2021 AAIC Abstracts

- Plasma and CSF biomarkers for Alzheimer's Disease Among Caribbean Hispanics. Lawrence S Honig, MD-PhD1, Min Suk Kang, PhD1, Dolly Reyes-Dumeyer, BS1, Rafael A Lantigua, MD1, Marielba Zerlin-Esteves, PhD1, Angel Piriz, MD1, Brian Criollo, MD1, Zoraida Dominguez, MD2, Patricia Recio, MD3, Diones Rivera, MD3, Martin Medrano, MD4 and Richard Mayeux, MD1 (1)Columbia University Irving Medical Center, New York, NY, USA, (2)Clinica Gregorio Hernandez, Puerta Plata, Dominican Republic, (3)CEDIMAT, Santo Domingo, Dominican Republic, (4)Mother and Teacher Pontifical Catholic University, Santiago, Dominican Republic

- Identification of Genetic Modifiers for Alzheimer disease – the Familial Alzheimer Sequencing (FASe) project. Achal Neupane1,2, Brian Lenny1,2, John P. Budde1,2, Kristy Bergmann1,2, Joanne B. Norton1,2, Jen Gentsch1,2, Fengxian Wang1,2, John C. Morris3, Alison M Goate4,5, Alan E. Renton4, ADSP, NIA-LOAD, NCRAD, Maria Victoria Fernández1,2, Carlos Cruchaga1,2 1 Department of Psychiatry, Washington University School of Medicine, 660 S. Euclid Ave. B8134, St. Louis, MO 63110, USA, 2 Hope Center for Neurological Disorders. Washington University School of Medicine, 660 S. Euclid Ave. B8111, St. Louis, MO 63110, USA , 3 Knight Alzheimer's Disease Research Center, Washington University School of Medicine, St. Louis, MO, USA; Hope Center for Neurological Disorders, Washington University School of Medicine, St. Louis, MO, USA , 4 Department of Neuroscience and Ronald M. Loeb Center for Alzheimer's Disease, Icahn School of Medicine at Mount Sinai, New York, NY, 10029, USA, 5 Department of Neuroscience and Department of Genetics and Genomic Sciences, Mount Sinai School of Medicine, New York, NY, 10029, USA

- Admixture Mapping Identifies Novel Regions Influencing Alzheimer Disease in African Americans. K.L Hamilton-Nelson1, F. Rajabli1, B.W. Kunkle1, G. Tosto2, C. Reitz2, A. Naj3, P. Whitehead1, N.A. Kushch1, G.W. Beecham1,7, GS Byrd5, W.S. Bush4, R. P. Mayeux2, L.A. Farrer6, J.L Haines4, G.D. Schellenberg3, M.A. Pericak-Vance1,7, E.R. Martin1,7, for the Alzheimer's Disease Genetics Consortium (ADGC), and Collaboration on Alzheimer's Disease Research (CADRE) of the Alzheimer's Disease Sequencing Project (ADSP)
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- APOE-stratified genome-wide association analysis identifies novel Alzheimer disease candidate risk loci for African Americans. Brian W. Kunkle, PhD1, Melissa Jean-Francois, MPH1, Kara L. Hamilton-Nelson, MPH1, Mike Schmidt PhD1, Adam Naj, PhD2 Alzheimer's Disease Genetics Consortium (ADGC), Eden R. Martin, PhD1, Jeffery M. Vance, MD, PhD1, Michael L. Cuccaro, PhD1, Farid Rajabli, PhD1 Gyungah Jun, PhD2, Li-San Wang5, Lindsay A. Farrer, PhD2, Jonathan L. Haines, PhD3, Goldie S. Byrd, PhD4, Gerard D. Schellenberg, PhD5, Richard Mayeux, MD, MSc6, Gary Beecham, PhD1, Margaret A. Pericak-Vance, PhD1, Christiane Reitz, MD, PhD6
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- Multiple Viruses Detected in Human DNA are Associated with Alzheimer Disease Risk. Marlene Tejeda1, John Farrell1, Congcong Zhu1, Jonathan L. Haines2, Li-San Wang3, Gerard Schellenberg4, Margaret A. Pericak-Vance5,6, William S. Bush2, Eden R. Martin5,6, Lindsay A. Farrer1, Richard Sherva1
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- African locus reduces the effect of *ApoE ε4* allele in Alzheimer's disease. Farid Rajabli, PhD1, Brian W. Kunkle, PhD, MPH1,2, Christiane Reitz, MD PhD3, Hugh C Hendrie, MB, ChB4,Olusegun Baiyewu, MBBS5, Adesola Ogunniyi, MBChB5, Sujuan Gao, PhD6, Nicholas A. Kushch1, Kara L. Hamilton-Nelson, MPH1, Alzheimer's Disease Genetics Consortium (ADGC)7, The Alzheimer's Disease Sequencing Project (ADSP)7, Gary W. Beecham, PhD1,2, Margaret A. Pericak-Vance, Ph.D.1,8 and Jeffery M. Vance, M.D., Ph.D.1,8 (1)John P. Hussman Institute for Human Genomics, University of Miami Miller School of Medicine, Miami, FL, USA, (2)Dr. John T. Macdonald Foundation Department of Human Genetics, Miller School of Medicine, Miami, FL, USA, (3)Columbia University, Depts. of Neurology and Epidemiology, New York, NY, USA, (4)Department of Psychiatry, Indiana University School of Medicine, Indianapolis, IN, USA,(5)College of Medicine, University of Ibadan, Ibadan, Nigeria, (6)Department of Biostatistics, Indiana University School of Medicine, Indianapolis, IN, USA, (7)Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, (8)Dr. John T. Macdonald Foundation Department of Human Genetics, University of Miami Miller School of Medicine, Miami, FL, USA

