

**Daniel A. Nation, Ph.D.**

CURRICULUM VITAE

Visiting Professor, Leonard Davis School of Gerontology  
University of Southern California  
3715 McClintock Avenue  
Los Angeles, CA 90089  
[danation@usc.edu](mailto:danation@usc.edu)

**POSITIONS & HONORS**

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**Visiting Professor of Gerontology, Physiology and Neuroscience  
University of Southern California**

August 2023 – present      Leonard Davis School of Gerontology & the Zilkha Neurogenetic  
Institute, Keck School of Medicine

**Full Professor, University of California Irvine, Department of Psychological Science**

April 2023 – August 2023      School of Social Ecology

**Associate Professor, University of California Irvine, Department of Psychological Science**

July 2019 – August 2023      School of Social Ecology

**Associate Professor, Institute for Memory Impairments & Neurological Disorders**

July 2019 – August 2023      University of California Irvine, School of Biological Science

**Adjunct Professor, University of Southern California, Department of Psychology**

Dec. 2016 – August 2023      Dornsife College of Arts & Letters

**Adjunct Professor, Department of Physiology & Neuroscience, University of Southern California**

Dec. 2016 – August 2023      Keck School of Medicine

**Associate Professor, Neuroscience Graduate Program, University of Southern California**

Feb. 2019 – July 2019      Keck School of Medicine

**Associate Professor, University of Southern California, Department of Psychology**

Feb. 2019 – July 2019      Dornsife College of Arts & Letters

**Assistant Professor, University of Southern California, Department of Psychology**

Aug. 2013 – Feb. 2019      Dornsife College of Arts & Letters

**Post-Doctoral Fellowship, VA San Diego Healthcare System, Department of Psychology**

Sept. 2011 – Aug. 2013      Division of Neuropsychology, Neuropsychology of Aging

**Post-Doctoral Fellowship, University of California San Diego, Department of Psychiatry**

July 2009 – Sept. 2011      Biological Psychiatry and Neuroscience (NIH-Funded T32)

## **HIGHER EDUCATION**

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**Post-Doctoral Fellowship**  
Sept. 2011 – Aug. 2013

**VA San Diego Healthcare System**  
Department of Psychology, Division of Neuropsychology  
Neuropsychology of Aging  
Advisors: Mark W. Bondi, Ph.D. & Amy Jak, Ph.D.

**Post-Doctoral Fellowship**  
July 2009 – Sept. 2011

**University of California San Diego**  
School of Medicine, Department of Psychiatry  
Biological Psychiatry and Neuroscience (NIH-Funded T32)  
Advisor: Mark W. Bondi, Ph.D.  
Research: *Vascular contribution to cognitive decline and Alzheimer's disease*

**Pre-Doctoral Internship**  
June 2009

**University of California San Diego**  
VA Medical Center, San Diego, CA  
Specialization: Clinical Neuropsychology  
Major Rotations: 1) Neuropsychology  
2) Post-traumatic Stress Disorder  
Minor Rotations: Cognitive Rehabilitation in Traumatic Brain Injury  
Primary Advisor: Mark W. Bondi, Ph.D.  
Secondary Advisor: Amy J. Jak, Ph.D.

**Ph.D. Clinical Psychology**  
July 2009

**University of Miami**, Coral Gables, FL  
Major: Clinical Health Psychology  
Further Specialization: Neuropsychology & Behavioral Neuroscience  
Dissertation Title: *The oxytocinergic anti-inflammatory pathway in atherosclerosis*  
Primary Advisor: Philip M. McCabe, Ph.D.  
Secondary Advisor: Neil Schneiderman, Ph.D.

**Master of Science**  
August 2006

**University of Miami**, Coral Gables, FL  
Major: Psychology  
Specialization: Behavioral Medicine  
Thesis Title: *The effect of social environment on inflammation, oxidative stress, AT<sub>1</sub>-receptor binding, and atherosclerosis in the Watanabe Heritable Hyperlipidemic rabbit*

**Bachelor of Arts**  
August 2001

**University of California at Santa Cruz**, Santa Cruz, CA  
Majors: Psychology & Philosophy

**GRANTS**

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*ONGOING EXTRAMURAL SUPPORT*

R01AG064228 Nation (PI) 9/1/2019 - 7/31/2024  
 NIH/NIA Total Direct Costs: \$3,219,807

**Endothelial Progenitor Cells and Neurovascular Injury in the Aging Brain**

This project is focused on furthering our understanding of potentially protective cellular factors in age-related neurovascular dysfunction and cognitive decline. The project entails studies of endothelial progenitor cells cultured from peripheral blood as longitudinal predictors of brain vascular lesions, blood flow, functional connectivity and cognitive decline. As PI, my role is in the study design, implementation, data analysis and manuscript preparation.

Role: Principal Investigator

R01AG060049 Nation (PI) 8/1/2019 - 7/31/2024  
 NIH/NIA Total Costs: \$2,914,722

**Cerebrovascular Resistance in Cognitive Aging and Alzheimer's Disease Risk**

This project is focused on furthering our understanding of cerebrovascular resistance as a novel vascular risk factor for cognitive decline and Alzheimer's dementia. The project entails investigation of a novel MRI-based marker of cerebrovascular resistance in relation to cognitive functioning and brain atrophy in a sample of community dwelling older adults. As PI, my role is in the study design, implementation, data analysis and manuscript preparation.

Role: Principal Investigator

R01AG082073 Nation (contact PI), Mather (MPI), Bondi (MPI) 4/01/2023 – 3/31/28

**Locus Coeruleus Imaging Markers in Preclinical Alzheimer's disease, Cerebrovascular Disease and Cognitive Decline**

Total Costs (All Sites): \$7,901,235

The goal of this research proposal is to further develop and validate brain MRI markers of locus coeruleus integrity and their relationship with preclinical Alzheimer's disease, cerebrovascular disease and cognitive decline.

Role: Principal Investigator

P01AG052350 / Project 1 Zlokovic/Nation (Leader/Co-Leader) 9/01/2021 – 8/31/2026  
 NIH/NIA Total Costs: \$1,232,658 (subaward)

**Biomarkers of Neurovascular Function and Genetic Risk Factors for Alzheimer's Disease**

The aims of the study entail investigation of biofluid and MRI-based markers of neurovascular unit function in those at genetic risk for Alzheimer's disease due to apolipoprotein E4 (APOE-ε4) or presenilin-1 mutation carrier status. As Co-leader of Project 1, I will lead the human clinical studies investigating biomarkers of blood-brain barrier breakdown, brain capillary mural cell damage and cerebral perfusion abnormalities as factors contributing to neuropsychological decline in carriers of the APOE-ε4 allele and PSEN1 mutations. These vascular factors are studied within the context of traditional Alzheimer's disease biomarkers of amyloid and phosphorylated tau to improve our understanding of how microvascular pathologies relate to classic Alzheimer's pathophysiology. This is the first scientific project of a larger program project grant, entitled, Vascular Contributions to Dementia and Genetic Risk Factors for Alzheimer's Disease (Zlokovic/Toga PIs). The entire program entails both animal and human projects, and includes four different active sites (Mayo Clinic, Banner Alzheimer's Institute Arizona, Washington University ADRC, and USC ADRC).

Role: Co-Leader

R44AG078044 Southern (PI) 8/15/2022 – 7/31/2025  
 NIH/NIA Total Costs (UC Irvine Site): \$532,999

**Rapid saliva test for noninvasive diagnostic screening of MCI and dementia**

The goal of this SBIR award is to validate the predictive value of salivary AD biomarkers in a sample of cognitively normal, mild cognitive impairment and AD dementia patients.

Role: Site-PI UC Irvine

*COMPLETED EXTRAMURAL SUPPORT*

R21AG055034	Nation (PI)	7/1/17-6/30/19
NIH/NIA	Total Direct Costs:	\$275,000

**Vascular Reserve and Protective Mechanisms in Aging and Alzheimer's Dementia Risk**

This study focused on the role of circulating progenitor cells and renin-angiotensin system peptide metabolites in protecting against cognitive impairment in older adults. The aims of the study were to investigate blood-based markers of circulating progenitor cell levels and renin-angiotensin system peptides, both of which are hypothesized to be protective factors, in relation to cognition and brain volume in older adults. We also examined how these blood markers correlate with memory, brain volume, white matter lesion volume and regional cerebral blood flow in all participants. My role as PI was to direct the design and execution of the program of research. I supervised all aspects of the study from data collection to manuscript preparation.

Role: Principal Investigator

AARG-17-532905	Nation (PI)	11/1/2017 - 10/31/2020
Alzheimer's Association	Total Direct Costs:	\$149,423

**Protective Vascular Factors in Mild Cognitive Impairment**

This proposal entails study of potentially protective cellular mechanisms in older adults at risk for Alzheimer's disease due to the presence of AD biomarker abnormalities and mild cognitive impairment. Participants undergo lumbar puncture for AD biomarker characterization, neuropsychological evaluation for diagnosis of mild cognitive impairment, and blood-based markers of hematopoietic stem cell level and function are evaluated using flow cytometry. Cellular factors will be studied in relation to AD biomarkers, mild cognitive impairment diagnosis, memory dysfunction, brain atrophy and cerebral amyloidosis.

Role: Principal Investigator

P01AG005142 / Project 1	Zlokovic/Nation (Leader/Co-Leader)	4/01/2015 – 3/31/2020
NIH/NIA	Total Direct Costs:	\$7,104,945

**Neurovascular Factors and AD**

This project focuses on the role of blood-brain barrier integrity and cerebral blood flow in cognitive and brain structural changes in those with varying degrees of cardiovascular risk factors. As Co-Leader of Project 1, I am leading the investigation into the contributions of blood-brain barrier breakdown and cerebral perfusion abnormalities to neuropsychological decline in older adults with cardiovascular risk factors. This is the first scientific project of our Alzheimer's Disease Research Center grant (Chui PI).

Role: Co-Leader

AA008369-00001 Zlokovic/Toga (Co-PIs).	6/01/2017 – 5/31/2020
Alzheimer's Association	

**Vascular Contributions to Dementia and Amyloid**

This award is intended to supplement the program project (P01AG052350) investigating vascular contributions to Alzheimer's disease by providing additional funding for amyloid and tau positron emission tomography (PET) studies. The study aims to investigate anatomical and temporal correspondence between blood-brain barrier breakdown and cerebral amyloidosis and tau-mediated neurodegeneration in older adults at genetic risk for Alzheimer's disease. As a Co-Investigator on this

award and Co-Leader of the PPG Project 1, my responsibilities primarily lie in study design, hypothesis testing and statistical analyses, as well as evaluation of neuropsychological outcomes.

Role: Co-Investigator

R01AG057184 Mather (PI) 4/15/2017- 3/31/2022  
NIH/NIA Total Direct Costs: \$111,785 (subaward)

### **Why Does Heart Rate Variability Matter for Emotion Regulation?**

The goal of this project is to test how dynamic oscillations in heart rate affect regulatory brain function. My role on this project is the design and analysis of cerebral blood flow experiments and neuropsychological outcomes of the study.

Role: Co-Investigator

## **MENTORED / SPONSORED GRANTS**

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### **Ongoing Funding**

*Primary Mentor* American Heart Association (AHA) Graduate Fellowship Award  
2023-2025 Arunima Kapoor  
UC Irvine Department of Psychological Science

*Primary Mentor* Canadian Institutes of Health Research (CIHR) 2019-2023 Doctoral  
2020-2023 Foreign Study Award (DFSAs), Arunima Kapoor  
UC Irvine Department of Psychological Science

### **Prior Funding**

*Primary Mentor* National Science Foundation (NSF) Predoctoral Fellowship, Shubir Dutt  
2018-2021 USC Department of Psychology

*Co-Mentor* NSF Predoctoral Fellowship Award, Kelly Durbin  
2017-2019 USC Department of Psychology

*Co-Mentor* NIH K-Award, Lirong Yan  
2017-2021 USC Institute for Neuroimaging and Informatics

## **PUBLICATIONS**

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Senior authored papers **asterisked\***

Student/trainee authors underlined

### *PEER REVIEWED JOURNAL ARTICLES*

106. Sible, I.J., Yoo, H.J., Min, J., Nashiro, N., Chang, C., **Nation, D.A.** Mather, M. (in press). Short-term blood pressure variability and regional amplitude of low frequency fluctuations in older and younger adults. *Aging Brain*.

105. Nashiro, Y., Min, J., Cho, C., Mercer, N., Bachman, S., Nasser, P., Dutt, S., Porat, S., Choi, P., Zhang, Y., Grigoryan, V., Feng, T., Thayer, J., Lehrer, P., Chang, C., Stanley, J., Marmarelis, V.,

Narayanan, S., **Nation, D.A.**, Wisnowski, J., Mather, M. (2023). Multimodal neuroimaging data from a 5-week heart rate variability biofeedback randomized clinical trial.

104. Edwards, L., Thomas, K.R., Weigand, A.J., Edmonds, E.C., Clark, A.L., Walker, K., Brenner, E.K., **Nation, D.A.**, Bondi, M.W., Bangen, K.J. for the Alzheimer's Disease Neuroimaging Initiative. (2023). White matter hyperintensity volume and amyloid-PET synergistically impact executive dysfunction and memory independent of tau-PET in older adults without dementia. *Journal of Alzheimer's Disease*.

103. Kapoor, A., Jang, J., Dutt, S., Yew, B., Li, Y., Alitin, J.P., Gaubert, A., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Xingfeng Shao, Wang, D.J.J., **Nation, D.A.\*** (2023). Enlarged perivascular spaces and plasma amyloid beta in older adults. *Neurobiology of Aging*.

102. Sible I.J., Nation D.A. (2023). Blood pressure variability and cerebral perfusion decline: A post-hoc analysis of the SPRINT MIND trial. *Journal of the American Heart Association*.

101. Marshall, A.J., Gaubert, A., Kapoor, A., Tan, A., McIntosh, E., Jang, J.Y., Yew, B., Ho, J.K., Blanken, A.E., Dutt, S., Sible, I.J., Li, Y., Rodgers, K., Nation, D.A.\* (2023). Blood-derived progenitor cells are depleted in older adults with cognitive impairment: a role for vascular resilience? *Journal of Alzheimer's Disease*.

