Stanford



Brenna Cholerton

Sr Research Scientist-Basic Life, Pathology - Montine Lab

Bio

ACADEMIC APPOINTMENTS

- Sr Research Scientist-Basic Life, Pathology - Montine Lab

PROFESSIONAL EDUCATION

- BA/BS, University of California, Davis , Psychology/Human Development (1993)
- MA, California School of Professional Psychology , Clinical Psychology (1996)
- Internship, Veterans Affairs Puget Sound Health Care System , Neuropsychology, Clinical Psychology (1999)
- PhD, California School of Professional Psychology , Clinical Psychology (2000)
- Postdoctoral Fellowship, University of Washington/ NIH/NIA T32 Fellowship , Neurobehavior, Neuroendocrinology, and Genetics of Alzheimer's Disease (2004)

Publications

PUBLICATIONS

- **Epigenomic profile of GBA1 in Parkinson's disease.** *Parkinsonism & related disorders*
  Berson, E., Zaghroun, R., Santoro, M., Bukhari, S., Seong, D., Shu, C. H., Perna, A., James, T., Montine, K. S., Serrano, G. E., Beach, T. G., Keene, C. D., Chang, et al
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- **Neuropsychiatric symptom subtypes and dementia-associated neuropathologic change.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
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- **Attention/Working Memory and Executive Function in Parkinson's Disease: Review, Critique, and Recommendations.** *Movement disorders : official journal of the Movement Disorder Society*
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- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *NPJ Parkinson's disease*
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  Bezdicek, O., Biundo, R., Boelema, S., Cammisuli, D. M., Cholerton, B., Cronin-Golomb, A., Dalrymple-Alford, J. C., Duits, A., Fellows, R., Gerstenecker, A., El Hachioui, H., Horáková, H., Koerts, et al

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- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Smith, A., Plastini, M. J., Ashton, N. J., Montoliu-Gaya, L., Wilson, E. N., Arslan, B., Young, C. B., Winer, J. R., Shahid, M., Vossler, H., Kerchner, G. A., Cholerton, B., Andreasson, et al
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- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *Research square*
  Wilson, E., Umans, J., Swarovski, M., Minhas, P., Midttun, Ø., Ulvik, A. A., Shahid-Besanti, M., Linortner, P., Mhatre, S., Wang, Q., Channappa, D., Corso, N., Tian, et al
  2024

- **Single-cell peripheral immunoprofiling of lewy body and Parkinson's disease in a multi-site cohort.** *Molecular neurodegeneration*
  Phongpreecha, T., Mathi, K., Cholerton, B., Fox, E. J., Sigal, N., Espinosa, C., Reincke, M., Chung, P., Hwang, L. J., Gajera, C. R., Berson, E., Perna, A., Xie, et al
  2024; 19 (1): 59

- **The Parkinson's Disease Composite of Executive Functioning: A Measure for Detecting Cognitive Decline in Clinical Trials.** *Neurology*
  Young, C. B., Cholerton, B., Smith, A. M., Shahid-Besanti, M., Abdelnour, C., Mormino, E. C., Hu, S. C., Chung, K. A., Peterson, A., Rosenthal, L., Pantelyat, A., Dawson, T. M., Quinn, et al
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  Abdelnour, C., Young, C. B., Shahid-Besanti, M., Smith, A., Wilson, E. N., Ramos Benitez, J., Vossler, H., Plastini, M. J., Winer, J. R., Kerchner, G. A., Cholerton, B., Andreasson, K. I., Henderson, et al
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- **Neuropathologic Burden and Dementia in Nonagenarians and Centenarians.** *Neurology*
  Cholerton, B., Latimer, C. S., Crane, P. K., Corrada, M. M., Gibbons, L. E., Larson, E. B., Kawas, C. H., Keene, C. D., Montine, T. J.
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  Sudhakar, T. D., Levendovszky, S. R., Zabetian, C. P., Tsuang, D. W., Pillai, J. A., Rao, S. M., Oguh, O., Lippa, C., Lopez, O. L., Berman, S., Irwin, D. J., Galasko, D. R., Litvan, et al
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- **Quantitative estimate of cognitive resilience and its medical and genetic associations.** *Alzheimer's research & therapy*
  Phongpreecha, T., Godrich, D., Berson, E., Espinosa, C., Kim, Y., Cholerton, B., Chang, A. L., Mataraso, S., Bukhari, S. A., Perna, A., Yakabi, K., Montine, K. S., Poston, et al
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- **Paradigm Shift: Multiple Potential Pathways to Neurodegenerative Dementia.** *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*
  Perna, A., Montine, K. S., White, L. R., Montine, T. J., Cholerton, B. A.
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- **Paradigm Shift: Multiple Potential Pathways to Neurodegenerative Dementia** *NEUROTHERAPEUTICS*
  Perna, A., Montine, K. S., White, L. R., Montine, T. J., Cholerton, B. A.
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- **Neuropathologic Changes of Alzheimer's Disease and Related Dementias: Relevance to Future Prevention.** *Journal of Alzheimer's disease : JAD*
  White, L. R., Corrada, M. M., Kawas, C. H., Cholerton, B. A., Edland, S. E., Flanagan, M. E., Montine, T. J.
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- **Associations between baseline cognitive status and motor outcomes after treadmill training in people with Parkinson's disease: a pilot study.** *Disability and rehabilitation*
  Amin, R. M., Phillips, J. J., Humbert, A. T., Cholerton, B. A., Short, V. D., Smith, M. J., Zabetian, C. P., Mata, I. F., Kelly, V. E.
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- **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
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- **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
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- **Gait and balance in apolipoprotein Ɛ4 allele carriers in older adults and Parkinson's disease.** *Clinical parkinsonism & related disorders*
  Morris, R., Martini, D. N., Kelly, V. E., Smulders, K., Ramsey, K., Hiller, A., Chung, K. A., Hu, S., Zabetian, C. P., Poston, K. L., Mata, I. F., Edwards, K. L., Lapidus, et al
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- **Illusory responses across the Lewy body disease spectrum**
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- **Association of Cognition and Dementia With Neuropathologic Changes of Alzheimer Disease and Other Conditions in the Oldest-Old.** *Neurology*
  Montine, T. J., Corrada, M. M., Kawas, C., Bukhari, S., White, L., Tian, L., Cholerton, B.
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- **Associations between Baseline Cognitive Function and Gait Outcomes after Treadmill Training in Parkinson disease**
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  Martini, D. N., Morris, R., Madhyastha, T. M., Grabowski, T. J., Oakley, J., Hu, S., Zabetian, C. P., Edwards, K. L., Hiller, A., Chung, K., Ramsey, K., Lapidus, J. A., Cholerton, et al
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- **White Matter Hyperintensities Related to Parkinson's Disease Executive Function.** *Movement disorders clinical practice*
  Linortner, P., McDaniel, C., Shahid, M., Levine, T. F., Tian, L., Cholerton, B., Poston, K. L.
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- **Hallucinations and Development of Dementia in Parkinson's Disease.** *Journal of Parkinson's disease*
  Gryc, W., Roberts, K. A., Zabetian, C. P., Weintraub, D., Trojanowski, J. Q., Quinn, J. F., Hiller, A. L., Chung, K. A., Poston, K. L., Yang, L., Hu, S., Edwards, K. L., Montine, et al
  2020

