



THE CAROL AND GENE LUDWIG CENTER
FOR RESEARCH ON NEURODEGENERATION
IN THE DEPARTMENT OF NEUROLOGY

Ludwig Scholars Publications 2025

Elizabeth M. Bradshaw, PhD

Adler Assistant Professor of Neurological Sciences (in Neurology, the Taub
Institute, and the Institute for Genomic Medicine)

Microglial Activation Alters Chromatin Accessibility of AD-Associated Transcription Factors.

Zena K Chatila, Jason Mares, Badri N. Vardarajan, Wassim Elyaman, Vilas Menon, **Elizabeth M Bradshaw**. First published: 03 January 2025 <https://doi.org/10.1002/alz.085990>

CD33 competitive inhibitor peptide IMAD-001 modulates innate immunity in Alzheimer's disease.

Jennifer L Green, Dallin Dressman, Mamun Rashid, Ryan Hobson, Wassim Elyaman, **Elizabeth M Bradshaw** First published: 09 January 2025 <https://doi.org/10.1002/alz.089331>

HSV1 infection elicits distinct immune responses in microglia and macrophages.

Chitra Mohinder Singh Singal, **Elizabeth M Bradshaw**, Wassim Elyaman. *Alzheimers Dementia*. 2025 Jan 3;20(Suppl 1):e092417. doi: [10.1002/alz.092417](https://doi.org/10.1002/alz.092417)

Exploring the role of T cells in Alzheimer's and other neurodegenerative diseases: Emerging therapeutic insights from the T Cells in the Brain symposium.

Wassim Elyaman, Lawrence J. Stern, Ning Jiang, Dallin Dressman, Philip Bradley, David Klatzmann, **Elizabeth M. Bradshaw**, Donna L. Farber, Sally C. Kent, Shahab Chizari, Kristen Funk, Davangere Devanand, Kiran T. Thakur, Towfique Raj, Osama Al Dalahmah, Rani A. Sarkis, Howard L. Weiner, Neil A. Shneider, Serge Przedborski. First published: 27 January 2025

<https://doi.org/10.1002/alz.14548>

CD33 and clusterin interact biophysically and genetically to modulate Alzheimer risk.

Dodd RB, Enomoto M, Zhou Y, Satoh K, Zhang Y, Chen F, Acheson B, Ghaffari D, Sayn-Wittgenstein E, Manning JJ, Dukas GV, Patel R, Burguete AS, Kralovec MJ, Rashid M, Hall JL, Tamucci KA, Chatila ZK, Liu M, Lee AJ, Vardarajan BN, Taga MF, Pollari S, Rabinovitch A, Rillahan CD, Bobkov AA, Sergienko E, Meadows W, Qamar S, Randle SJ, Johnson CM, Sevalle J, Griffin J, Bohm C, Ikura M, Xian X, Herz J, Kelly MA, West J, Satapathy S, Wilson MR, Javitch JA, Fraser PE, Bennett DA, De Jager PL, Fishelson Z, Frenkel D, Asher WB, **Bradshaw EM**, St George-Hyslop P 2025 Jul 31:2025.07.29.667318. doi: 10.1101/2025.07.29.667318. PMID: 40766450; PMCID: PMC12324352.

CD33-CD45 Interaction Reveals a Mechanistic Link to Alzheimer's Disease Susceptibility.

Vo N, Rillahan CD, Chatila ZK, Virga DM, Hall JL, Tamucci KA, Rashid M, Connor SM, Chintamen S, Guzman G, Taga M, Liu M, De Jager PL, St George-Hyslop P, Lee AJ, Vardarajan BN, Bennett DA, Kohler JJ, Schenone M, Elyaman W, Carr SA, **Bradshaw EM**. 2025 Jul 31:2025.07.28.667311. doi: 10.1101/2025.07.28.667311. PMID: 40766398; PMCID: PMC12324283.

[Loss of Nuclear TDP-43 Impairs Lipid Metabolism in Microglia-Like Cells.](#) Kabra K, Dressman D, Talcoff R, Yidenk M, Rifai OM, Hoover BN, Shneider NA, Elyaman W, Area-Gomez E, **Bradshaw EM** 2025 Sep 17;2025.09.17.676815. doi: 10.1101/2025.09.17.676815. PMID: 41000837; PMCID: PMC12458125.

[P2RX7 modulates the function of human microglia-like cells and mediates the association of IL18 with Alzheimer's disease traits.](#) Heavener KS, Tamucci KA, Lee AJ, Kabra K, Chatila ZK, Yidenk M, Bennett DA, Vardarajan BN, **Bradshaw EM**. Neurobiol Dis. 2025 Nov;216:107106. doi: 10.1016/j.nbd.2025.107106. Epub 2025 Sep 21. PMID: 40987420; PMCID: PMC12599179.

[Alzheimer's Disease Risk Variants Interact with Amyloid-beta to Modulate Monocyte Function.](#) Chatila ZK, **Bradshaw EM**. Cells. 2025 Dec 15;14(24):1990. doi: 10.3390/cells14241990. PMID: 41279508; PMCID: PMC12637674.