ARIZONA ALZHEIMER'S CONSORTIUM

RESEARCH POSTER PRESENTATIONS

Basic

1. **Medroxyprogesterone acetate, the most commonly used hormone therapy progestin, impairs memory and alters the GABAergic system in the rodent model.** Braden BB, Talboom J, Simard A, Lukas RJ, Zay C, Prokai L, Acosta J, Engler E, Bimonte-Nelson HA. Arizona State University; Barrow Neurological Institute; University of North Texas; Arizona Alzheimer's Consortium.

2. **Androstenedione impairs spatial reference and working memory in middle-aged surgically menopausal rats.** Camp BW, Villa S, Gerson, J, Bimonte-Nelson, HA. Arizona State University; Arizona Alzheimer's Consortium.

3. **Oral Premarin treatment dose- and task- dependently influences memory in middle-aged surgically menopausal rats**. Engler-Chiurazzi E, Scheldrup M, Ciciolla L, Braden BB, Acosta J, Talboom J, Demers L, Prokai L, Baxter L, Bimonte-Nelson HA. Arizona State University; Pennsylvania State College of Medicine; University of North Texas; Barrow Neurological Institute; Arizona Alzheimer's Consortium.

4. **Concept for a brain tissue screening procedure to ensure prion exclusion.** Hartmann, EM. Arizona State University; Arizona Alzheimer's Consortium.

5. **Isolating ScFv against natural beta amyloid oligomers-a novel therapeutic strategy for Alzheimer's disease.** Kasturirangan S, Boddapati S, Reasoner T, Sierks M. Arizona State University; Arizona Alzheimer's Consortium.

6. **A MULTIMODAL BIOCHIP TO STUDY CONTROLLED GENE DELIVERY TO NEURONS.** Sridharan A, Patel C, Muthuswamy J. Arizona State University; Arizona Alzheimer's Consortium.

7. **$\Delta^{8,9}$-Dehydroestrone, a component of premarin, enhances spatial memory and alters cholinergic nicotinic receptor expression.** Talboom JS, Engler-Chiurazzi EB, Whiteaker P, Simard AR, Lukas R, Acosta JI, Cosand M, Prokai L, Bimonte-Nelson HA**.** Arizona State University; Barrow Neurological Institute; University of North Texas; Arizona Alzheimer's Consortium.

8. **Polynutrient dietary supplementation corrects brain mitochondrial biomarkers and improves cognition in the 3XTG mouse model of Alzheimer's disease.** Wolf AB, Braden BB, Hatch M, Young N, Enger E, Garcia A, Bowman B, Kusne Y, Lombardo NE, Bimonte-Nelson H, Valla J. Barrow Neurological Institute; St. Joseph's Hospital and Medical Center; Arizona State University; Boston University School of Medicine; Veterans Administration Medical Center; Arizona Alzheimer's Consortium.

9. **Age-related cognitive impairment in APOE transgenic mice.** Yin J, Lin H, Marsh ST, Shi J. Barrow Neurological Institute; St. Joseph's Hospital and Medical Center; Dongzhimeng Hospital Beijing University of Chinese Medicine; Arizona Alzheimer's Consortium.

10. **Early and long term administration of 17β- estradiol and genistein prevent against Aβ plaque formation in APP transgenic mouse lacking endogenous estrogen synthesis**. Cao P, Yue X, Lancaster T, West-Liu M , McAllister C, Li R. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

11. **Role of complement receptor 1 (CR1) in Alzheimer's disease.** Grover A, Mastroeni D, Whiteside C, Delvaux E, Huentelman M, Leonard B, Coleman PD, Rogers J. Banner Sun Health Research Institute; Translational Genomics Research Institute; Arizona Alzheimer's Consortium.

12. **Novel mechanisms of neurogenesis in Alzheimer's mouse model.** He P, Staufenbiel M, Shen Y. Banner Sun Health Research Institute; Novartis Pharm Ltd., Basel, Switzerland; Arizona Alzheimer's Consortium.