- **White Matter Hyperintensities Related to Parkinson's Disease Executive Function** *MOVEMENT DISORDERS CLINICAL PRACTICE*
  Linortner, P., McDaniel, C., Shahid, M., Levine, T. F., Tian, L., Cholerton, B., Poston, K. L.
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- **APOE epsilon 4-related differences in visuospatial impairment in female Parkinson's Disease patients**
  Rawls, A., Yang, L., Chung, K., Hiller, A., Espay, A., Revilla, F., Devoto, J., Goldman, J., Stebbins, G., Bernard, B., Wszolek, Z., Ross, O., Dickson, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

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  Wilson, E. N., Swarovski, M. S., Linortner, P. n., Shahid, M. n., Zuckerman, A. J., Wang, Q. n., Channappa, D. n., Minhas, P. S., Mhatre, S. D., Plowey, E. D., Quinn, J. F., Zabetian, C. P., Tian, et al
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- **White Matter Lesions in Mild Cognitive Impairment and Idiopathic Parkinson's Disease: Multimodal Advanced MRI and Cognitive Associations.** *Journal of neuroimaging : official journal of the American Society of Neuroimaging*
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- **Resting-State Cerebello-Cortical Dysfunction in Parkinson's Disease.** *Frontiers in neurology*
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- **Arterial spin labeling detects perfusion patterns related to motor symptoms in Parkinson's disease.** *Parkinsonism & related disorders*
  Rane, S. n., Koh, N. n., Oakley, J. n., Caso, C. n., Zabetian, C. P., Cholerton, B. n., Montine, T. J., Grabowski, T. n.
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- **Cognitive Correlates of MRI-defined Cerebral Vascular Injury and Atrophy in Elderly American Indians: The Strong Heart Study.** *Journal of the International Neuropsychological Society : JINS*
  Suchy-Dicey, A., Shibata, D., Cholerton, B., Nelson, L., Calhoun, D., Ali, T., Montine, T. J., Longstreth, W. T., Buchwald, D., Verney, S. P.
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  Verney, S. P., Suchy-Dicey, A. M., Cholerton, B., Calhoun, D., Nelson, L., Montine, T. J., Ali, T., Longstreth, W. T., Buchwald, D.
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- **Type 2 diabetes and later cognitive function in older American Indians: The Strong Heart Study** *INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY*
  Cholerton, B., Omidpanah, A., Verney, S. P., Nelson, L. A., Baker, L. D., Suchy-Dicey, A., Longstreth, W. T., Howard, B. V., Henderson, J. A., Montine, T. J., Buchwald, D.
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- **An increased rate of longitudinal cognitive decline is observed in Parkinson's disease patients with low CSF A beta 42 and an APOE epsilon 4 allele** *NEUROBIOLOGY OF DISEASE*
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- **Type 2 diabetes and later cognitive function in older American Indians: The Strong Heart Study.** *International journal of geriatric psychiatry*

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- **Cognitive Performance in Parkinson's Disease in the Brain Health Registry.** *Journal of Alzheimer's disease : JAD*
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- **Using Varying Diagnostic Criteria to Examine Mild Cognitive Impairment Prevalence and Predict Dementia Incidence in a Community-Based Sample.** *Journal of Alzheimer's disease : JAD*
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  Shahid, M., Kim, J., Leaver, K., Hendershott, T., Zhu, D., Cholerton, B., Henderson, V. W., Tian, L., Poston, K. L.
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- **Comparative sensitivity of the MoCA and Mattis Dementia Rating Scale-2 in Parkinson's disease.** *Movement disorders : official journal of the Movement Disorder Society*
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- **Cognitive Performance in Parkinson's Disease in the Brain Health Registry** *JOURNAL OF ALZHEIMERS DISEASE*
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  Specketer, K. n., Zabetian, C. P., Edwards, K. L., Tian, L. n., Quinn, J. F., Peterson-Hiller, A. L., Chung, K. A., Hu, S. C., Montine, T. J., Cholerton, B. A.
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- **Associations of APOE in the Honolulu Asia Aging Study**
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