100. Sible, I., Nation, D.A.\* (2023). Visit-to-visit blood pressure variability and cognitive decline in apolipoprotein  $\epsilon 4$  carriers. *Journal of Alzheimer's Disease*.

99. Wan, J., Cole, S., **Nation, D.A.**, Mather, M. (2023). Modulating heart rate oscillation affects plasma amyloid beta, tau and phosphorylated tau levels in younger and older adults. *Scientific Reports*.

98. Martinez, A.E., Weissberger, G., Kuklenyik, Z., He, X., Meuret, C., Parekh, T., Rees, J.C., Parks, B.A., Gardner, M.S., King, S.M., Collier, T.S., Harrington, M.G., Sweeney, M.D., Wang, X., Zlokovic, B.V., Joe, E., **Nation, D.A.**, Schneider, L.S., Chui, H.C., Barr, J.R., Han, S.D., Krauss, R.M., Yassine, H.N. (2023). The small HDL particle hypothesis of Alzheimer's disease. *Alzheimer's & Dementia*. 2023;19(2):391-404.

97. Sible, I.J., Jang, J., Dutt, S., Yew, B., Li, Y., Shao, X., Wang, D.J., Nation, D.A.\* (2023). Older adults with higher blood pressure variability exhibit cerebrovascular reactivity deficits. *American Journal of Hypertension*. 36(1):63-68.

96. Nashiro, K., Min, J., Yoo, H.J., Cho, C., Bachman, S., Dutt, S., Thayer, J.F., Lehrer, P., Feng, T., Mercer, N., Nasser, P., Wang, D., Chang, C., Marmarelis, V., Narayanan, S., **Nation, D.A.**, Mather, M.. (2023). Increasing coordination and responsivity of emotion-related brain regions with heart rate variability biofeedback randomized controlled trial. *Cognitive Affective and Behavioral Neuroscience*.

95. Kapoor, A., Jang, J., Dutt, S., Yew, B., Li, Y., Alitin, J.P., Gaubert, A., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Xingfeng Shao, Wang, D.J.J., Nation, D.A.\* (2022). Older adults with enlarged perivascular spaces exhibit cerebrovascular reactivity deficits. *NeuroImage*. 264:119746.

94. Sible, I.J., Nation, D.A.\* (2022). Visit-to-visit blood pressure variability and cognition: A post hoc analysis of the SPRINT MIND trial. *American Journal of Hypertension*. 36(3):168-175.

93. Sible, I.J., Kapoor, A., Jang, J.Y., Dutt, S., Li, Y., Gaubert, A., Ho, J.K., Marshall, A., Shao, X., Wang, D.J.J., Nation, D.A.\* (2022). Blood pressure variability and plasma Alzheimer's disease markers in older adults. *Scientific Reports*. 12(1):17197.

92. Ho, J., Nation, D.A.\* (2022). Neuropsychological decline stratifies dementia risk in cognitively unimpaired and impaired older adults. *Frontiers in Aging Neuroscience*. 14:838459.
91. Weigand, A.J., Macomber, A.J., Walker, K.S., Edwards, L., Thomas, K.R., Bangen, K.J., **Nation, D.A.**, & Bondi, M.W. (2022). Interactive effects of pulse pressure and tau imaging on longitudinal cognition. *Journal of Alzheimer's Disease*. 89(2):633-640.
90. Sible, I.J., Yew, B., Dutt, S., Li, Y., Blanken, A., Shao, X., Wang, D.J., Nation, D.A.\* (2022). Selective vulnerability of medial temporal regions to blood pressure variability and cerebral hypoperfusion in older adults. *Neuroimage: Reports*. 2(1):100080.
89. Kapoor, A., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative. (2022). Elevated Platelet-derived growth factor-BB is associated with white matter hyperintensity burden in APOE4 carriers. *Cerebral Circulation - Cognition & Behavior*. 3:100131.
88. Sible, I.J., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative (2022). Visit-to-visit blood pressure variability and CSF Alzheimer's disease biomarkers in older adults. *Neurology*. 98(24): e2446–e2453.
87. Sible, I., Jang, J., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative. (2022). Visit-to-visit blood pressure variability and subthreshold depressive symptoms in older adults. *American Journal of Geriatric Psychiatry*. 30(10):1110-1119.
86. Yew, B., Jang, J.Y., Dutt, S., Li, Y., Sible, I.J., Gaubert, A., Ho, J.K., Blanken, A.E., Marshall, A., Shao, X., Wang, D.J.J., Nation, D.A.\* (2022). Cerebrovascular reactivity deficits in cognitively unimpaired older adults: vasodilatory versus vasoconstrictive responses. *Neurobiology of Aging*. 113:55-62.
85. Montagne, A., Barnes, S.R., **Nation, D.A.**, Kisler, K., Toga, A.W., Zlokovic, B.V. (2022). Imaging subtle leaks in the blood-brain barrier in the aging human brain: potential pitfalls, challenges, and possible solutions. *Geroscience*. 44(3):1339-1351.
84. Martinez, A.E., Weissberger, G., He, X., Parekh, T., Rawat, V., King, S.M., Harrington, M., Sweeney, M., Wang, X., Zlokovic, B., Joe, E., **Nation, D.A.**, Schneider, L.S., Chui, H.C., Krauss, R.M., Han, S.D., Yassine, H.A. (2022). The small HDL particle hypothesis of Alzheimer's disease. *Alzheimer's & Dementia*. PMID: 35416404.
83. Sible, I.J., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative (2022). Visit-to-visit blood pressure variability and longitudinal tau accumulation in older adults. *Hypertension*. 79(3):629-637.
82. Sible, I.J., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative (2022). Blood pressure variability and medial temporal atrophy in apolipoprotein ε4 carriers. *Brain Imaging and Behavior*. 16(2):792-801.
81. Werhane, M.L., Thomas, K.R., Bangen, K.J., Weigand, A.J., Edmonds, E.C., **Nation, D.A.**, Sundermann, E., Bondi, M.W., Delano-Wood, L., Alzheimer's Disease Neuroimaging Initiative (2021). Arterial stiffening moderates the relationship between type-2 diabetes mellitus and white matter hyperintensity burden in older adults with mild cognitive impairment. *Frontiers in Aging Neuroscience*. 13:716638.

80. Kapoor, A., Gaubert, A., Marshall, A., Meier, I.B., Yew, B., Ho, J.K., Blanken, A.E., Dutt, S., Sible, I.J., Li, Y., Jang, J.Y., Brickman, A.M., Rodgers, K., Nation, D.A.\* (2021). Increased levels of circulating angiogenic cells and signaling proteins in older adults with cerebral small vessel disease. *Frontiers in Aging Neuroscience*. 13:711784
79. Jang, J.Y., Han, S.D., Yew, B., Blanken, A.E., Dutt, S., Li, Y., Ho, J.K., Gaubert, A., Nation, D.A.\* (2021). Apathy and anterior cingulate functional connectivity in community-living older adults without dementia. *Frontiers in Aging Neuroscience*. 13:691710.
78. Sible, I.J., Ho, J., Blanken, A., Bangen, K.J., Nation, D.A.\* (2021). Antemortem visit-to-visit blood pressure variability predicts cerebrovascular lesion burden in autopsy-confirmed Alzheimer's disease. *Journal of Alzheimer's Disease*. 83(1):65-75.
77. Ho, J.K., Moriarty, F., Manly, J.J., Larson, E.B., Evans, D.A., Rajan, K.B., Hudak, E.M., Hassan, L., Liu, E., Sato, N., Hasebe, N., Laurin, D., Carmichael, P.H., Nation, D.A.\* (2021). Blood-brain barrier crossing renin-angiotensin drugs and cognition in the elderly: a meta-analysis. *Hypertension*. 78(3):629-643.
76. Sible, I.J., Ho, J., Blanken, A., Bangen, K.J., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative. (2021). Visit-to-visit blood pressure variability and regional cerebral perfusion decline in older adults. *Neurobiology of Aging*. 105:57-63.
75. Dutt, S., Li, Y., Mather, M., Nation, D.A.\*, Alzheimer's Disease Neuroimaging Initiative. (2021). Brainstem substructure volumes and cognition in prodromal Alzheimer's disease. *Brain Imaging and Behavior*. 15(5):2572-2582.
74. Eglit, G.M.L., Weigand, A.J., Nation, D.A., Bondi, M.W., Bangen, K.J. (2020). Hypertension and Alzheimer's disease neuropathology: modeling direct and indirect effects through circle of Willis atherosclerosis. *Brain Communications*. 2(2):fcaa114.
73. Sible, I., Nation, D.A.\*, for the Alzheimer's Disease Neuroimaging Initiative. (2020). Long-term blood pressure variability in older adults with cognitive impairment and Alzheimer's disease biomarker abnormality. *Journal of Alzheimer's Disease*. 77(4):1655-1669.
72. Dutt, S., Li, Y., Mather, M., Nation, D.A.\* (2020). Brainstem volumetric integrity in preclinical and prodromal Alzheimer's disease. *Journal of Alzheimer's Disease*. 77(4):1579-1594.
71. Jang, J.Y., Ho, J.K., Blanken, A.E., Dutt, S., Nation, D.A.\*, for the Alzheimer's Disease Neuroimaging Initiative. (2020). Affective neuropsychiatric symptoms as early signs of dementia risk in older adults. *Journal of Alzheimer's Disease*. 77(3):1195-1207.
70. Blanken, A.E., Nation, D.A.\* (2020). Does gender influence the relationship between high blood pressure and dementia? *Journal of Alzheimer's Disease*. 78(1):23-48.
69. Sweeney M.D., Sagare A.P., Pachicano M., Harrington, M.G., Joe, E., Chui, H.C., Schneider, L.S., Montagne, M., Ringman, J.M., Fagan, A.M., Morris, J.C., Pa, J., Nation, D.A., Toga, A.W., Berislav V. Zlokovic (2020). A novel sensitive assay for detection of a biomarker of pericyte injury in cerebrospinal fluid. *Alzheimer's & Dementia*. 16(6):821-830.
68. Montagne, A.Ψ, Nation, D.A.Ψ, Sagare, A.P., Barisano, G., Sweeney, M.D., Chakhoyan, A., Pachicano, M., Joe, E., Nelson, A.R., D'Orazio, L.M., Buennagel, D.P., Harrington, M.G., Benzinger,



T.L.S., Fagan, A.M., Ringman, J.M., Schneider, L.S., Morris, J.C., Reiman, E.M., Caselli, R.J., Chui, H.C., Chen, C., Pa, J., Conti, P.S., Law, M., Toga, A.W., Zlokovic, B.V. (2020). APOE4 leads to early blood-brain barrier dysfunction predicting human cognitive decline. *Nature*. 581(7806):71-76.

Ψ**Authors contributed equally.**

67. Blanken, A.E., Jang, J., Ho, J., Edmonds, E., Bangen, K.J., **Nation, D.A.\*** (2020). Distilling heterogeneity of mild cognitive impairment in the National Alzheimer Coordinating Center Database using latent profile analysis. *JAMA Network Open*. 3(3):e200413.

66. Blanken, A., Dutt, S., Li, Y., **Nation, D.A.\***, for the Alzheimer's Disease Neuroimaging Initiative. (2019). Disentangling heterogeneity in Alzheimer's disease: two empirically-derived subtypes. *Journal of Alzheimer's Disease*. 70(1):227-239.

65. **Nation, D.A.\***, Ho, J., Dutt, S., for the Alzheimer's Disease Neuroimaging Initiative. (2019). Longitudinal neuropsychological decline improves prediction of dementia beyond Alzheimer's biomarkers and MCI diagnosis. *Journal of Alzheimer's Disease*. 69(4):1171-1182

64. Montagne, A., Huuskonen, M.T., Rajagopal, G., **Nation, D.A.**, Sweeney, M.D., D'Orazio, L.M., Harrington, M.G., Chui, H.C., Toga, A.W., Law, M., Zlokovic, B.V. (2019). Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. *Alzheimer's & Dementia*. 15:1568-1575.

63. **Nation, D.A.**, Sweeney, M., Montagne, A., Sagare, A.P., D'Orazio, L.M., Pachicano, M., Seppeband, F., Nelson, A.R., Buennagel, D., Harrington, M.G., Benzinger, T.L.S., Fagan, A.M., Ringman, J.M., Schneider, L.S., Morris, J.C., Chui, H.C., Law, M., Toga, A.W., Zlokovic, B.V. (2019). Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. *Nature Medicine*. 25(2):270-276.

62. McIntosh, E., **Nation, D.A.\***, for the Alzheimer's Disease Neuroimaging Initiative. (2019). Importance of treatment status in links between type 2 diabetes and Alzheimer's disease biomarkers. *Diabetes Care*. 42(5):972-979.

61. Weissberger, G.H., Gollan, T.H., Bondi, M.W., **Nation, D.A.**, Hansen, L., Galasko, D., Salmon, D.P. (2019). Neuropsychological deficit profiles, vascular risk factors, and neuropathological findings in Hispanic older adults with autopsy-confirmed Alzheimer's disease. *Journal of Alzheimer's Disease*. 67(1):291-302.

60. Bangen, K.J., Delano-Wood, L., Sorg, S., **Nation, D.A.**, Evangelista, A., Clark, A., Bondi, M.W. for the Alzheimer's Disease Neuroimaging Initiative. (2018). Reduced regional cerebral blood flow relates to poorer cognition in older adults with type 2 diabetes. *Frontiers in Aging Neuroscience*. 10:270.

59. Weissberger, G.H., **Nation, D.A.**, Nguyen, C.A., Bondi, M.W., Han, S.D. (2018). Meta-analysis of cognitive ability differences by apolipoprotein E genotype in young humans. *Neuroscience & Biobehavioral Reviews*. 94:49-58.