13. **Intracranial atherosclerosis as a contributing factor to Alzheimer's disease dementia.** Kokjohn TA, Maarouf CL, Sabbagh MN, Belohlavek M, Garami Z, Beach TG, Roher AE. Banner Sun Health Research Institute; Midwestern University; Mayo Clinic Arizona; Methodist Hospital, Houston; Arizona Alzheimer's Consortium.

14. **Depletion of estrogen receptor-β contributes to Alzheimer's disease pathogenesis in females by impairing mitochondrial function.** Long J, Bowers A, McAllister C, Li R. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

15. **Receptor for advanced glycation end products in Alzheimer's disease: from brain to blood.** Lue L-F, Zhong Z, Moses GSD, Walker DG. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

16. **Microglia activation in heart failure after myocardial infarction in rats.** Mutlu N, Gaballa M. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

17. **Anti-stroke herbal medicine for Alzheimer's disease.** Nural HF, Hua Q, Li R, Li P, Shen Y. Banner Sun Health Research Institute; Beijing University of Chinese Medicine; Arizona Alzheimer's Consortium.

18. **Long-term low-dose dietary cholesterol administration on tau levels in blood and brain, and AT8 staining in the brain.** Sparks DL, Martin T, Ziolkowski. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

19. **Productive variables in females might alter cognitive function during age – studies of spatial memory in female mice.** Walker A, Bowers A, Li R. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

20. **Regulation of anti-inflammatory molecules CD200, CD200R, and suppressors of cytokine signaling in human neurons and microglia.** Walker DG, Lue L-F. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

21. **Inhibition of MARCKS phosphorylation improves working memory.** Allen AN, Talboom JS, Bimonte-Nelson HA, Broughton NS, Hackett NJ, Scheldrup MR, Engler-Chiurazzi EB, Huentelman MJ. Translational Genomics Research Institute; Arizona State University; Arizona Alzheimer's Consortium.

22. **Identification of multiple novel regulators of Alzheimer's disease (AD) related tau hyperphosphorylation.** Frost D, Robeson RH, Brautigam GR, Azorsa D, Dickey C, Beaudry C, Meechovet B, Basu G, Holz D, Hernandez J, Bisanz K, Gwinn L, Grover A, Rogers J, Reiman EM, Hutton M, Stephan DA, Mousses S, Dunckley T. Translational Genomics Research Institute; University of South Florida; Banner Sun Health Research Institute; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium.

23. **Induction of pluripotent stem cells from autopsy-derived fibroblasts.** Hjelm BE, Sue LI, Beach TG, Van Keuren-Jensen KR, Huentelman MJ, Craig DW. Translational Genomics Research Institute; Arizona State University; Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

24. **P62(SQSTM1) Plays a significant role in regulating the degradation of tau protein.** McDonald B, Looyenga B, Robeson R, Meechovet B, Frost D, MacKeigan J, Dunckley T. Translational Genomics Research Institute; Van Andel Research Institute; Arizona Alzheimer's Consortium.

25. **Role of EIF2AK2 and DYRK1A in the hyperphosphorylation of tau.** Meechoovet B, Robeson R, Frost D, McDonald B, Valla J, Dunckley T. Translational Genomics Research Institute; Barrow Neurological Institute; Arizona Alzheimer's Consortium.

26. **Age effects on neuronal activity in the perirhinal cortex.** Burke S, Maurer AP, Nematollahi S, Wallace JL, Uprety A, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

27. **Maximal electro-convulsive shock induced D-FOS mRNA expression is reduced in the hippocampus of aged rats.** Chawla MK, Penner MR, Olson K, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

28. **High-resolution anamorphic adaptive SPECT imaging with silicon double-sided strip detectors.** Durko, HL, Barrett, HH, Furenlid, LR. University of Arizona; Arizona Alzheimer's Consortium.