- New ADRD susceptibility loci: NTM for Tau pathology & UNC5C for cerebral amyloid angiopathy. Charles White, Hyun-sik Yang, Anita & CHARGE team, Julie Schneider, David Bennett, Philip De Jager

- Impact of Structural Variation in ADSP. Fritz J Sedlazeck, PhD1, Adam C English, PhD2, Kim C. Worley, PhD1, Richard A Gibbs, PhD1 and Anita L. Destefano, PhD3,4,5,6 (1)Baylor College of Medicine, Houston, TX, USA, (2)Adam.English@bcm.edu, Houston, TX, USA, (3)Boston University School of Public Health, Boston, MA, USA, (4)Boston University and the NHLBI's Framingham Heart Study, Boston, MA, USA, (5)Boston University School of Medicine, Boston, MA, USA, (6)The National Heart, Lung, and Blood Institute's Framingham Heart Study, Framingham, MA, USA

- Whole genome sequencing analysis of cognitively Wellderly individuals identifies potential protective genetic variants for Alzheimer's disease. Gina M Peloso, Morgan A. Rosser, Joshua C. Bis, Myriam Fornage, Eric Boerwinkle, Claudia L. Satizabal, Bruce Psaty, Oscar Lopez, Thomas H. Mosley, Yanbing Wang, Josée Dupuis, Anita DeStefano, Sudha Seshadri, on behalf of the TOPMed Neurocognitive Working Group
- Identifying Multimodal Imaging-Driven Subtypes in Mild Cognitive Impairment using Deep Multiview Learning. Yixue Feng, Mansu Kim, Kefei Liu, Andrew J. Saykin, Jason H. Moore, Qi Long, Li Shen
- Identifying precision AD biomarkers with varying prognosis effects in genetics driven subpopulations. Brian Lee, Junwen Wang, Li Shen, and for the ADNI
- Identifying imaging genetics biomarkers in Alzheimer's disease via integrating graph convolutional neural network and canonical correlation analysis. Mansu Kim, Xiaohui Yao, Andrew J Saykin, Jason H Moore, Qi Long, Li Shen
- Analysis of rate of change in quantitative traits for identifying biomarker-mediated genetic effects on MCI and AD. Yinuo Zhang, Brian N Lee, Li Shen, for the ADNI
- Prediction of MCI-to-AD progression via integration of genetic data and longitudinal biomarkers, imaging and clinical data. Garam Lee, Kwangsik Nho, Erica Suh, Mansu Kim, Li Shen, Kyung-Ah Sohn, Dokyoon Kim
- Novel polygenic risk score approach with transcriptome-based weighting for genetic risk prediction of late-onset Alzheimer's disease. Sang-Hyuk Jung, Kwangsik Nho, Li Shen, Dokyoon Kim, Hong-Hee Won, for the Alzheimer's Disease Neuroimaging Initiative
- Alzheimer's Disease Heterogeneity Explained by Polygenic Risk Scores based on Brain Transcriptomic Profiles. Jaeyoon Chung, Rebecca Panitch, Junming Hu, Congcong Zhu, Jesse Mez, Lindsay A Farrer, Thor D. Stein, Paul K. Crane, Kwangsik Nho, Gyungah R Jun
- Disentangling brain heterogeneity via semi-supervised deep-learning and MRI: application to dimensional representations of Alzheimer's Disease. Zhijian Yang*, Ilya M. Nasrallah*, Haochang Shou, Junhao Wen, Jimit Doshi,

Mohamad Habes, Guray Erus, Ahmed Abdulkadir, Susan Resnick, David Wolk, Christos Davatzikos