58. Ho, J., **Nation, D.A.\***. (2018). Cognitive benefits of Angiotensin IV and Angiotensin-(1-7): a systematic review of experimental studies. *Neuroscience & Biobehavioral Reviews*. 92:209-225.

57. Ho, J., **Nation, D.A.\***, for the Alzheimer's Disease Neuroimaging Initiative. (2018). Neuropsychological profiles and trajectories in preclinical Alzheimer's disease. *Journal of the International Neuropsychological Society*. 24(7):693-702.

56. Werhane, M.L., Thomas, K.R., Edmonds, E.C., Bangen, K.J., Bondi, M.W., Tran, M., Clark, A.L., **Nation, D.A.**, Gilbert, P.E., Delano-Wood, L., for the Alzheimer's Disease Neuroimaging Initiative. (2018). Differential effect of APOE  $\epsilon$ 4 status and elevated pulse pressure on functional decline in cognitively normal older adults. *Journal of Alzheimer's Disease*. 62(4):1567-1578.
55. Emrani, S., Libon, D.J., Lamar, M., Price, C.C., Jefferson, A.L., Gifford, K.A., Hohman, T.J., **Nation, D.A.**, Delano-Wood, L., Jak, A., Bangen, K.J., Bondi, M.W., Brickman, A.M., Manly, J., Swenson, R., Au, R., on behalf of the Consortium for Epidemiological Neuropsychological Data Analysis (CENDA) (2018). Assessing working memory in mild cognitive impairment with serial order recall. *Journal of Alzheimer's Disease*. 61(3):917-928.
54. **Nation, D.A.\***, Tan, A., Dutt, S., McIntosh, E.C., Yew, B., Ho, J.K., Blanken, A.E., Jang, J.Y., Rodgers, K.E., Gaubert, A. (2018). Circulating progenitor cells correlate with memory, posterior cortical thickness and hippocampal perfusion. *Journal of Alzheimer's Disease*. 2018;61(1):91-101.
53. Yew, B., Nation, D.A.\*, for the Alzheimer's Disease Neuroimaging Initiative. (2017). Cerebrovascular resistance: effects on cognitive decline, cortical atrophy and progression to dementia. *Brain*. 140(7):1987-2001.
52. Ho, J., Nation, D.A.\*, for the Alzheimer's Disease Neuroimaging Initiative. (2017). Memory is preserved in older adults taking AT1-receptor blockers. *Alzheimer's Research & Therapy*. 9(1):33.
51. Bangen, K.J., Clark, A., Edmonds, E., Evangelista, N., Werhane, M., Thomas, K., Locano, L., Tran, M., Zlatar, Z.Z., **Nation, D.A.**, Bondi, M.W., Delano-Wood, L., for the Alzheimer's Disease Neuroimaging Initiative. (2017). Cerebral blood flow and amyloid- $\beta$  interact to affect memory performance in cognitively normal older adults. *Frontiers in Aging Neuroscience*. 8(9):181.
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33. Clark, L., Delano-Wood, L., Libon, D.J., McDonald, C.R., Bangen, K., **Nation, D.A.**, Jak, A.J., Au, R., Salmon, D.P., Bondi, M.W. (2013). Are empirically-derived subtypes of mild cognitive impairment consistent with conventional subtypes? *Journal of the International Neuropsychological Society*. 19(6):635-45.
32. Bangen, K.J., Alexa, B., Delano-Wood, L., **Nation, D.A.**, Lamar, M., Libon, D.J., Bondi, M.W., Seshadri, S., Wolf, P.A., Au, R. (2013). APOE genotype modifies the relationship between midlife vascular risk factors and later cognitive decline. *Journal of Stroke and Cerebrovascular Diseases*. 22(8):1361-9.
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20. **Nation, D. A.**, Gonzales, J. A., Mendez, A. J., Zaias, J., Szeto, A., Paredes, J., Brooks, L., D'Angola, A., Schneiderman, N., & McCabe, P.M. (2008). The effect of social environment on markers of vascular oxidant stress and inflammation in the Watanabe heritable hyperlipidemic rabbit. *Psychosomatic Medicine*, 70(3):269-75.

#### COMMENTARIES, LETTERS AND OTHER WRITINGS

19. Zlokovic, B.V., **Nation, D.A.**, Barnes, S. (invited). Hippocampal atrophy and the blood-brain barrier: effects in healthy aging versus neurocognitive disorders of aging.
18. Kremen, W., **Nation, D.A.**, Nyberg, L. (2022). The importance of cognitive practice effects in aging neuroscience. *Frontiers in Aging Neuroscience*. 14:1079021.
17. **Nation, D.A.\***, Kapoor, A. (2021). Reader response: Simple MRI score aids prediction of dementia in cerebral small vessel disease. *Neurology*. 96(1):39-40.
16. Kapoor, A., **Nation, D.A.\***. (2021). Role of NOTCH signaling in vascular aging and Alzheimer's disease. *Seminars in Cell and Developmental Biology*. 116:90-97.
15. Montagne, A., **Nation, D.A.**, Zlokovic, B.V. (2020). APOE4 accelerates development of dementia after stroke: is there a role for cerebrovascular dysfunction? *Stroke*. 51(3):699-700.
14. Sweeney, M.D., Montagne, A., Sagare, A.P, **Nation, D.A.**, Schneider, L.S., Chui, H.C., Harrington, M.G., Pa, J., Law, M., Wang, D.J.J., Jacobs, R.E., Doubal, F.N., Black, S.E., Nedergaard, M., Benveniste, H., Dichgans, M., Iadecola, C., Love, S., Bath, P.M., Markus, H.S., Salman, R.A., Allan, S.M., Quinn, T.J., Kalaria, R.N., Werring, D.J., Carare, R.O., Touyz, R.M., Williams, S.C.R., Moskowitz, M., Katusic, Z.S., Lutz, S.E., Lazarov, O., Minshall, R.D., Rehman, J., Davis, T.P., Wellington, C.L., González, H.M., Yuan, C., Hughes, T.M., Seshadri, S., Gottesman, R.G., Arvanitakis, Z., Schneider, J.A., Drewes, L.R., Hachinski, V., Finch, C.E., Toga, A.W., Wardlaw, J.M., Zlokovic, B.Z. (2019). Vascular dysfunction - the disregarded partner of Alzheimer's disease. *Alzheimer's & Dementia*. 15(1):158-167.
13. **Nation, D.A.\*** (2018). Blood pressure and cerebral blood flow in Alzheimer disease. *Hypertension*. 72(1):68-69.
12. Montagne, A., **Nation, D.A.**, Pa, J., Toga, A.W., Zlokovic, B.V. (2016). Brain imaging of neurovascular dysfunction in Alzheimer's disease. *Acta Neuropathologica*. 131(5):687-707.
11. Bondi, M.W., **Nation, D.A.**, Salmon, D.P. (2012). Mapping the long slow progression of brain and behavioral changes that lead to Alzheimer's disease. *Aging Health*. 8, 567-72.

10. **Nation, D.A.**, Hong, S., Jak, A., Delano-Wood, L., Mills, P.J., Bondi, M.W., Dimsdale, J. (2011). Stress, exercise, and Alzheimer's disease: a neurovascular pathway. *Medical Hypotheses*. 76(6):847-54.

*BOOK CHAPTERS*

10. **Nation, D.A.**\* (in prep). Neurocognitive Disorders, Alzheimer's Disease and Related Disorders (ADRD). *APA handbook of adult development and aging*. American Psychological Association. Washington, DC.

9. **Nation, D.A.**\* (2022). Vascular disease including vascular dementia. In G. G. Brown, T. Z. King, K. Y. Haaland, & B. Crosson (Eds.), *APA handbook of neuropsychology: Vol. 1. Neurobehavioral disorders and conditions: Accepted science and open questions*. American Psychological Association. Washington, DC.

8. **Nation, D.A.**\*, McIntosh, E. (2020). The blood-brain barrier and the vascular hypothesis of Alzheimer's disease. Libon, D.J., Swenson, R., Lamar, M., Heilman, K.M. (Ed). *Vascular Disease, Alzheimer's, and Mild Cognitive Impairment: An Integrated Approach*. Oxford University Press. New York, NY.

7. Yew, B., Blanken, A., **Nation, D.A.**\* (2020). Age-related arterial stiffening and cerebrovascular resistance in cognitive decline and Alzheimer's disease. Libon, D.J., Swenson, R., Lamar, M., Heilman, K.M. (Ed). *Vascular Disease, Alzheimer's, and Mild Cognitive Impairment: An Integrated Approach*. Oxford University Press. New York, NY.

6. Ho, J., **Nation, D.A.**\* (2020). Vascular cognitive impairment. Bondi, M.W., Jefferson, A. (Ed). *Neuropsychology of Alzheimer's Disease and Other Dementias – 2<sup>nd</sup> Edition*. Oxford University Press. New York, NY.

5. **Nation, D.A.**, Schneiderman, N., McCabe, P.M., (2018). Coronary artery disease – nonhuman primate and human. Waldstein, S.R., Kop, W.J., Katzell, L.I. (Eds.) *Compendium of Cardiovascular Behavioral Medicine*. New York, NY: Springer.

4. **Nation, D.A.**, Salmon, D.P., Bondi, M.W. (2015). The neuroscience of cortical dementias: linking neuroanatomy, neurophysiology, and neuropsychology. Noggle, C.A., Dean, R.S. (Eds.) *The Neuropsychology of Cortical Dementias*. New York, NY: Springer.

3. Delano-Wood, L., Bigler, E.D., **Nation, D.A.**, Clark, A., Au, R., Bondi, M.W. (2015). Clinico-behavioral and neuropathological sequelae of traumatic brain injury in the aging brain. Lichtenberg, P., Mast, B.T. *APA Handbook of Clinical Geropsychology*. American Psychological Association, Washington, DC.

2. Jak, A.J., **Nation, D.A.**, Delano Wood, L., Stricker, N.R., and Schiehser, D. (2014). Relationship between vascular risk factors and mild cognitive impairment. Kun Sun, M (Ed.) *Advances in Cognitive and Behavioral Sciences*. 1-27. Hauppauge, NY: Nova Science Publishers.

1. **Nation, D.A.**, Schneiderman, N. McCabe, P.M. (2010). Animal models in health psychology research. In R. Kaplan, K. Davidson, & J.M. Suls (Eds.) *Handbook of Health Psychology and Behavioral Medicine*. New York, NY: Guilford Press.

## **MANUSCRIPTS UNDER EDITORIAL REVIEW**

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8. Edwards, L., Thomas, K.R., Weigand, A.J., Edmonds, E.C., Clark, A.L., Brenner, E.K., Banks, S.J., Gilbert, P.E., Nation, D.A., Delano-Wood, L., Bondi, M.W., Bangen, K.J. (under review). Pulse pressure and APOE  $\epsilon$ 4 dose interact to affect cerebral blood flow in older adults without dementia
7. Kapoor, A., Levine, L., Mather, M., **Nation, D.A.\*** (under review). Emotional enhancement of memory in Alzheimer's disease dementia: A systematic review.
6. Sible, I., **Nation, D.A.\*** (under review). Variability in 24-hour ambulatory blood pressure predicts future dementia in older adults: secondary analysis of the SPRINT MIND trial.
5. Dutt, S., Bachman, S.L., Yanrong Li, Martin J. Dahl, Belinda Yew, Jung Y. Jang, Jean K. Ho, Kaoru Nashiro, Jungwon Min, Hyun Joo Yoo, Aimee Gaubert, Amy Nguyen, Anna E. Blanken, Isabel J. Sible, Anisa J. Marshall, Arunima Kapoor, John P. Alitin, Kim Hoang, Fatemah Shenasa, Alessandra Martini, Elizabeth Head, Kathleen Rodgers, Xingfeng Shao, Danny J. J. Wang, Mara Mather, **Nation, D.A.\*** (under review). Links between locus coeruleus MRI contrast and cerebral perfusion are moderated by plasma Alzheimer's biomarkers in older adults.
4. Kapoor, A., Sible I.J., Kapoor, A., Dutt, S., Engstrom, A., Shenasa, F., Jang, J.Y., Han, S.D., **Nation, D.A.\*** (under review). Older adults with enlarged perivascular spaces show decreased fronto-parietal network connectivity.
3. Sible I.J., Kapoor, A., Dutt, S., Engstrom, A., Shenasa, F., Jang, J.Y., Han, S.D., **Nation, D.A.\*** (under review). Older adults with higher blood pressure variability during resting state fMRI exhibit attenuated default mode network connectivity.
2. Ho, J.K., **Nation, D.A.\*** (in revisions). Robust normative data for neuropsychological tests accounting for primary language use in Asian American older adults.
1. Kapoor, A., Dutt, S., Yew, B., Jang, J.Y., Alitin, J.P., Ho, J.K., Sible, I.J., Marshall, A., Shenasa, F., Engstrom, A.C., Gaubert, A., Shao, X., D.R., Rodgers, K., Wang, DJJ, **Nation, D.A.\*** (under review). Older *APOE4* carriers with reduced cerebrovascular reactivity exhibit high white matter hyperintensity burden

## **ORAL PRESENTATIONS**

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39. **Nation, D.A.\*** (2023). Cerebral perfusion and vasomotor reactivity in Fabry disease. University of California Irvine, School of Medicine. Neurology Department Grand Rounds.
38. **Nation, D.A.\*** (2023). Cerebrovascular mechanisms of cognitive decline and dementia. University of Southern California, Keck School of Medicine.
37. **Nation, D.A.\*** (2023). Characterizing novel cerebrovascular factors in cognitive decline and dementia. University of Southern California, School of Gerontology.
36. **Nation, D.A.\*** (2022). Vascular factors in cognitive decline and Alzheimer's disease. University of California Irvine, Longevity Conference.