29. **Pre-activation of hippocampal CA1 activity patterns is reduced in old rats.** Glatting AF, Schimanski LA, Broersma BM, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium

30. **Characterization of behaviorally-induced ARC expression in ventral tegmental neurons during aging.** Hoang LT, Wann EG, Fellous J-M, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

31. **FastSPECT III: a third generation high-resolution dynamic SPECT imager.** Miller BW, Moore SK, Barber HB, Trouard TP, Barrett HH, Furenlid LR. University of Arizona; Arizona Alzheimer's Consortium.

32. **DNA methylation of ZIF268 is not dynamically regulated within the aged hippocampus following spatial behavior.** Penner MR, Roth TL, Lubin FD, Roth ED, Hoang LT, Sweatt JD, Barnes CA. University of Arizona; University of Alabama Birmingham; Arizona Alzheimer's Consortium.

33. **Age differences in performance of appetitive instrumental tasks.** Samson RD, Lipa P, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

34. **Hippocampal CA1 firing rates vary with spatial training and place field stability in young and old rats.** Schimanski LA, Broersma BM, Lipa P, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

35. **Hippocampal CA1 place representations stabilize as young and old rats gain experience in a novel environment.** Schimanski LA, Broersma BM, Lipa P, Barnes CA. University of Arizona; Arizona Alzheimer's Consortium.

36. **$A\beta_{1-42}$ and the endocytosis of AMPA-type glutamate receptors in cultured hippocampal neurons.** St. John PA. University of Arizona; Arizona Alzheimer's Consortium.

37. **Longitudinal magnetic resonance spectroscopy and T2 measurements in a mouse model of Niemann-Pick Type C disease.** Totenhagen J, Borbon I, Yoshimaru E, Howison C, Erickson RP, Trouard TP. University of Arizona; Arizona Alzheimer's Consortium.

Clinical

38. **The cognitive effects of CEE depend on whether menopause etiology is transitional or surgical.** Acosta JI, Mennenga S, Mayer LP, Braden BB, Bimonte-Nelson HA. Arizona State University; Northern Arizona University; Arizona Alzheimer's Consortium.

39. **The effect of a sleep hygiene program in rehabilitation centers with Alzheimer's disease patients.** Allen AM, Uriri-Glover JT, Keller C. Arizona State University; Arizona Alzheimer's Consortium.

40. **Service barriers among Chinese American Alzheimer's family caregivers: self-reports vs. perspectives from professionals.** Darden A, Sun F. Arizona State University; Arizona Alzheimer's Consortium.

41. **All in the family: legal and ethical duties for informed consent and disclosure of genetic risk information to families of Alzheimer's research subjects.** Gulley LM, Marchant GE. Arizona State University; Arizona Alzheimer's Consortium.

42. **Structured total least squares for volumes of distribution estimation in PET imaging.** Guo, H, Renaut R, Chen K, Reiman EM. Arizona State University; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium.

43. **Mining adverse reactions in user posts to health-related websites.** Leaman R, Wojtulewicz L, Sullivan R, Skariah A, Yang J, Gonzalez G. Arizona State University; Arizona Alzheimer's Consortium.

44. **Uncovering novel genes in Alzheimer's disease: sensitivity comparison of data sources.** Lee J, Gonzalez G. Arizona State University; Arizona Alzheimer's Consortium.

45. **Immunosignature of Alzheimer's disease.** Restrepo L, Stafford P, Magee DM, Johnston SA. Arizona State University; Arizona Alzheimer's Consortium.

46. **Alzheimer biomedical data warehouse using 12B2 platform.** Yang J, Sullivan R, Mukund K, Wilkinson W, Skariah A, Gonzalez G. Arizona State University; Arizona Alzheimer's Consortium.

47. **Twelve-month whole-brain atrophy rates and estimatged power to detect Alzheimer's disease-slowing treatment effects in multi-center trials using iterative principal component analysis: preliminary findings from the Alzheimer's Disease Neuroimaging Initiative.** Ayutyanont N, Chen K, Reschke C, Langbaum JBS, Fleisher A, Kong L, Liu X, Lee W, Huan Z, Reiman EM. Arizona Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona State University; Beijing Normal University; University of Arizona; Translational Genomics Research Institute; Arizona Alzheimer's Consortium.