- Cognitive assessments in ADNI: Lessons learned from the ADNI Psychometrics project. Paul K. Crane, Seo-Eun Choi, Laura E. Gibbons, Shubhabrata Mukherjee, Ruoyi Zhu, Phoebe Scollard, Michael Lee, Emily Trittschuh, Andrew Saykin, Jesse Mez, Dan Mungas, Chun Wang, for the ADNI Psychometrics investigators

- Copy Number Variation Identification and Association Study on 3,928 Alzheimer's Disease Whole Genome Sequencing Data from the Alzheimer's Disease Sequencing Project (ADSP). Wan-Ping Lee1,2, Mitchell Conery3, Otto Valladares1,2, Yi-Fan Chou1,2, Yuk Yee Leung2,4,5, Amanda Kuzma2,4, Amanda Brucker6, Albert A Tucci7, Wenbin Lu6, Gerard D Schellenberg4,5, Li-San Wang2,4,5 and Jung-Ying Tzeng6
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- NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS): 2021 Update. Heather Issen12, Amanda Kuzma12, Otto Valladares12, Emily Greenfest-Allen24, Conor Klamann12, Prabhakaran Gangadharan12, Zivadin Katanic12, Andrew Wilk12, Yi Zhao12, Liming Qu12, Michelle K Moon12, Alexis Lerro12, Joseph Manuel12, Peter Keskinen12, Carlos Thomas12, Shin-Yi Chou6, Wan-Ping Lee12, Yuk Yee Leung123, Adam Naj15, Christian J. Stoeckert Jr. 124, Gerard D. Schellenberg13, Li-San Wang123
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- The Alzheimer's Disease Sequencing Project – Follow Up Study (ADSP-FUS): increasing ethnic diversity in Alzheimer's genetics research with addition of potential new cohorts. Pedro Ramon Mena, MD1, Brian W. Kunkle, PhD, MPH1, Kelley Faber, MS2, Larry D. Adams, BA1, Jovita Inciute, MS1, Patrice Whitehead, B.S1., Tatiana M. Foroud, PhD2, Dolly Reyes-Dumeyer, B.S3, Amanda B Kuzma, MS4, Adam Naj, PhD4, Eden R. Martin, PhD1, Clifton L. Dalgard, PhD, CLS5, Gerard D Schellenberg, PhD4, Li-San Wang, PhD4, Richard Mayeux, MD3, Badri N Vardarajan, PhD3 Jeffery M. Vance, MD, PhD1, Michael L. Cuccaro, PhD1, and Margaret A. Pericak-Vance, PhD1
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- Genome-wide Association and Multi-Omics Studies Identify MGMT as a Novel Risk Gene for Alzheimer Disease Among Women. Jaeyoon Chung1, Anjali Das6, Jesse Mez2, Xinyu Sun1, Yi-Fan Chou11, Yuk Yee Leung11, Sam Thiagalingam1, Xiaoling Zhang1, Gyungah R Jun1,3,4, Brian Kunkle8, Eden R Martin8, Margaret Pericak-Vance8, Richard Mayeux9, Jonathan L. Haines10, Gerard Schellenberg11, Kathryn L. Lunetta4, Jayant M. Pinto7, Li-San Wang11, Carole Ober6, Lindsay A Farrer1–5
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- A meta-analysis of genome-wide association studies identifies new genetic loci associated with all-cause and vascular dementia. Bernard Fongang1, Galit Weinstein2, Alexander Guðjónsson4, Aniket Mishra5, Joshua C Bis6, Yang Qiong7, Bendik Winsvold8, Muralidharan Sargurupremraj1, Fan Kang-Hsien9, Kamboh M. Ilyas9, Gloria Li10, Jingyun Yang11, Saima Hilal 12,20, Claudia Satizabal1, Xueqiu Jian1, M.J. Knol14, Maria Pina Concas 16, Girotto Giorgia16, Moeen Riaz17, Paul Lacaze17, Agustin Ruiz18, Adam C Naj19, Gerard



D. Schellenberg19, Patrick G. Kehoe21, Sven J. van der Lee22, Olivia Skrobot21,Vilmundur Guðnason4, Lopez, Oscar6, Haan, Mary13, Ingunn Bosnes8, Carole Dufouil15, Mary Ganguli9, Ching-Lung Cheung10, David A Bennett11, Jean-Charles Lambert23, Christopher Chen12, Arfan M. Ikram14, Stephanie Debette5, Myriam Fornage3, Sudha Seshadri1, for the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE)
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- Deep learning based genome-wide association analysis in Alzheimer's disease. Jo T, Nho K, Saykin A.