35. **Nation, D.A.\*** (2022). Vascular factors in cognitive decline: new directions & emerging trends. Annual Meeting of the American College of Sports Medicine, San Diego, CA.
34. **Nation, D.A.\*** (2021). New directions for research on vascular biomarkers of cognitive impairment. University of California Irvine, Alzheimer's Disease Research Center, Quarterly Seminar Series.
33. **Nation, D.A.\*** (2021). Vascular contributions to cognitive impairment and dementia. University of California Irvine, Department of Neurology, Grand Rounds.
32. **Nation, D.A.\*** (2021). Older adults showing neuropsychological decline on serial testing exhibit greater Alzheimer's disease biomarker abnormalities. Annual meeting of the International Neuropsychological Society.
31. **Nation, D.A.\*** (2021). Update on vascular contributions to cognitive impairment and dementia. Invited presentation for Continuing Education credit at the annual meeting of the International Neuropsychological Society.
30. **Nation, D.A.\*** (2020). Cardiovascular contributions to cognitive impairment and dementia. Invited presentation at the University of California Irvine, Institute for Memory Impairments and Neurological Disorders Seminar Series.
29. **Nation, D.A.\*** (2020). Improving diagnostic classification by operationalizing decline on serial cognitive testing. Annual meeting of the Alzheimer's Association International Conference, Cognitive Professional Interest Area.
28. **Nation, D.A.\*** (2020). Cardiovascular health and dementia. Invited address to Tec 7 group at the University of California Irvine (UCI) Institute for Memory Impairments and Neurological Disorders (MIND).
27. **Nation, D.A.\*** (2020). Update on Vascular Cognitive Impairment. Invited address to the Orange County Psychological Association, Irvine, CA.
26. **Nation, D.A.\*** (2020). How does heart health impact the brain? Facebook live event hosted by the University of California Irvine (UCI) Institute for Memory Impairments and Neurological Disorders (MIND) as part of the Ask the Doc seminar series.
25. **Nation, D.A.** (2020). Panel Discussant. Governor's Task Force on Alzheimer's Prevention, Preparedness and a Path Forward Initial Meeting. Hosted by the University of California Irvine (UCI) Institute for Memory Impairments and Neurological Disorders (MIND).
24. **Nation, D.A.\*** (2020). Neuropsychological decline stratifies dementia risk in cognitively unimpaired and impaired older adults. Annual meeting of the International Neuropsychological Society in Denver, CO.
23. **Nation, D.A.\*** (2019). Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. Biannual meeting of the Foundation Leducq, Paris, France.
22. **Nation, D.A.\*** (2019). Vascular factors in Alzheimer's Disease. University of California Irvine, Ask the Doc Seminar Series. Irvine, CA.



21. **Nation, D.A.\*** (2019). Connecting cardiovascular disease risk to dementia. Invited address to the California Department of Public Health, Chronic Disease Control Branch. Advancing Team-Based Care: A Path to Healthy Hearts in California. Presented in Sacramento, CA.
20. **Nation, D.A.\*** (2019). New insights into vascular contributions to cognitive impairment and Alzheimer's disease. Southern California Alzheimer's Disease Centers Research Symposium in Irvine, CA.
19. **Nation, D.A.\*** (2019). Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. Biannual Alzheimer's Disease Parkinson's Disease meeting in Lisbon, Portugal.
18. **Nation, D.A.\***, Ho, J., Dutt, S., Blanken, A. (2019) New method for identifying neuropsychological decline predicts progression to dementia beyond Alzheimer's biomarkers in asymptomatic elderly. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City
17. **Nation, D.A.\*** (2019). USC Annenberg Facebook Live Special on Dementia and Alzheimer's Disease. University of Southern California, Los Angeles, CA.
16. **Nation, D.A.\***, Peters, R., Iadecola, C., Skoog, I. (2018). Update on hypertension and Alzheimer's disease: From epidemiology to basic science. Co-chair of a Focused Research Session presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.
15. **Nation, D.A.\*** (2018). Cerebrovascular resistance in Alzheimer's disease. Presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.
14. **Nation, D.A.\***, Tan, A., McIntosh, E., Yew, B., Ho, J., Dutt, S., Blanken, A., Jang, J., Rodgers, K., Gaubert, A. (2018). Circulating progenitor cells correlate with memory, posterior cortical thickness and hippocampal perfusion. Presented at the annual meeting of the International Neuropsychological Society.
13. **Nation, D.A.** (2018). Panel Discussant. Lamar, M., Price, C., Rentz, D.M., Au, R., Libon, D., **Nation, D.A.**, Nilsen, W.J. The present and future of technology in neuropsychological assessment: What is feasible (& fundable) today, tomorrow and in years to come. This is a panel discussion presented at the annual meeting of the International Neuropsychological Society.
12. **Nation, D.A.\*** (2017). Blood pressure and cerebral blood flow interactions in Alzheimer's disease: Implications for early prediction and preventative efforts. Invited address at the Alzheimer's Association International Conference, London, UK.
11. **Nation, D.A.\***, Ho, J. (2017). Independent and interactive effects of cerebral amyloid and tau on neuropsychological decline and structural brain changes in older adults. Presented at the annual meeting of the International Neuropsychological Society, New Orleans, LA
10. **Nation, D.A.\*** (2016). Cerebrovascular resistance in Alzheimer's Disease. Vascular Contributions to Alzheimer's Disease & Brain Aging: Neuroimaging Approaches. Keynote address at the Inaugural Symposium of Wake Forest School of Medicine, Alzheimer's Disease Core Center, Wake Forest, NC
9. **Nation, D.A.**, Zlokovic, B.Z. (2016). Vascular and Alzheimer's disease interactions. Invited address at the Alzheimer's Association International Conference. Toronto, OT, Canada

8. **Nation, D.A.\*** (2015). Indexing cerebrovascular resistance in aging and Alzheimer's disease. Invited address at the Annual meeting of the Society for Brain Mapping and Therapeutics. Los Angeles, CA
7. **Nation, D.A.\*** (2015). The role of vascular aging in cognitive decline and Alzheimer's disease. Invited address at the 26<sup>th</sup> Annual Southern California Alzheimer's Disease Research Conference. Healthy Brain Aging: Considering the Possibilities. University of California Irvine, Irvine, CA
6. **Nation, D.A.\*** (2015). Arterial stiffening in cognitive decline and Alzheimer's disease. Invited address at the 2<sup>nd</sup> Annual Zilkha Symposium on Alzheimer Disease & Related Disorders, University of Southern California, Los Angeles, CA.
5. **Nation, D.A.\*** (2015). Edmonds, E.C., Bangen, K.J., Delano-Wood, L., Salmon, D.P., Galasko, D.R., Bondi, M.W. Cognitive profiles of tau pathology and amyloidosis in prodromal AD. Annual meeting of the International Neuropsychological Society. Boston, MA
4. **Nation, D.A.\*** (2014). Arterial stiffening in cognitive decline and Alzheimer's disease. Invited address at the USC School of Gerontology Seminar Series, Los Angeles, CA.
3. **Nation, D.A.\*** (2013). Arterial spin labeling MRI-based index of cerebrovascular resistance in aging and Alzheimer's disease. Invited address at the Stanford / VA Aging Clinical Research Center Seminar, Palo Alto, CA.
2. **Nation, D.A.** (2013). Cerebrovascular resistance index in Alzheimer's disease. Annual meeting of the Southern California Alzheimer's Disease Research Centers. Los Angeles, CA
1. **Nation, D.A.**, Clark, L.R., Wierenga, C.E., Delano-Wood, L., Bangen, K.J., Jak, A.J., Bondi, M.W. (2013). Pulse pressure-to-cerebral blood flow ratio: a potential role in the progression of MCI to dementia. Annual meeting of the Society for Vascular Cognitive and Behavioural Disorders. Toronto, CA

## **STUDENT PAPER PRESENTATIONS**

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19. Dutt, S., Mather, M., **Nation, D.A.\*** (2023). Locus coeruleus integrity, cerebral perfusion and cognition. Annual meeting of the Alzheimer's Association International Conference.
18. Sible, I., **Nation, D.A.\*** (2023). Visit-to-visit blood pressure variability and cognitive decline in apolipoprotein e4 carriers. Alzheimer's Association International Conference on the role of apolipoprotein E4 in Alzheimer's disease.
17. Dutt, S., Mather, M., **Nation, D.A.\*** (2023). Locus coeruleus integrity, cerebral perfusion and cognition. Annual Meeting of the International Neuropsychological Society.
16. Sible, I., **Nation, D.A.\*** (2022). Visit-to-visit blood pressure variability and CSF Alzheimer's disease biomarkers in older adults. Annual Alzheimer's Disease & Parkinson's Disease Conference.
15. Sible, I.J., Ho, J., Blanken, A., Bangen, K.J., **Nation, D.A.\*** (2021). Antemortem visit-to-visit blood pressure variability predicts cerebrovascular lesion burden in autopsy-confirmed Alzheimer's disease. Annual meeting of the Alzheimer's Association International Conference.

14. Sible, I.J., Yew, B., Dutt, S., Bangen, K.J., Li, Y., **Nation, D.A.\*** (2021). Visit-to-visit blood pressure variability predicts decline in cerebral perfusion in older adults. Annual meeting of the International Neuropsychological Society.
13. Kapoor, A, Gaubert, A, Marshall, A, Yew, B, Ho, J.K., Blanken, A.E., Dutt, S., Sible, I.J., Li, Y., Jang, J.Y., Rodgers, K.E., Soto, M., Tan, A., **Nation, D.A.\*** (2021). Systemic markers of angiogenesis and neuropsychological functioning in older adults. Annual meeting of the International Neuropsychological Society.
12. Dutt, S., Li, Y., Mather, M., **Nation, D.A.\*** (2020). Brainstem volumetric integrity in preclinical and prodromal Alzheimer's disease. Annual meeting of the Alzheimer's Association International Conference.
11. Dutt, S. **Nation, D.A.\*** (2020). Neuropsychological correlates of decreased brainstem volume. Annual meeting of the International Neuropsychological Society in Denver, CO.
10. McIntosh, E.C., **Nation, D.A.\*** (2020). Older adults with longer type 2 diabetes mellitus disease duration exhibit greater cognitive slowing, cerebral tau hyperphosphorylation, and cerebral glucose hypometabolism. Annual meeting of the International Neuropsychological Society in Denver, CO.
9. Sible, I., **Nation, D.A.\*** (2020). Long-term blood pressure variability is increased with cognitive impairment in biomarker-confirmed Alzheimer's disease. Annual meeting of the International Neuropsychological Society in Denver, CO.
8. Dutt, S., Mather, M., **Nation, D.A.\*** (2019). Locus coeruleus volume is attenuated in preclinical and prodromal Alzheimer's disease. Second annual locus coeruleus imaging meeting. Magdeburg, Germany.
7. Yew, B., Dutt, S., Ho, J.K., McIntosh, E.C., Blanken, A.E., Jang, J.Y., Gaubert, A., **Nation, D.A.\*** (2018). Increased cerebrovascular resistance correlates with worse cognitive performance in older adults with normal cerebral blood flow. Presented at the annual meeting of the International Neuropsychological Society.
6. Ho, J., **Nation, D.A.\*** (2017). Preserved memory and reduced white matter lesion burden in older adults taking AT<sub>1</sub>-receptor blockers that cross the blood-brain barrier. Presented at the Alzheimer's Association International Conference in London.
5. Yew, B., **Nation, D.A.\*** (2017). Elevated cerebrovascular resistance predicts increased amyloidosis, cerebral atrophy, and cognitive decline. Presented at the annual meeting of the International Neuropsychological Society.
4. McIntosh, E., **Nation, D.A.\*** (2017). Untreated diabetes associated with tau pathology and worse cognitive performance in older adults. Presented at the annual meeting of the International Neuropsychological Society.
3. Blanken, A., **Nation, D.A.\*** (2017). Longitudinal neurocognitive profiling of empirically-derived Alzheimer's disease variants. Presented at the annual meeting of the International Neuropsychological Society.
2. Yew, B., **Nation, D.A.\*** (2016). Cerebrovascular resistance index is associated with cognitive impairment and amyloid deposition in older adults with and without dementia. Presented at the annual

meeting of the International Neuropsychological Society. Reddick Award winner for best predoctoral abstract submission.

1. Blanken, A., Nation, D.A.\* (2016). Neurocognitive endophenotypes of preclinical AD and their differential progression to dementia. Presented at the annual meeting of the International Neuropsychological Society.

## **POSTER SESSIONS & PUBLISHED ABSTRACTS**

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146. Zlokovic B.V., Chakhoyan, A., Pappas, I., Barnes, S., Sagare, A., Reiman, E.M., Caselli, R.J., Benzinger, T., Morris, J.C., Ringman, J.M., Yassine, H.N., Schneider, L., Chui, H.C., Toga, A.W., **Nation, D.A.** (2023). Cerebrovascular dysfunction predicts white matter connectivity changes underlying cognitive dysfunction in multiple domains in APOE4 carriers.

145. Sagare AP, **Nation, DA**, Ramirez, I., Torres-Sepulveda, C., Joe, E.B., Chui, HC., Ringman, J., Harrington, M.G., Yassine, H., Schneider, L.S., Kirmess, K.M., Meyer, M.R., Yarasheski, K.E., Toga, A.W., Zlokovic, B.V. (2023). Biofluid biomarkers of brain vascular dysfunction and Alzheimer's disease in APOE4 carriers.

144. Kapoor, A., **Nation, D.A.\*** (2023). Angiogenic mechanisms in Alzheimer's disease: a systematic review of neuropathological evidence. Annual meeting on Clinical Trials in Alzheimer's Disease.

143. Alishahi, F., Beam, C., Gatz, M., **Nation, D.A.**, Schneider, L., Zandi, E. (2023). 5ADCSI, an Ultrasensitive 5-Plex Capture Sandwich Immune Assay for 5 Alzheimer Disease (AD) Biomarkers from Plasma. Annual Southern California Alzheimer's Research Symposium.

142. Sible, I.J., Jang, J., Blanken, A., Alitin, J.P., Dutt, S., Marshall, A.J., Kapoor, A., Shenasa, F., Engstrom, A., Gaubert, A., Nguyen, A., Mather, M., **Nation, D.A.\*** (submitted). Blood pressure variability and functional network connectivity in older adults. Annual meeting of the Alzheimer's Association International Conference.