48. **Use of an Alzheimer's diseasse-related hypometabolic convergence index to predict progression from mild cognitive impairment to Alzheimer's dementia.** Chen K, Ayutyanont N, Langbaum JBS, Fleisher A, Reschke C, Lee W, Ziaofen L, Alexander GE, Bandy D, Foster NL, Weiner MW, Koeppe RA, Thompson PM, Jaguest WJ, Reiman EM, Alzheimer's Disease Neuroimaging Initiative. Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona State University; Evelyn F. McKnight Brain Institute; University of Arizona; University of Utah, University of California, San Francisco; University of Michigan; University of California, Berkeley; Translational Genomics Research Institute; University of California, Los Angeles; Arizona Alzheimer's Consortium.

49. **Association between an Alzheimer's disease-related hypometabolic convergence index in cognitively normal late-middle-aged people and three levels of genetic risk for late-onset Alzheimer's disease.** Fleisher A, Chen K, Ayutyanont N, Auttawut R, Langbaum JBS, Lee W, Liu X, Bandy D, Reeder SQ, Alexander GE, Caselli RJ, Reiman EM, Alzheimer's Disease Neuroimaging Initiative. Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona State University; Evelyn F. McKnight Brain Institute; University of Arizona; University of California, San Diego; Mayo Clinic Arizona; Translational Genomica Research Institute; Arizona Alzheimer's Consortium.

50. **Association between cerebral patterns of fibrillar amyloid-beta burden and glucose hypometabolism in cognitively normal older adults at three levels of genetic risk for late-onset Alzheimer's disease.** Fleisher A, Chen K, Liu X, Ayutyanont N, langbaum JBS, Lee W, Reeder SA, Alexander GE, Bandy D, Caselli RJ, Reiman EM. Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona State University; Evelyn F. McKnight Brain Institute; University of Arizona; University of California, San Diego; Translational Genomics Research Institute; Mayo Clinic Arizona; Arizona Alzheimer's Consortium.

51. **Neuroimaging biomarkers track brain degeneration in 676 subjects with Alzheimer's disease, mild cognitive impairment, and healthy controls.** Hua X, Lee S, Leo AD, Yanovsky I, Parikshak N, Chou Y-Y, Ho AJ, Gutman B, Toga AW, Jack Jr. CR, Bernstein MA, Reiman EM, Harvey DJ, Kornak J, Schuff N, Alexander GE, Weiner MW, Thompson PM, Alzheimer's Disease Neuroimaging Initiative. University of California, Los Angeles; California Institute of Technology; Mayo Clinic Rochester; Banner Alzheimer's Institute; University of Arizona; University of California, Davis; University of California, San Francisco; University of Arizona; Arizona Alzheimer's Consortium.

52. **Association between pulse pressure and fibrillar amyloid-beta burden in cognitively normal late-middle-aged people at three levels of genetic risk for Alzheimer's disease.** Langbaum JBS, Chen K, Liu X, Fleisher AS, Reeder SA, Bandy D, Alexander GE, Caselli RJ, Reiman EM. Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona State University; University of California, San Diego; University of Arizona; Mayo Clinic Arizona; Translational Genomics Research Institute; Arizona Alzheimer's Consortium.

53. **Prediction of behavioral scores based on hemispheric cortical surface maps of FDDNP.** Protas H, Huang S-C, Kepe V, Ercoli L, Thompson P, Small GW, Barrio J. University of California, Los Angeles; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium.

54. **Is there an increased risk of death from natural causes in young adult Apolipoprotein E E4 carriers?** Yaari R, Langbaum JBS, Corneveaux JJ, Huentelman MJ, Beach TG, Roher A, Valla J, Caselli RJ, Reiman EM. Banner Alzheimer's Institute; Translational Genomics Research Institute; Banner Sun Health Research Institute; Barrow Neurological Institute, Mayo Clinic Arizona; Arizona Alzheimer's Consortium.

