Manage Amyloid-Related Imaging Abnormalities-Reply.** *JAMA neurology*
Hall, J. N., Sha, S. J.
2022
 - **Addition of Vision Impairment to a Life-Course Model of Potentially Modifiable Dementia Risk Factors in the US RESPONSE** *JAMA NEUROLOGY*
Hall, J. N., Sha, S. J.
2022; 79 (6): 623-626
 - **Six Recurrent Amyloid-Related Imaging Abnormality Episodes in a Patient Treated With Aducanumab.** *JAMA neurology*
Hall, J. N., Mormino, E., Ng, A., Boumis, A., Gaudioso, J. L., Davidzon, G. A., Sha, S. J.
2021
 - **Association of CSF Biomarkers with Hippocampal-dependent Memory in Preclinical Alzheimer Disease.** *Neurology*
Trelle, A. N., Carr, V. A., Wilson, E. N., Swarovski, M. S., Hunt, M. P., Toueg, T. N., Tran, T. T., Channappa, D. n., Corso, N. K., Thieu, M. K., Jayakumar, M. n., Nadiaiwala, A. n., Guo, et al
2021
 - **Fluid and Tissue Biomarkers of Lewy Body Dementia: Report of an LBDA Symposium.** *Frontiers in neurology*
Scott, G. D., Arnold, M. R., Beach, T. G., Gibbons, C. H., Kanthasamy, A. G., Lebovitz, R. M., Lemstra, A. W., Shaw, L. M., Teunissen, C. E., Zetterberg, H., Taylor, A. S., Graham, T. C., Boeve, et al
2021; 12: 805135

- **Visual Read Protocols for Clinicians Analyzing 18F-PI-2620 tau PET/MRI Images**

Koran, M., Shams, S., Adams, P., Toueg, T., Azevedo, C., Hall, J., Corso, N., Sha, S., Fredericks, C., Greicius, M., Wagner, A., Zaharchuk, G., Davidzon, et al
SOC NUCLEAR MEDICINE INC.2020

- **Hippocampal and cortical mechanisms at retrieval explain variability in episodic remembering in older adults.** *eLife*

Trelle, A. N., Carr, V. A., Guerin, S. A., Thieu, M. K., Jayakumar, M. n., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hunt, M. P., Litovsky, C. P., Tanner, N. J., Deutsch, G. K., Bernstein, et al
2020; 9

- **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

- **Lewy Body Dementia Association's Research Centers of Excellence Program: Inaugural Meeting Proceedings.** *Alzheimer's research & therapy*

Peterson, B., Armstrong, M., Galasko, D., Galvin, J. E., Goldman, J., Irwin, D., Paulson, H., Kaufer, D., Leverenz, J., Lunde, A., McKeith, I. G., Siderowf, A., Taylor, et al
2019; 11 (1): 23

- **Positive Attitudes and Therapeutic Misconception Around Hypothetical Clinical Trial Participation in the Huntington's Disease Community.** *Journal of Huntington's disease*

Cotter, K. n., Siskind, C. n., Sha, S. n., Hanson-Kahn, A. n.
2019

- **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

- **Safety, Tolerability, and Feasibility of Young Plasma Infusion in the Plasma for Alzheimer Symptom Amelioration Study: A Randomized Clinical Trial.** *JAMA neurology*

Sha, S. J., Deutsch, G. K., Tian, L. n., Richardson, K. n., Coburn, M. n., Gaudioso, J. L., Marcal, T. n., Solomon, E. n., Boumis, A. n., Bet, A. n., Mennes, M. n., van Oort, E. n., Beckmann, et al
2018

- **An 8-week, open-label, dose-finding study of nimodipine for the treatment of progranulin insufficiency from GRN gene mutations.** *Alzheimer's & dementia (New York, N. Y.)*

Sha, S. J., Miller, Z. A., Min, S., Zhou, Y., Brown, J., Mitic, L. L., Karydas, A., Koestler, M., Tsai, R., Corbetta-Rastelli, C., Lin, S., Hare, E., Fields, et al
2017; 3 (4): 507-12

- **Egocentric and allocentric visuospatial working memory in premotor Huntington's disease: A double dissociation with caudate and hippocampal volumes.** *Neuropsychologia*

Possin, K. L., Kim, H., Geschwind, M. D., Moskowitz, T., Johnson, E. T., Sha, S. J., Apple, A., Xu, D., Miller, B. L., Finkbeiner, S., Hess, C. P., Kramer, J. H.
2017; 101: 57-64

- **Early-onset Alzheimer's disease versus frontotemporal dementia: resolution with genetic diagnoses?** *Neurocase*