141. Kapoor, A., Dutt, S., Alitin, J.P., Jang, J., Gaubert, A., Nguyen, A., Sible, I.J., Marshall, A., Shenasa, F., Engstrom, A., Bradford, D.R., Rodgers, K., Shao, X., Wang, D.J.J., **Nation, D.A.\*** (submitted). APOE4 Carriers with Perivascular Spaces Exhibit Altered Cerebral Blood Flow. Annual meeting of the Alzheimer's Association International Conference.

140. Dutt, S., Woodsworth, Sajjadi, S., Corrada, M., Kawas, C., **Nation, D.A.\*** (submitted). Cerebral perfusion and amyloidosis in the oldest-old. Annual meeting of the Alzheimer's Association International Conference.

139. Kapoor, A., Mather, M., **Nation, D.A.\*** (submitted). Emotional Enhancement of Memory in Alzheimer's Disease: A Systematic Review. Annual meeting of the Alzheimer's Association International Conference.

138. Sible, I., Yew, B., Kapoor, A., Jang, J., Alitin, J.P., Dutt, S., Li, Y., Blanken, A.E., Ho, J.K., Marshall, A.J., Shenasa, F., Gaubert, A., Nguyen, A., Sturm, V.E., **Nation, D.A.\*** (2023). Short-term blood pressure variability and cerebrovascular health in older adults. Annual meeting of the International Neuropsychological Society.

137. Kapoor, A., Gaubert, A., Nguyen, A., Yew, B., Jang, J.Y., Dutt, S., Li, Y., Alitin, J.P., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Shenasa, F., Martini, A., Head, E., **Nation, D.A.\*** (2022). Elevated Plasma pTau-181 is Associated with Lower Global Cognition and Executive Function in Older Adults. Annual Meeting of the International Neuropsychological Society.

136. Kapoor, A., Gaubert, A., Nguyen, A., Yew, B., Jang, J.Y., Dutt, S., Li, Y., Alitin, J.P., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Shenasa, F., Martini, A., Head, E., **Nation, D.A.\*** (2022). Low plasma A $\beta$ 42/A $\beta$ 40 ratio in older adults with enlarged perivascular spaces. Clinical Trials on Alzheimer's Disease Annual Meeting.

135. Sible, I., **Nation, D.A.\*** (2022). Visit-to-visit blood pressure variability and cognition in the SPRINT MIND trial. Clinical Trials on Alzheimer's Disease Annual Meeting.

134. Kapoor, A., Gaubert, A., Nguyen, A., Yew, B., Jang, J.Y., Dutt, S., Li, Y., Alitin, J.P., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Shenasa, F., Martini, A., Head, E., **Nation, D.A.\*** (2022). Low plasma A $\beta$ 42/A $\beta$ 40 ratio in older adults with enlarged perivascular spaces.

133. Kapoor, A., Jang, J., Dutt, S., Yew, B., Li, Y., Alitin, J.P., Gaubert, A., Ho, J.K., Blanken, A.E., Sible, I.J., Marshall, A., Xingfeng Shao, PhD4, Wang, D.J.J., Nation, D.A. (2022). Enlarged perivascular spaces and cerebrovascular reactivity deficits in older adults. Annual Meeting of the Society for Neuroscience.

132. Kapoor, A., Dutt, S., Jang, J., Yew, B., Blanken, A.E., Ho, J.K., Marshall, A.J., Gaubert, A., Shao, X., Wang, D.J., **Nation, D.A.\*** (2022). Cerebrovascular reactivity deficits in older adults with elevated levels of plasma vascular injury markers. Annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment.

131. Marshall, A., **Nation, D.A.\*** (2022). Integrity of callosal white matter moderates the relationship between white matter hyperintensities and executive function in older adults. Annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment.

130. Min, J., Rouanet, J., Martini, A.C., Nashiro, K., Yoo, H.J., Cho, C., Cole, S.W., Head, E., Nation, D.A., Thayer, J.F., Mather, M. (2022). Daily Heart Rate Variability Biofeedback Practice Sessions Affect Plasma A $\beta$ 40 and A $\beta$ 42 Levels in Healthy Younger and Older Adults: A Randomized Clinical Trial. Annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment.

129. Chakhoyan, A., Barisano, G., **Nation, D.A.**, Montagne, A., D'Orazio, L.M., Buennagel, D.P., Harrington, M.G., Ringman, J.M., Scheider, L.S., Pa, J., Law, M., Benzinger, T.L.S., Morris, J.C., Chui, H.C., Toga, A.W., Zlokovic, B.V. (2022). Blood brain barrier permeability and white matter hyperintensities in APOE4 carriers. Annual meeting of The International Society for Magnetic Resonance in Medicine.

128. Sible, I., **Nation, D.A.\*** (2022). Visit-to-visit blood pressure variability and CSF Alzheimer's disease biomarkers in older adults. Annual Alzheimer's Disease & Parkinson's Disease Conference.

127. Kapoor, A., **Nation, D.A.\*** (2022). White matter hyperintensity burden is associated with elevated platelet-derived growth factor-BB in APOE4 carriers. Annual meeting of the International Neuropsychological Society.

126. Sible, I.J., Yew, B., Dutt, S., Li, Y., Blanken, A.E., Jang, J.Y., Ho, J.K., Marshall, A.J., Kapoor, A., Gaubert, A., Bangen, K.J., Sturm, V.E., Shao, X., Wang, D.J., **Nation, D.A.\*** (2022). Selective vulnerability of medial temporal regions to blood pressure variability and cerebral hypoperfusion in older adults. Annual Meeting of the International Neuropsychological Society.
125. Sible, I.J., **Nation, D.A.\*** (2022). Visit-To-Visit Blood Pressure Variability Predicts Longitudinal Tau Accumulation in Older Adults. Annual meeting of the International Neuropsychological Society.
124. Kapoor, A., Dutt, S., Gaubert, A., Marshall, A., Yew, B., Ho, J.K., Blanken, A.E., Sible, I.J., Li, Y., Jang, J.Y., **Nation, D.A.\*** (2021). Endothelial progenitor cells as a protective vascular factor against memory impairment in older adults with white matter hyperintensities. Annual meeting of the Alzheimer's Association International Conference.
123. Sible, I.J., Bangen, K.J., Blanken, A.E., Ho, J.K., **Nation, D.A.\*** (2021). Antemortem visit-to-visit blood pressure variability predicts cerebrovascular lesion burden in autopsy-confirmed Alzheimer's disease. Annual meeting of the Alzheimer's Association International Conference.
122. Kapoor, A., **Nation, D.A.\*** (2021). Cancer is inversely related to AD dementia independent of amyloid and tau. Annual meeting of the Alzheimer's Association International Conference.
121. Sible, I.J., Ho, J., Blanken, A., Bangen, K.J., **Nation, D.A.\*** (2021). Antemortem visit-to-visit blood pressure variability predicts cerebrovascular lesion burden in autopsy-confirmed Alzheimer's disease. Annual meeting of the Alzheimer's Association International Conference.
120. Kapoor, A., Dutt, S., Gaubert, A., Marshall, A., Yew, B., Ho, J.K., Blanken, A.E., Sible, I.J., Li, Y., Jang, J.Y., **Nation, D.A.\*** (2021). Older adults with cerebral small vessel disease show increased levels of circulating vascular endothelial growth factor D. Annual International Stroke Conference.
119. Kapoor, A., Dutt, S., Gaubert, A., Marshall, A., Yew, B., Ho, J.K., Blanken, A.E., Sible, I.J., Li, Y., Jang, J.Y., **Nation, D.A.\*** (2021). Endothelial progenitor cells as a protective vascular factor against memory impairment in older adults with white matter hyperintensities. Annual American Academy of Neurology meeting.
118. Dutt, S., Yew, B., Li, Y., Ho, J.K., Jang, J.Y., Blanken, A., Sible, I., Marshall, A., Kapoor, A., Gaubert, A., Wang, D.J., **Nation, D.A.\*** (2021). Memory dysfunction is linked to medial temporal hypoperfusion in APOE4 carriers. Annual meeting of the International Neuropsychological Society.
117. Emrani, S., Matusz, E.F., Wasserman, V., Swenson, R., Nagele, R., Nation, D.A., Libon, D.J. (2021). ICAM-1 moderates the relationship between visual episodic memory and triglycerides in both men and women. Annual meeting of the International Neuropsychological Society.
116. Sible, I.J., Yew, B., Dutt, S., Bangen, K.J., Li, Y., **Nation, D.A.\*** (2021). Visit-to-visit blood pressure variability predicts decline in cerebral perfusion in older adults. Annual meeting of the International Neuropsychological Society.
115. Marshall, A., Gaubert, A., Kapoor, A., Yew, B., Blanken, A.E., Dutt, S., Ho, J.K., Jang, J.Y., Sible, I.J., Li, Y., Rodgers, K.E., **Nation, D.A.\*** (2021). Endothelial progenitor cells are depleted in older adults with cerebral small vessel disease and cognitive dysfunction. Annual meeting of the International Neuropsychological Society.

114. Yew, B., Dutt, S., Li, Y., Shao, X., Wang, D.J.J., Gaubert, A., Ho, J.K., Jang, J.Y., Blanken, A.E., Sible, I.J., Marshall, A., **Nation, D.A.\*** (2021). Contributions of dynamic cerebrovascular function to cognitive decline: Validation of a novel neuroimaging approach. Annual meeting of the International Neuropsychological Society.

113. Kapoor, A, Gaubert, A, Marshall, A, Yew, B, Ho, J.K., Blanken, A.E., Dutt, S., Sible, I.J., Li, Y., Jang, J.Y., Rodgers, K.E., Soto, M., Tan, A., **Nation, D.A.\*** (2021). Systemic Markers of Angiogenesis and Neuropsychological Functioning in Older Adults. Annual meeting of the International Neuropsychological Society.

112. Yew, B., Dutt, S., Li, Y., Wang, D.J.J., **Nation, D.A.\*** (2020). Detection of attenuated dynamic cerebrovascular function in aging and cognitive decline using a novel neuroimaging approach. Annual meeting of the Alzheimer's Association International Conference.

111. Marshall, A, Gaubert, A., Ho, J.K., Yew, B.A., Blanken, A.E., Dutt, S., Sible, I.J., Jang, J.Y., Li, Y., Rodgers, K.E., **Nation, D.A.\*** (2020). Endothelial progenitor cells are depleted in older adults with cognitive impairment and white matter volume loss. Annual meeting of the Alzheimer's Association International Conference.

110. Kapoor, A., Dutt, S., Jang, J., Ho, J.K., Yew, B., Blanken, A., Gaubert, A., Marshall, A., Sible, I., Rodgers, K., Li, Y., **Nation, D.A.\*** (2020). Increased circulating endothelial progenitor cells as a biomarker for cerebral microvascular pathology in cognitively normal older adults. Annual meeting of the Alzheimer's Association International Conference.

109. Sible, IJ, Yew, B., Dutt, S., Li, Y., Ho, J.K., Jang, J., Blanken, A.E., Gaubert, A., Marshall, A., Kapoor, A., Shao, X., Wang, D.J., **Nation, D.A.\*** (2020). Mean arterial pressure during cerebral perfusion MRI: an arterial spin-labeling study. Annual meeting of the Alzheimer's Association International Conference in Conference.

108. Dutt, S., Li, Y., Mather, M., **Nation, D.A.\*** (2020). Brainstem volumetric integrity in preclinical and prodromal Alzheimer's disease. Annual meeting of the Alzheimer's Association International Conference.

107. Weigand, A.J., **Nation, D.A.,** Delano-Wood, L., Bangen, K.J., Galasko, D.R., Bondi, M.W. (2020). Elevated pulse pressure predicts longitudinal accumulation of tau PET in nondemented older adults. Annual meeting of the Alzheimer's Association International Conference.

106. Jang, J., Han, S.D., **Nation, D.A.\*** (2020). Affective neuropsychiatric symptoms may be early signs of dementia in older adults with normal cognition or mild cognitive impairment. Annual meeting of the Gerontological Society of America in Philadelphia, Pennsylvania.

105. Marshall, A., Gaubert, A., Ho, J.K., Yew, B., Blanken, A.E., Dutt, S., Sible, I., Li, Y., Jang, J.Y., McIntosh, E.C., Tan, A., Rodgers, K.E., Nation, D.A. (2020). Angiogenic cytokine IL-8 is associated with increased in vitro hematopoietic progenitor cell proliferation, language, and executive functioning in older adults. Annual meeting of the International Neuropsychological Society in Denver, CO.

104. Jang, J., Han, S.D., **Nation, D.A.\*** (2020). Apathy and anterior cingulate functional connectivity in community-living older adults without dementia. Annual meeting of the International Neuropsychological Society in Denver, CO.