- Polygenic risk score for general cognitive function is associated with measures of cognition in South Asians from the LASI-DAD Study. Wei Zhao,1 Jennifer A. Smith,1 Miao Yu,1 Priya Moorjani,2 Andrea Ganna,3 A. B. Dey,4 Jinkook Lee,5 Sharon L.R. Kardia1
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- Common and rare variants in topologically associated domains for cognitive function in South Asians from the LASI-DAD Study. Jennifer A. Smith,1 Wei Zhao,1 Miao Yu,1 Priya Moorjani,2 Andrea Ganna,3 A. B. Dey,4 Jinkook Lee,5 Sharon L.R. Kardia1
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- Multi-tissue proteomic profiling for genetically defined Alzheimer disease cases. Yun Ju Sung1,2, Chengran Yang1, Adam Suhy1, Herve Rhinn3, Joanne Norton1, Fengxian Wang1, Joseph Bradley1, Fabiana Farias1, Bruno A. Benitez1, Oscar Harari1, Carlos Cruchaga1,4
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- Using Amyloid PET as a biomarker to detect progression of early Alzheimer's disease. Muhammad Ali1,2, Fabiana H G Farias1,2, Yun Ju Sung1,2, Fengxian Wang1,2, Carlos Cruchaga1,2,3,4,5,*
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- Genome-wide scan of Alzheimer disease cohort identifies genetic loci associated with human brain metabolite levels. Ciyang Wang, Fabiana H.G. Farias, Yun Ju Sung, Brenna C Novotny, Chengran Yang, Fengxian Wang, Victoria Fernandez, Oscar Harari, Carlos Cruchaga

- Profiling the metabolic landscape of AD. Brenna Kizer, Victoria Fernandez, John Budde, Kristy Bergmann, John C. Morris, Randall J Bateman, Celeste M Karch, Dominantly Inherited Alzheimer Network, Bruno Benitez, Carlos Cruchaga, Oscar Harari

- Multi-omics data integration reveals clinically meaningful molecular profiles of Alzheimer Disease. Abdallah M. Eteleeb1,2 Brenna Kizer1,2, John C. Morris3,5,6, Randall J. Bateman3,5,6, Richard J. Perrin4,5,6, Celeste M. Karch1,2,5,6, Carlos Cruchaga1,2,5,6, Bruno A. Benitez1,2,5,6, Oscar Harari1,2,5,6# and Dominantly Inherited Alzheimer Network (DIAN)
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- Functional exploration of AGFG2, a novel player in the pathology of Alzheimer Disease. Victoria Fernandez, John P Budde, Eliza Dhungel, Abdallah Eteleeb, Fengxian Wang, Rita Martinez, Jacob Marsh, Joanne Norton, Jen Gentsch, John C. Morris, Randall J. Bateman, Laura Swisher, Eric McDade, Richard J. Perrin, Oscar Harari, Bruno Benitez, Celeste Karch, Carlos Cruchaga

- An enrichment of rare variants and the lysosomal pathways are important contributors to early onset Alzheimer Disease. Maria Victoria Fernandez, PhD1,2, Cyril P Pottier, PhD3, John P. Budde, BS1,2, Fengxian Wang, PhD1, Joanne Norton1,2, Jen Gentsch1,2, John C. Morris, MD1,2,4, Alison M. Goate, DPhil5,6, Gary W. Beecham, PhD7,8, Christiane Reitz, MD PhD9,10, Nilufer Ertekin-Taner, MD, PhD11, Dennis W Dickson, MD11, Neill R. Graff-Radford, MD11, Bradley F. Boeve, MD12, Ronald C. Petersen, MD, PhD13, John Kauwe, PhD14, Henne Holstege, PhD15,16, Marc Hulsman, PhD16,17,18, Céline Bellenguez, PhD19, Jean-charles Lambert, PhD19,20, Camille Charbonnier, PhD21, ADES Consortia22, The Alzheimer's Disease Sequencing Project (ADSP)23, Gaël Nicolas, MD, PhD22, Rosa Rademakers, PhD24 and Carlos Cruchaga, PhD1,2,25
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- Single nucleus RNA-sequencing of GWAS loci variant carriers elucidates cell-types and transcriptional profile alterations associated with Alzheimer Disease. Logan Brase, Jorge Del-Aguila, Yaoyi Dai, Shih-Feng You, Carolina Soriano-Tarraga, Fabiana Farias, Dominantly Inherited Alzheimer Network, Bruno Benitez, Celeste Karch, Carlos Cruchaga and Oscar Harari

- Genome-wide DNA methylation analysis of Autosomal Dominantly inherited and sporadic Alzheimer disease brains. Carolina Soriano-Tárraga, Fabiana Geraldo Farias, John Budde, Curtis Ebl, Joanne Norton, Jen Gentsch, John Morris, Randall J. Bateman, Laura Swisher, Eric McDade, Richard J. Perrin, Carlos Cruchaga, Oscar Harari