Sha, S. J., Khazenzon, A. M., Ghosh, P. M., Rankin, K. P., Pribadi, M., Coppola, G., Geschwind, D. H., Rabinovici, G. D., Miller, B. L., Lee, S. E.
2016; 22 (2): 161-167

- **Frontotemporal Dementia and Psychiatric Illness: Emerging Clinical and Biological Links in Gene Carriers** *AMERICAN JOURNAL OF GERIATRIC PSYCHIATRY*

Block, N. R., Sha, S. J., Karydas, A. M., Fong, J. C., De May, M. G., Miller, B. L., Rosen, H. J.
2016; 24 (2): 107-116

- **Predicting amyloid status in corticobasal syndrome using modified clinical criteria, magnetic resonance imaging and fluorodeoxyglucose positron emission tomography.** *Alzheimer's research & therapy*

Sha, S. J., Ghosh, P. M., Lee, S. E., Corbetta-Rastelli, C., Jagust, W. J., Kornak, J., Rankin, K. P., Grinberg, L. T., Vinters, H. V., Mendez, M. F., Dickson, D. W., Seeley, W. W., Gorno-Tempini, et al
2015; 7 (1): 8-?

- **Altered network connectivity in frontotemporal dementia with C9orf72 hexanucleotide repeat expansion** *BRAIN*

- Lee, S. E., Khazenzon, A. M., Trujillo, A. J., Guo, C. C., Yokoyama, J. S., Sha, S. J., Takada, L. T., Karydas, A. M., Block, N. R., Coppola, G., Pribadi, M., Geschwind, D. H., Rademakers, et al
2014; 137: 3047-3060
- **Quantitative 7T Phase Imaging in Premanifest Huntington Disease** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Apple, A. C., Possin, K. L., Satris, G., JOHNSON, E., Lupo, J. M., Jakary, A., Wong, K., Kelley, D. A., Kang, G. A., SHA, S. J., Kramer, J. H., Geschwind, M. D., Nelson, et al
2014; 35 (9): 1707-1713
 - **Executive Functions in Premanifest Huntington's Disease** *MOVEMENT DISORDERS*
You, S. C., Geschwind, M. D., Sha, S. J., Apple, A., Satris, G., Wood, K. A., Johnson, E. T., Gooblar, J., Feuerstein, J. S., Finkbeiner, S., Kang, G. A., Miller, B. L., Hess, et al
2014; 29 (3): 405-409
 - **Interrater reliability of the new criteria for behavioral variant frontotemporal dementia** *NEUROLOGY*
LaMarre, A. K., Rascovsky, K., Bostrom, A., Toofanian, P., Wilkins, S., Sha, S. J., Perry, D. C., Miller, Z. A., Naasan, G., Laforce, R. J., Hagen, J., Takada, L. T., Tartaglia, et al
2013; 80 (21): 1973-1977
 - **Frontotemporal dementia due to C9ORF72 mutations Clinical and imaging features** *NEUROLOGY*
Sha, S. J., Takada, L. T., Rankin, K. P., Yokoyama, J. S., Rutherford, N. J., Fong, J. C., Khan, B., Karydas, A., Baker, M. C., DeJesus-Hernandez, M., Pribadi, M., Coppola, G., Geschwind, et al
2012; 79 (10): 1002-1011
 - **Atypical, slowly progressive behavioural variant frontotemporal dementia associated with C9ORF72 hexanucleotide expansion** *JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY*
Khan, B. K., Yokoyama, J. S., Takada, L. T., Sha, S. J., Rutherford, N. J., Fong, J. C., Karydas, A. M., Wu, T., Ketelle, R. S., Baker, M. C., Hernandez, M., Coppola, G., Geschwind, et al
2012; 83 (4): 358-364
 - **Neuropsychiatric features of C9orf72-associated behavioral variant frontotemporal dementia and frontotemporal dementia with motor neuron disease** *ALZHEIMERS RESEARCH & THERAPY*
Takada, L. T., Sha, S. J.
2012; 4 (5)
 - **Treatment implications of C9ORF72** *ALZHEIMERS RESEARCH & THERAPY*
Sha, S. J., Boxer, A.
2012; 4 (6)
 - **Are frontotemporal lobar degeneration, progressive supranuclear palsy and corticobasal degeneration distinct diseases?** *NATURE CLINICAL PRACTICE NEUROLOGY*
Sha, r. S., Hou, C., Viskontas, I. V., Miller, B. L.
2006; 2 (12): 658-665
 - **Distinctive neuropsychological patterns in frontotemporal dementia, semantic dementia, and Alzheimer disease.** *Cognitive and behavioral neurology*
Kramer, J. H., Jurik, J., Sha, S. J., Rankin, K. P., Rosen, H. J., Johnson, J. K., Miller, B. L.
2003; 16 (4): 211-218