103. Li, Y., Dutt, S., Nation, D.A.\* (2020). Performance on a novel visual memory task is linked decreased cortical volume in older adults. Annual meeting of the International Neuropsychological Society in Denver, CO.
102. Dutt, S. Nation, D.A.\* (2020). Neuropsychological correlates of decreased brainstem volume. Annual meeting of the International Neuropsychological Society in Denver, CO.
101. Yew, B., Dutt, S., Li, Y., Wang, D.J.J., Nation, D.A.\* (2020). Investigation of dynamic cerebrovascular function in aging and cognitive decline using a novel neuroimaging approach. Annual meeting of the International Neuropsychological Society in Denver, CO.
100. McIntosh, E.C., Nation, D.A.\* (2020). Older adults with longer type 2 diabetes mellitus disease duration exhibit greater cognitive slowing, cerebral tau hyperphosphorylation, and cerebral glucose hypometabolism. Annual meeting of the International Neuropsychological Society in Denver, CO.
99. Sible, I., Nation, D.A.\* (2020). Blood pressure variability predicts progression to dementia in older adults. Annual meeting of the International Neuropsychological Society in Denver, CO.
98. Blanken, A.E., Jang, J., Ho, J., Nation, D.A.\* (2020). Machine learning-based refinement of mild cognitive impairment in the National Alzheimer's Coordinating Center database. Annual meeting of the International Neuropsychological Society in Denver, CO.
97. Nation, D.A.\* (2020). Neuropsychological decline stratifies dementia risk in cognitively unimpaired and impaired older adults. Annual meeting of the International Neuropsychological Society in Denver, CO.
96. Sweeney, M.D., Montagne, A., Nation, D.A., Sagare, A.P., Harrington M.G., Chui, H.C., Law, M., Toga, A.W., Zlokovic, B.V. (2019). Blood-brain barrier breakdown predicts early cognitive dysfunction in *APOE4* carriers independent of Alzheimer's A $\beta$  and tau. Presented at the 2019 annual Society for Neuroscience meeting in Chicago.
95. Montagne, A., Sweeney, M.D., Sagare, A.P., Nation, D.A., Harrington M.G., Chui, H.C., Law, M., Toga, A.W., Zlokovic, B.V. (2019). Brain imaging of vascular dysfunction as an early biomarker of cognitive decline. Presented at the 2019 annual Society for Neuroscience meeting in Chicago.
94. Nation, D.A.\* (2019). Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. Presented at the 2019 annual Alzheimer's Disease Parkinson's Disease meeting in Lisbon, Portugal.
93. Sible, I.J., Dutt, S., Yew, B., Jang, J.Y., Ho, J.K., Blanken, A., Gaubert, A., Marshall, A., Li, Y., Nation, D.A.\* (2019). Acute blood pressure variability is linked to increased cerebral perfusion independent of mean pressure. Presented at the 2019 Alzheimer's Association International Conference in Los Angeles.
92. Yew, B., Dutt, S., Li, Y., Wang, D.J.J., Nation, D.A.\* (2019). Dynamic cerebrovascular function: a novel neuroimaging approach using paced breathing. Presented at the 2019 Alzheimer's Association International Conference in Los Angeles.
91. Nation, D.A.\*, Han, S.D., Jang, J., Dutt, S., Ho, J.K., Yew, B., Tan, A., McIntosh, E., Blanken, A., Gaubert, A., Marshall, A., Sible, I., Rodgers, K., Li, Y. (2019). Progenitor cell senescence is linked to



neurovascular dysfunction and loss of brain network connectivity. Presented at the 2019 Alzheimer's Association International Conference in Los Angeles.

90. Blanken, A., **Nation, D.A.\*** (2019). Women with higher systolic blood pressure variability are at increased risk of dementia. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

89. Werhane, M.L., Thomas, K.R., Bangen, K.J., Weigand, A.J., Edmonds, E.C., **Nation, D.A.**, Sundermann, E., Bondi, M.W., Delano-Wood, L. (2019). Arterial stiffening moderates the relationship between diabetes and cerebrovascular disease burden in older adults with mild cognitive impairment. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

88. Bangen, K.J., Werhane, M.L., Weigand, A.J., Edmonds, E.C., Delano-Wood, L., Thomas, K.R., **Nation, D.A.**, Evangelista, N.D., Clark, A.L., Bondi, M.W. (2019). Reduced regional cerebral blood flow relates to poorer cognition in older adults with type 2 diabetes. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

87. **Nation, D.A.\***, Tan, A., McIntosh, E., Yew, B., Jang, J., Dutt, S., Blanken, A., Ho, J.K., Rodgers, K., Gaubert, A., Li, Y. (2019). Early endothelial progenitor cell proliferation and senescence is related to better neurovascular and neuropsychological function in older adults. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

86. Yew, B., **Nation, D.A.\*** (2019). Higher cerebrovascular resistance predicts greater tau pathology in older adults. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

85. **Nation, D.A.\***, Ho, J., Dutt, S., Blanken, A. (2019) New method for identifying neuropsychological decline predicts progression to dementia beyond Alzheimer's biomarkers in asymptomatic elderly. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

84. Dutt, S., Li, Y., **Nation, D.A.\*** (2019). Whole brainstem and substructure volumes predict progression to dementia in healthy older adults. Presented at the 2019 annual meeting of the International Neuropsychological Society in New York City.

83. Dutt, S., **Nation, D.A.\*** (2018). Brainstem structural integrity in the progression of Alzheimer's disease. Presented at the annual meeting of the Society for Neuroscience in San Diego, CA 2018.

82. **Nation, D.A.\***, Ho, J.K., Dutt, S. (2018). Neuropsychological decline improves prediction of dementia beyond cognitive diagnosis and AD biomarkers. Presented at the annual meeting of the Society for Neuroscience in San Diego, CA 2018.

81. **Nation, D.A.\***, Tan, A., McIntosh, E., Dutt, S., Ho, J.K., Jang, J., Yew, B., Rodgers, K., Brickman, A., Meier, I., Chang, K., Blanken, A., Gaubert, A. (2018). Circulating angiogenic cell attenuation and senescence correlates with worse memory and greater white matter lesion burden in older adults. Presented at the annual Southern California Alzheimer's Disease Centers Research Symposium 2018.

80. **Nation, D.A.\***, Ho, J.K. (2018). Neuropsychological decline improves prediction of dementia beyond biomarkers or subjective cognitive complaints. Presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.

79. **Nation, D.A.\*** (2018). Cerebrovascular resistance in Alzheimer's disease. Presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.
78. **Nation, D.A.\***, Tan, A., McIntosh, E., Dutt, S., Ho, J.K., Jang, J., Yew, B., Rodgers, K., Brickman, A., Meier, I., Chang, K., Blanken, A., Gaubert, A. (2018). Progenitor reserve hypothesis: a model for discovering protective factors in older adults at risk for dementia. Presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.
77. **Nation, D.A.\***, Peters, R., Iadecola, C., Skoog, I. (2018). Update on hypertension and Alzheimer's disease: From epidemiology to basic science. Co-Chair of a Focused Research Session presented at the annual meeting of the Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment in Chicago 2018.
76. **Nation, D.A.\***, Tan, A., McIntosh, E., Yew, B., Jang, J., Dutt, S., Blanken, A., Ho, J.K., Rodgers, K., Chang, K., Gaubert, A. (2018). Circulating angiogenic cell attenuation and senescence correlates with worse memory and greater white matter lesion burden in older adults. Presented at the annual meeting of the American Academy of Neurology.
75. Yew, B., Dutt, S., Ho, J.K., McIntosh, E.C., Blanken, A.E., Jang, J.Y., Gaubert, A., Nation, D.A.\* (2018). Increased cerebrovascular resistance correlates with worse cognitive performance in older adults with normal cerebral blood flow. Abstract presented at the annual meeting of the International Neuropsychological Society.
74. Lamar, M., Price, C., Rentz, D.M., Au, R., Libon, D., **Nation, D.A.**, Nilsen, W.J. (2018). The present and future of technology in neuropsychological assessment: What is feasible (& fundable) today, tomorrow and in years to come. Abstract presented at the annual meeting of the International Neuropsychological Society.
73. Dutt, S., Yew, B., Ho, J.K., McIntosh, E.C., Blanken, A.E., Jang, J.Y., Bangen, K.J., Gaubert, A., Nation, D.A.\* (2018). Hippocampal Hyperperfusion is Associated with Worse Memory and Executive Function in Older Adults. Abstract presented at the annual meeting of the International Neuropsychological Society.
72. **Nation, D.A.\***, Tan, A., McIntosh, E., Yew, B., Ho, J., Dutt, S., Blanken, A., Jang, J., Rodgers, K., Gaubert, A. (2018). Circulating progenitor cells correlate with memory, posterior cortical thickness and hippocampal perfusion. Abstract presented at the annual meeting of the International Neuropsychological Society.
71. Emrani, S., Libon, D.J., Lamar, M., Price, C.C., Jefferson, A.L., Gifford, K.A., Hohman, T.J., **Nation, D.A.**, Delano-Wood, L., Jak, A., Bangen, K.J., Bondi, M.W., Brickman, A.M., Manly, J., Swenson, R., Au, R., on behalf the Consortium for Clinical and Epidemiological Neuropsychological Data Analysis (CENDA) (2017). Working memory and serial order recall in mild cognitive impairment. Presented at the Alzheimer's Association International Conference in London.
70. **Nation, D.A.\***, Tan, A., McIntosh, E., Yew, B., Ho, J., Dutt, S., Blanken, A., Jang, J., Rodgers, K., Gaubert, A. (2017). Circulating angiogenic cell levels show protective associations with memory function: introducing the vascular reserve hypothesis. Presented at the Alzheimer's Association International Conference in London.

69. Han S.D., Nguyen, C.P., Stricker, N.H, **Nation, D.A.** (2017). Detectable neuropsychological differences in early preclinical Alzheimer's disease: A meta-analysis. Presented at the Alzheimer's Association International Conference in London.
68. Ho, J., **Nation, D.A.\*** (2017). Preserved memory and reduced white matter lesion burden in older adults taking AT<sub>1</sub>-receptor blockers that cross the blood-brain barrier. Presented at the Alzheimer's Association International Conference in London.
67. Yew, B., **Nation, D.A.\*** (2017). Cerebrovascular resistance and cerebral amyloidosis: Effects on cognitive decline, cortical atrophy and progression to dementia. Presented at the Alzheimer's Association International Conference in London.
66. Besser, L. **Nation, D.A.**, Hughes, T., Barlow, N., Kukull, W. (2017). Pulse pressure in late-life and Alzheimer's and cerebrovascular neuropathology. Presented at the Alzheimer's Association International Conference in London.
65. **Nation, D.A.\***, Ho, J. (2017). Independent and interactive effects of cerebral amyloid and tau on neuropsychological decline and structural brain changes in older adults. Presented at the annual meeting of the International Neuropsychological Society.
64. Yew, B., **Nation, D.A.\*** (2017). Elevated cerebrovascular resistance predicts increased amyloidosis, cerebral atrophy, and cognitive decline. Presented at the annual meeting of the International Neuropsychological Society.
63. McIntosh, E., **Nation, D.A.\*** (2017). Untreated diabetes associated with tau pathology and worse cognitive performance in older adults. Presented at the annual meeting of the International Neuropsychological Society.
62. Blanken, A., **Nation, D.A.\*** (2017). Longitudinal neurocognitive profiling of empirically-derived Alzheimer's disease variants. Presented at the annual meeting of the International Neuropsychological Society.
61. Jang, J.Y., Ho, J., Blanken, A., **Nation, D.A.\*** (2017). Affective neuropsychiatric symptoms and Alzheimer's disease biomarkers in non-demented older adults. Presented at the annual meeting of the International Neuropsychological Society.
60. Blanken, A., **Nation, D.A.\*** (2017). Longitudinal neurocognitive profiling of empirically-derived Alzheimer's disease variants. Presented at the annual meeting of the International Neuropsychological Society.
59. Ho, J., **Nation, D.A.\*** (2017). Memory is preserved in older adults taking AT<sub>1</sub>-Receptor blockers. Presented at the annual meeting of the International Neuropsychological Society.
58. Eppig, J., **Nation, D.A.**, Meier, I., Brickman, A.M., Campbell, L., Sanderson-Cimino, M., Bangen, K.J., Delano-Wood, L., Bondi, M.W. (2017). Lobar Microbleeds and APOE status Discriminates Normal Aging from MC. Presented at the annual meeting of the International Neuropsychological Society.
57. Werhane, M., Thomas, K.R., Edmonds, E.C., Bangen, K.J., Clark, A.L., **Nation, D.A.**, Bondi, M.W., Delano-Wood, L. (2017). Elevated pulse pressure and apolipoprotein-E genotype interact to affect functional decline in cognitively normal older adults. Presented at the annual meeting of the International Neuropsychological Society.

56. Bangen, K.J., Clark, A.L., Edmonds, E.C., Werhane, M., Zlatar, Z.Z., **Nation, D.A.**, Bondi, M.W., Delano-Wood, L. (2017). Cerebral blood flow and amyloid- $\beta$  interact to affect memory performance in cognitively normal older adults. Presented at the annual meeting of the International Neuropsychological Society.
55. **Nation, D.A.\***, Ho, J., Yew, B. (2016). Older adults taking AT1-receptor blockers exhibit reduced cerebral amyloid retention. Presented at the annual meeting of the International Neuropsychological Society.
54. Ho, J., **Nation, D.A.\*** (2016). Improved memory and attenuated cerebral amyloid retention in older adults taking AT1-receptor blockers. Presented at the annual meeting of the International Neuropsychological Society.
53. Yew, B., **Nation, D.A.\*** (2016). Cerebrovascular resistance index is associated with cognitive impairment and amyloid deposition in older adults with and without dementia. Presented at the annual meeting of the International Neuropsychological Society.
52. **Nation, D.A.\***, Bondi, M.W., Gayles, E., Delis, D.C. (2016). Cognitive effects of simulated high altitude exposure in military aircrew. Presented at the annual meeting of the International Neuropsychological Society.
51. Blanken, A., Ho, J., **Nation, D.A.\*** (2016). Neurocognitive endophenotypes of preclinical AD and their differential progression to dementia. Presented at the annual meeting of the International Neuropsychological Society.
50. **Nation, D.A.**, Edmonds, E.C., Bangen, K.J., Delano-Wood, L., Salmon, D.P., Galasko, D.R., Bondi, M.W. (2015). Cognitive profiles of tau pathology and amyloidosis in prodromal AD. Abstract presented at the annual meeting of the International Neuropsychological Society.
49. Werhane, M., Himali, J.J., Bangen, K.J., **Nation, D.A.**, Au, R., Beiser, A., McKee, A.C., Stein, T., Seshadri, S., Auerbach, S.H., Wolf, P.A., Delano-Wood, L. (2015). Dissociation of Alzheimer's disease neuropathological burden and vascular pathology on cognition by CDR stage: results from the Framingham brain donation program. Abstract presented at the annual meeting of the International Neuropsychological Society.
48. Bangen, K.J., **Nation, D.A.**, Edmonds, E.C., Delano-Wood, L., Werhane, M., Bondi, M.W. (2015). Impact of cerebrovascular risk on brain amyloid- $\beta$ , cerebral blood flow, and neuropsychological functioning in normal aging and mild cognitive impairment. Abstract presented at the annual meeting of the International Neuropsychological Society.
47. Sweeney, M.D., Sagare, A.P., **Nation, D.A.**, Halliday, M.D., Fagan, A.M., Morris, J.C., Zlokovic, B.V. (2015). Influence of APOE  $\epsilon$ 4 on CSF biomarkers of the neurovascular unit during mild dementia and Alzheimer's disease. Abstract presented at the 26<sup>th</sup> International Symposium on Cerebral Blood Flow, Metabolism and Function and the 12<sup>th</sup> International Conference on Quantification of Brain Function with PET.
46. Montagne, A., Pa, J., **Nation, D.A.**, Barnes, S.R., Ellis, M.R., Kisler, K., Nelson, A.R., Rege, S.V., Sweeney, M.D., Sagare, A.P., Makshanoff, J., Yongang, S., Jacobs, R.E., Toga, A., Harrington, M.G., Liu, C.Y., Law, M., Chui, H.C., Zlokovic, B.V. (2015). Apolipoprotein E4 allele differentially modulates

cerebral blood flow and blood-brain barrier permeability in Alzheimer's disease. Abstract presented at the annual meeting of the Society for Neuroscience.

45. **Nation, D.A.\***, Edmonds, E.C., Bangen, K.J., Delano-Wood, L., Scanlon, B.K., Han, S.D., Edland, S.D., Salmon, D.P., Galasko, D.R., Bondi, M.W. (2015). Elevated pulse pressure is associated with tau-mediated neurodegeneration, cerebral amyloidosis, and progression to dementia in the very-old. Abstract presented at the annual meeting of the International Neuropsychological Society.

44. **Nation, D.A.**, Beiser, A., Delano-Wood, L., Lamar, M., Libon, D.J., Bondi, M.W., Seshadri, S., Wolf, P.A., Au, R. (2014). Midlife pulse pressure predicts future decline in executive and visuospatial abilities. Abstract presented at the annual meeting of the International Neuropsychological Society.

43. Weissberger, G. H., Gollan, T. H., Bondi, M. W., **Nation, D.A.**, Hansen, L.A., Galasko, D., Salmon, D. P. (2014). Neuropsychological and neuropathological profiles of Hispanic older adults with autopsy-confirmed Alzheimer's disease. Abstract presented at the annual meeting of the International Neuropsychological Society.

42. Weissberger, G.H., Delano-Wood, L., **Nation, D.A.**, Bangen, K.,L. Sakata, L., Evangelista, N., Gollan, T.H., Salmon, D.P., & Bondi, M.W. (2014). Elevated pulse pressure is more strongly associated with executive dysfunction in Hispanic older adults. Abstract presented at the annual meeting of the International Neuropsychological Society.

41. Brennan, L., Delano-Wood, L., **Nation, D.A.**, Bondi M.W., Bangen, K.J., Au, R., Salmon, D., Galasko, D.R. (2014). Impact of TBI on clinical and neuropathological findings in Alzheimer's disease: role of APOE genotype. Abstract presented at the annual meeting of the International Neuropsychological Society.

40. Sun, N., **Nation, D.A.**, Delano-Wood, L., Libon, D.J., Bondi, M.W. (2014). Process-based semantic fluency measures improve prediction of diagnostic stability in amnesic MCI. Abstract presented at the annual meeting of the International Neuropsychological Society.

39. Ewald, I.J., Bangen, K.J., Clark, L.R., **Nation, D.A.**, Weissberger, G.H., Jurick, S.M., Dev, S.I., Sanderson, M.E., McCauley, A., and Bondi, M.W. (2014). Reduced cerebral blood flow predicts subsequent cognitive decline in older adults: An arterial spin labeling MRI study. Abstract presented at the annual meeting of the International Neuropsychological Society.

38. **Nation, D.A.**, Abuyo, T., Delano-Wood, L., Jak, A.J., Bondi, M.W. (2014). Correlates of TBI history in aging Veterans presenting with cognitive difficulties: a clinical case series. Abstract presented at the annual meeting of the International Neuropsychological Society.

37. **Nation, D.A.**, Delano-Wood, L., Salmon, D.P., Galasko, D.R., Bondi, M.W. (2014) Pulse pressure and AD biomarkers: modifying influence of age and APOE genotype. Abstract presented at the annual Alzheimer's Association International Conference.

36. Ahmed, S., Brennan, L., Eppig, J., Price, C.C., Lamar, M., Delano-Wood, L., Clark, E., Clark, L., **Nation, D.A.**, Jak, A.J., Au, R., Swenson, R., Bondi, M.W., Libon, D.J. (2014). Visuconstructional impairment in subtypes of Mild Cognitive Impairment. Abstract presented at the annual Alzheimer's Association International Conference.

35. Bangen, K.J., Himali, J.J., Beiser, A.S., Delano-Wood, L., **Nation, D.A.**, Lamar, M., Libon, D.J., Bondi, M.W., Seshadri, S., Wolf, P.A., McKee, A.C., Au, R. (2014). Influence of midlife elevated blood

glucose and APOE genotype on vascular and Alzheimer disease neuropathology. Abstract presented at the annual Alzheimer's Association International Conference.

34. **Nation, D.A.**, Clark, L., Wierenga, C.E., Jak, A.J., Bondi, M.W. (2013). Cortical and subcortical cerebrovascular resistance and in Alzheimer's disease and MCI. Abstract presented at the annual meeting of the International Neuropsychological Society.

33. Bangen, K.J., Beiser, A., Delano-Wood, L., **Nation, D.A.**, Lamar, M., Libon, D.J., Bondi, M.W., Seshadri, S., Wolf, P.A., Au, R. (2013). APOE genotype modifies the relationship between midlife vascular risk factors and later cognitive decline. Abstract presented at the annual meeting of the International Neuropsychological Society.

32. Clark, L.R., **Nation, D.A.**, Wierenga, C.E., Dev, S.I., Shin, D.D., Liu, T.T., & Bondi, M.W. (2013). Medial temporal and posterior cingulate cerebrovascular resistance predicts cognitive decline and diagnostic instability in non-demented older adults. Abstract presented at the annual meeting of the International Neuropsychological Society.

31. Luc, N.K., **Nation, D.A.**, Bondi M.W., Sorg, S.F., Schiehser, D.M., Lanni, E., Jak, A.J., Stricker, N., Salmon DP, & Delano-Wood L.M. (2013). Impairment on Iowa Gambling Task Correlate with Executive Function Measures in Mild Traumatic Brain Injury. Abstract presented at the annual meeting of the International Neuropsychological Society.

30. Hanson, K.L., **Nation, D.A.**, Orff, H., Sorg, S.F., Delano-Wood, L., Schiehser, D.M., Jak, A.J., Lohr, J.B., Delis, D.C. (2013). Cognitive discrepancy-based analysis of chronic military traumatic brain injury suggests mild executive dysfunction. Abstract presented at the annual meeting of the International Neuropsychological Society.

29. Delano-Wood, L., Sorg, S.F., Luc, N.K., Schiehser, D., **Nation, D.A.**, Jacobson, M.W., Lanni, E.B., Delis, D.C., Lohr, J.B., & Bondi, M.W. (2013). Fornix Integrity is Related to Cognition but not Postconcussive Symptoms in Chronic Military Traumatic Brain Injury: A Quantitative Tractography Study. Abstract to be presented at the annual meeting of the International Neuropsychological Society.

28. Sorg, S.F., Delano-Wood, L., Schiehser, D.M., Luc, N., Lanni, E., Jak, A.J., Hanson, K.L., **Nation, D.A.**, Frank, L.R., Lohr, J., & Bondi, M.W. (2013). Processing Speed and Memory Deficits in Veterans with Mild to Moderate TBI: Associations with Anterior White Matter Integrity. Abstract presented at the annual meeting of the International Neuropsychological Society.

27. **Nation, D.A.**, Clark, L.R., Wierenga, C.E., Delano-Wood, L., Dev, S.I., Bangen, K.J., Bondi, M.W. (2013). Cerebrovascular Resistance and Cognitive Decline: Modulating Effects of Age. Abstract presented at the annual meeting of the American Academy of Neurology.

26. **Nation, D.A.**, Bangen, K.J., Delano-Wood, L., Clark, L.R., Bondi, M.W. (2013). Pulse pressure-to-cerebral blood flow ratio: a potential role in the progression of MCI to dementia. Abstract presented at the annual meeting of the Society for Vascular Cognitive and Behavioural Disorders.

25. Bangen, K.J., **Nation, D.A.**, Delano-Wood, L., Weissberger, G.H., Hansen, L.A., Galasko, D.R., Salmon, D.P., Bondi, M.W. (2013). Aggregate But Not Individual Vascular Risk Factors Predict Cerebrovascular Disease in Autopsy-Confirmed Alzheimer's Disease. Abstract presented at the annual meeting of the Society for Vascular Cognitive and Behavioural Disorders.

24. Delano-Wood, L, Clark, LR, Libon, DJ, McDonald, CR, **Nation, DA**, Bangen, KJ, Jak, AJ, Au, R, Salmon, DP, Bondi, MW. (2013). Are Empirically-Derived Subtypes of Mild Cognitive Impairment Diagnoses Consistent with Conventional Subtypes? Abstract presented at the annual meeting of the Society for Vascular Cognitive and Behavioural Disorders.
23. Libon, DJ, Eppig, J, Wicas, G, Brennan, L, Drabick, D, Giovannetti, T, Price, CC, Lamar, M, Jak, AJ, **Nation, D.A.**, Bangen, KJ, Delano-Wood, L, Bondi, MW, Au, R, Swenson, R, Brickman, AM, Manly, J, Penney, DL, Garrett, KD. (2013). Alzheimer/ Vascular Dementia Syndromes: A Cluster Determined Solution. Abstract presented at the annual meeting of the Society for Vascular Cognitive and Behavioural Disorders.
22. **Nation, D.A.**, Bangen, K.J., Delano-Wood, L., Clark, L.R., Bondi, M.W. (2013). Pulse pressure-to-cerebral blood flow ratio: a potential role in the progression of MCI to dementia. Presented at the annual meeting of the Society for Vascular Cognitive and Behavioural Disorders.
21. **Nation, D.A.**, Delano-Wood, L., Jak, A.J., Bondi, M.W. (2012). Pulse pressure predicts cognitive and functional decline in mild cognitive impairment. Abstract presented at the annual meeting of the International Neuropsychological Society.
20. Sun, N., **Nation, D.A.**, Delano-Wood, L., Jak, A.J., Bondi, M.W. (2012). Qualitative aspects of semantic fluency in amnesic and nonamnesic MCI. Abstract presented at the annual meeting of the International Neuropsychological Society.
19. Cabrera, Y., **Nation, D.A.**, Delano-Wood, L., Jak, A.J., Bondi, M.W. (2012). Blood Pressure and cerebrovascular comorbidity in Alzheimer's disease. Abstract presented at the annual meeting of the International Neuropsychological Society.
18. Burrows, C., **Nation, D.A.**, Jak, A.J., Bondi, M.W. (2012). Subjective memory complaints are associated with objective memory impairment in older adults. Abstract presented at the annual meeting of the International Neuropsychological Society.
17. **Nation, D.A.**, Delano-Wood, L., Bangen, K., Wierenga, C.E., Jak, A.J., Salmon, D.P., Delis, D.C., Bondi, M.W. (2011). Pulse pressure, cognition, and vascular pathology in Alzheimer's disease. Abstract presented at the annual meeting of the International Neuropsychological Society.
16. Luc, N., Delano-Wood L., **Nation, D.**, Bangen, K., Lanni, E., Jak, A.J., Stricker, N., Salmon D.P., & Bondi M.W. (2011). The Association Between Stroke Risk Factors and White Matter Lesion Burden in Mild Cognitive Impairment (MCI). Abstract presented at the annual meeting of the International Neuropsychological Society.
15. **Nation, D.A.**, Delano-Wood, L., Wierenga, C.E., Bangen, K., Jak, A.J., Bondi, M.W. (2011). Pulse pressure elevation is associated with lower subcortical structural volume. Abstract presented at the annual VasCog meeting.
14. Delano-Wood, L., Sorg, S.F., Luc, N., **Nation, D.A.**, Bangen, K.J., Eppig, J., Libon, D.J. & Bondi, M.W. (2011). Differential Relationship Between Pulse Pressure and White Matter Integrity by APOE Genotype in Normal Aging and Mild Cognitive Impairment. Abstract presented at the annual VasCog meeting.
13. Lanni, E., Delano-Wood, L., Jak, A.J., Bangen, K.J., McCauley, A., Schiehser, D., Chang, Y-L., Stricker, N.H., **Nation, D.A.**, Wierenga, C. E., Sorg, S., Clark, L., Luc, N., Delis, D.C., & Bondi, M.W.

(2010). Elevated stroke risk predicts lower hippocampal volumes in both normal aging and mild cognitive impairment. *Journal of the International Neuropsychological Society*, Suppl 1.

12. Delano-Wood, L., Chang, Y-L., McCauley, A., Jak, A.J., Bangen, K.J., Schiehser, D., Stricker, N., Wierenga, C.E., **Nation, D.A.**, Lanni, E., Sorg, S., Luc, N., & Bondi, M.W. (2010). Entorhinal cortex thickness differences by apoE genotype in MCI and normal aging, *Journal of the International Neuropsychological Society*, Suppl 1.

11. **Nation, D.A.**, Jak, A.J., Delano-Wood, L., Delis, D.C., Salmon, D., Bondi, M.W. (2010). Pulse pressure and cognitive functioning in older adults, *Journal of the International Neuropsychological Society*, Suppl 1.

10. **Nation, D.A.**, Wierenga, C.E., Delano-Wood, L., Jak, A.J., Salmon, D.P., Delis, D.C., Bondi, M.W. (2010). Elevated pulse pressure is associated with age-related language decline. Abstract presented at the annual meeting of the American Psychological Association.

9. **Nation, D.A.**, Delano-Wood, L., Bangen, K., Wierenga, C.E., Jak, A.J., Salmon, D.P., Delis, D.C., McDonald, C.R, Bondi, M.W. (2010). Pulse pressure, cognition, and cerebrovascular disease in Alzheimer's disease. Abstract presented at the annual meeting of the Society for Neuroscience.

8. **Nation, D.A.**, Szeto, A., Brooks, L., Mendez, A.J., Zaias, J., Schneiderman, N., McCabe, P.M. (2009). The effect of oxytocin on adipose tissue inflammation and atherosclerosis in the apoE<sup>-/-</sup> mouse. *Psychosomatic Medicine*, 71(3), A15.

7. Scanlon, B. K., Katzen, H. L., **Nation, D.A.**, Rodriguez, R. A., Papapetropoulos, S., Singer, C., Gallo, B. V., & Levin, B. E. (2007). Neuropsychological predictors of all-cause mortality in Parkinson's disease. *Journal of the International Neuropsychological Society*, 13, S96-S97.

6. Scanlon, B. K., Katzen, H. L., **Nation, D. A.**, Rodriguez, R. A., Papapetropoulos, S., Ledon, J. A., Capano, A., Wilensky, D., Zitser, J., Singer, C., Gallo, B. V., Jagid, J. A., & Levin, B. E. (2007). Side and symptom of disease onset is related to lifespan in Parkinson's disease. *Movement Disorders*, 22, S171-S171.

5. **Nation, D.A.**, Scanlon, B. K., Katzen, H., Rodriguez, R., Ledon, J., Capano, A. M., Papapetropoulos, S., Singer, C., Jagid, J. R., Russell, A., & Levin, B. (2007). Defining features of subsyndromal depression in Parkinson's disease. *Neurology*, 68(12), A35-A35.

4. **Nation, D.A.**, Katzen, H. L., Rodriguez, R. A., Ledon, J. A., Capano, A., Papapetropoulos, S., Gallo, B. V., Jagid, J. R., & Levin, B. E. (2007). Defining features of subsyndromal depression in Parkinson's disease. *Movement Disorders*, 22, S105-S105.

3. Levin, B. E., Katzen, H., **Nation, D.**, Scanlon, B., Wilensky, D., Papapetropoulos, S., Singer, C., Sengun, C., & Rodriguez, R. (2007). Diagnosing depression in Parkinson's disease: BDI screening versus DSM-IV-TR criteria. *Movement Disorders*, 22, IX-IX.

2. **Nation, D.A.**, Gonzales, J.A., Mendez, A.J., Zaias, J., Szeto, A., Schneiderman, N., & McCabe, P.M. (2005). The effect of social environment on aortic AT<sub>1</sub>-receptor binding, NAD(P)H-oxidase activity, and atherosclerosis in the Watanabe Heritable Hyperlipidemic rabbit. Abstract presented at the annual meeting of the Society of Behavioral Medicine, Boston, MA.



1. Cohen-Zion, M., Leslie, L.K., **Nation, D.**, Ancoli-Israel, S. (2003). Hyperactivity symptoms are related to poor sleep in children with ADHD. *Sleep*, 26, A122-A122.

## **PEER REVIEW**

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### **GRANT REVIEW**

*National Institutes of Health (NIH)*, Center for Scientific Review (CSR), Bethesda, MD

1. Standing Member Scientific Review Group, 2021-2025, Clinical Neuroscience and Neurodegeneration (CNN)
2. Chair (Ad-Hoc) CNN, Oct. meeting, 2022

#### **Additional NIH Special Emphasis Panels and Ad Hoc Review**

1. Special Emphasis Panel, 2021, Brain Injury and Neurovascular Pathologies, ZRG1 BDCN-Y (90) S
2. Special Emphasis Panel, 2021, Cognitive and Neuropathological Signatures of Alzheimer's Disease, Brain Injury and Aging, ZRG1 BDCN-W (02) M
3. NIA – CD1 (2021): Career development facilitating the transition to independence Focus: K99/R00
4. Special Emphasis Panel, 2020, RFA-NS-20-004: Molecular Mechanisms of Blood-Brain Barrier Function and Dysfunction in Alzheimer's Disease and Alzheimer's Related Dementias (AD/ADRD)
5. Special Emphasis Panel, 2020, The Blood-Brain Barrier, Neurovascular System and CNS Therapeutics, ZRG1 MDCN M91
6. Scientific Review Group, 2020, Clinical Neuroscience and Neurodegeneration (CNN)
7. Scientific Review Group, 2019, Acute Brain Injury, ZRG1 BDCN-L (90) S
8. Small Business Panel, 2019, Clinical Neurophysiology, Devices, Neuroprosthetics and Biosensors, ZRG1 ETTN-C(10)B
9. Small Business Panel, 2019, Clinical Neurophysiology, Devices, Neuroprosthetics and Biosensors, ZRG1 ETTN-(19)B

*Alzheimer's Association*, Chicago, IL

1. 2022 Alzheimer's Association Grant Program (AARG): Reviewer and Committee Member
2. 2021 Alzheimer's Association Rapid Program in Dementia (RAPID) Funding Grant Program: Reviewer and Committee Member
3. 2021 Alzheimer's Association Grant Program (AARG): Reviewer and Committee Member
4. 2020 Research Grant Program Study Section: Reviewer and Panelist
5. 2019 New Investigator Research Grant Program: Reviewer
6. 2015 New Investigator Research Grant Program: Reviewer

*California Department of Public Health*, Sacramento, CA  
2017 Alzheimer's Disease Grant Program

*Florida Department of Health*, Sacramento, CA  
2019 Alzheimer's Disease Grant Program

## **INTERNATIONAL GRANT REVIEW**

*Deutsche Forschungsgemeinschaft (DFG), German Research Foundation, Germany*  
2021 Research Program

*Fondation Vaincre Alzheimer, France*  
2020 Alzheimer's Disease Grant Program

*Medical Research Council, United Kingdom (UK) Research and Innovation, Swindon, UK*  
2019 Alzheimer's Disease Grant Program

*Biotechnology and Biological Sciences Research Council (BBSRC), Swindon, UK*  
2018 Alzheimer's Disease Grant Program

## **INSTITUTIONAL GRANT REVIEW**

*University of Rochester*  
2021 Pilot Research Program

*Washington University, Knight Alzheimer's Disease Research Center*  
2019 ADRC Pilot Grant Program

*University of Southern California, Alzheimer's Disease Research Center*  
2016 ADRC Pilot Grant Program

## **EDITORIAL BOARDS**

*Frontiers in Human Neuroscience* – Review Editor for Cognitive Neuroscience since 2021  
Frontiers Media, Lausanne, Switzerland

*Neuropsychology Reviews* – Associate Editor since 2019  
Springer, New York, NY

*Neuropsychology* – Consulting Editor since 2015  
American Psychological Association, Washington, DC

*Journal of Alzheimer's Disease* – Associate Editor since 2015  
IOS Press, Amsterdam, The Netherlands

## **GUEST EDITING**

*Frontiers in Aging Neuroscience* – Guest Editor for 2022 eBook on Practice Effects  
Frontiers Media, Lausanne, Switzerland

## **AD HOC JOURNAL REVIEW**

*Nature Medicine*

Springer Nature, New York, NY

***JAMA Neurology***

The American Medical Association, Chicago, IL

***Molecular Psychiatry***

Springer Nature, New York, NY

***The Journal of Clinical Investigation***

American Society for Clinical Investigation, Ann Arbor, MI

***Brain***

Oxford Journals, Oxford, UK

***Neurology***

American Academy of Neurology, Minneapolis, MN

***Alzheimer's & Dementia***

Alzheimer's Association, Chicago, IL

***Diabetes Care***

American Diabetes Association, Arlington, VA

***Trends in Cognitive Sciences***

Cell Press, Cambridge, MA

***Hypertension***

American Heart Association, Dallas, TX

***Neuropsychopharmacology***

Springer Nature, New York, NY

***Alzheimer's Research & Therapy***

Springer, New York, NY

***Journal of Cerebral Blood Flow & Metabolism***

International Society for Cerebral Blood Flow & Metabolism, Bethesda, MD

***Neurobiology of Aging***

Elsevier, Amsterdam, The Netherlands

***Journal of Alzheimer's Disease***

Elsevier, Amsterdam, The Netherlands

***Journal of Cognitive Neuroscience***

MIT Journals, Boston, MA

***Plos One***

PLOS, San Francisco, CA

***Journal of Clinical Medicine***

MDPI, Basel, Switzerland

***Experimental Gerontology***

Elsevier, Amsterdam, The Netherlands

***Hippocampus***

Wiley Periodicals, Inc., Hoboken, NJ

***Current Alzheimer Research***

Bentham Science Publishers, Emirate of Sharjah, UAE

***Journal of the International Neuropsychological Society***

Cambridge University Press, Cambridge, UK

***Dementia and Geriatric Cognitive Disorders***

Karger Publishers, Basel, Switzerland

***Social Cognitive and Affective Neuroscience***

Oxford Journals, Oxford, UK

***Brain Imaging and Behavior***

Springer, New York, NY

***Frontiers in Neurology***

Frontiers Media SA, Lausanne, Switzerland

***Archives of Clinical Neuropsychology***

Oxford Journals, Oxford, UK

***Brain Sciences***

MDPI, Basel, Switzerland

***Journal of AIDS***

Lippincott Williams & Wilkins, Philadelphia, PA

***The American Journal of Geriatric Psychiatry***

American Association for Geriatric Psychiatry, McLean, VA

***Aging, Neuropsychology and Cognition***

Routledge Taylor & Francis Group, London, UK

**DATA & SAFETY MONITORING BOARDS**

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***Arterial Stiffness, Cognition and Equol (ACE)***, PI: Akira Sekikwa, University of Pittsburgh

DSMB Member since 2022 (Project end date, January, 31, 2027)

**MENTORSHIP**

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<b>Undergraduate Mentor</b> 2013-2016	<b>University of Southern California</b> PSYC 395; PSYC 490; BISC 490; HP 490
<b>Primary Mentor</b> Summer 2012-13	<b>University of California San Diego</b> Stein Institute on Aging HS-STAR Program
<b>Primary Mentor</b> Summer 2011	<b>San Diego State University</b> McNair Minority Scholarship Program

**TEACHING**

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<b>Course Instructor</b> Spring 2022	<b>University of California Irvine</b> Research in Psychological & Behavioral Disorders
<b>Course Instructor</b> Spring 2021-22	<b>University of California Irvine</b> Department of Psychological Science Forensic Neuropsychology
<b>Course Instructor</b> Spring 2022	<b>University of California Irvine</b> Department of Psychological Science Forensic Geropsychology
<b>Course Instructor</b> Spring 2022	<b>University of California Irvine</b> Department of Psychological Science Abnormal Psychology
<b>Course Instructor</b> Spring 2020-21	<b>University of California Irvine</b> Department of Psychological Science Human Neuropsychology
<b>Course Instructor</b> Spring 2020-21	<b>University of California Irvine</b> Department of Psychological Science Clinical Neuroscience
<b>Course Instructor</b> Spring 2020, 2022	<b>University of California Irvine</b> Department of Psychological Science Undergraduate Field Study
<b>Course Instructor</b> Fall 2014 & 2018 Spring 2016-17, 2019	<b>University of Southern California</b> Department of Psychology Psychology 360: Abnormal Psychology
<b>Course Instructor</b> Fall 2013-15; Spring 2017 Fall 2017	<b>University of Southern California</b> Department of Psychology Psychology 515: Clinical Assessment
<b>Course Instructor</b> Spring 2014-16	<b>University of Southern California</b> Department of Psychology Psychology 595B: Practicum in Assessment

<b>Course Instructor</b> Summer 2015-2016	<b>University of Southern California</b> Department of Psychology Psychology 595C: Practicum in Assessment
<b>Course Instructor</b> Spring 2011	<b>University of California San Diego</b> Department of Psychology Psychology 855: Cognitive Assessment Laboratory
<b>Co-Director</b> Fall 2009-2013	<b>University of California San Diego</b> Clinical Neuropsychology Seminar (CNS)
<b>Course Instructor</b> Fall 2005	<b>University of Miami</b> Department of Psychology Psychology 202: Psychobiology

### **CLINICAL TRAINING, CREDENTIALS & POSITIONS**

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<b>ABPP-CN</b> In progress	<b>American Board of Professional Psychology</b> Clinical Neuropsychology Board Certification
<b>Licensure</b> Oct. 2013-Present	<b>Licensed Psychologist, CA (PSY-26061)</b>
<b>Director of Neuropsychology</b> 2019 – Present Clinical Core	<b>UC Irvine, Institute Memory Impairment &amp; Neurological Disorders</b>
<b>Clinical Neuropsychologist</b> Oct. 2013-Present	<b>Private Practice</b> Neuropsychological & Clinical Assessment
<b>Director of Neuropsychology</b> Jan. 2014 – July 2019	<b>Didactic Practicum in Neuropsychological &amp; Clinical Assessment</b> Psychological Services Center Department of Psychology, University of Southern California
<b>Neuropsychology Fellow</b> Sept. 2011 – Aug. 2013	<b>VA San Diego Healthcare System</b> Department of Psychology Cognitive Rehabilitation in Traumatic Brain Injury Clinic Supervisors: Mark W. Bondi, Ph.D. & Amy Jak, Ph.D.
<b>Neuropsychology Fellow</b> July 2009 – Aug. 2013	<b>VA San Diego Healthcare System</b> Department of Psychology/Neuropsychological Assessment Unit Neuropsychological Assessment Unit Supervisor: Mark W. Bondi, Ph.D.
<b>Neuropsychology Fellow</b> July 2010 – Aug. 2013	<b>Neuropsychology Private Practice</b> Supervisor: Dean C. Delis, Ph.D.
<b>Neuropsychology Fellow</b> July 2009 – July 2010	<b>University of California San Diego</b> Neuropsychological Associates





Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment

Member: Professional Interest Area: Cognition

Member: Professional Interest Area: Vascular

Consortium for Epidemiological Neuropsychological Data Analysis

**Previous Memberships**

American Academy of Neurology

American Psychosomatic Society