55. **Hippocampal gray matter volume declines at a faster rate in cognitively normal APOE E4 carriers.** Baxter LC, Liu S, Chen K, Caselli RJ. Barrow Neurological Institute; Banner Alzheimer's Institute; May Clinic Arizona; Arizona Alzheimer's Consortium.

56. **The cognitive reserve reflected in sex differences is not altered by APOE genotype.** Baxter LC, Dassel K, Dueck A, Caselli RJ. Barrow Neurological Institute; Mayo Clinic Arizona; Arizona Alzheimer's Consortium.

57. **Are Alzheimer's patients healthier? A clinicopathological study.** Beach TG, Maarouf CL, Brooks RC, Shirohi SW, Daugs ID, Sue LI, Vedders LJ, Lue LF, Walker DG, Sabbach MN, roher AE. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

58. **Multi-organ distribution of phosphorylated alpha-synuclein histopathology in subjects with lewy body disorders.** Beach TG, Adler CH, Sue LI, Vedders L, Lue LF, White CL, Akiyama H, Caviness JN, Shill HA, Sabbagh MN, Walker DG. Banner Sun Health Research Institute; Mayo Clinic Arizona; University of Texas Southwestern Medical Center; Tokyo Institute of Psychiatry; Arizona Alzheimer's Consortium.

59. **RNA quality and gene expression in human brain tissue: effects of postmortem interval and freeze-thaw cycles.** Birdsill AC, Walker DG, Lue LF, Beach TG, Sue LI, Beach TG. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

60. **Frequency of Alzheimer's disease pathology at autopsy in patients with clinical normal pressure hydrocephalus.** Cabral D, Beach TG, Vedders L, Sue LI, Jacobson S, Myers K, Sabbagh MN. Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

61. **The alzheimer's questionnaire (AQ): a pilot study for a new informant-based dementia assessment.** Malek-Ahmadi M, Kataria R, Belden CM, Connor DJ, Pearson C, Jacobson S, Yaari R, Singh U, Sabbagh MN. Banner Sun Health Research Institute; Banner Alzheimer's Institute; Sierra Health; Arizona Alzheimer's Consortium.

62. **Echocardiography vortex formation time reveals cardiac diastolic transmitral flow dysfunction in Alzheimer's disease patients.** Roher AE, Belohlavek M, Maarouf CL, Kokjohn TA, Garami Z, Bech TG, Sabbagh MN. Banner Sun Health Research Institute; Mayo Clinic Arizona; Midwestern University; Texas Medical Center; Arizona Alzheimer's Consortium.

63. **Amyloid imaging with florbetapir F 18 (18F-A-45) PET in a subject with Down's syndrome and Alzheimer's disease at the end of life.** Sabbagh MN, Jacobson SA, Sue LI, Cole L, Liebsack C, Charney AS, Beach TG**.** Banner Sun Health Research Institute; Arizona Alzheimer's Consortium.

64. **Cerebrovascular risk factors influence age-related memory decline.** Caselli RJ, Dueck AC, Locke DEC, Sabbagh MN, Ahern GL, Rapcsak SZ, Baxter LC, Yaari R, Woodruff BK, Hoffman-Snyder C, Findley S, Reiman EM. Mayo Clinic Arizona; Banner Sun Health Research Institute; University of Arizona; Barrow Neurological Institute; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium

65. **Anxiety is associated with mild cognitive impairment: a population-based study.** Geda YE, Obermeier A, Roberts RO, Knopman DS, Pankratz VS, Boeve BF, Petersen RC. Mayo Clinic Rochester; Paracelsus Medical School, Salzburg, Austria; Arizona Alzheimer's Consortium

66. **Grey matter volume reductions in healthy APOE-e4 carriers: comparison of Dartel and standard SPM normalization methods.** Stonnington CM, Chen K, Lee W, alexander GE, Reiman EM. Mayo Clinic Arizona; Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; University of Arizona; Arizona Alzheimer's Consortium.

67. **A survey of the Alzgene database for genetic risk factors in Alzheimer's disease.** Corneveaux JJ, Allen AN, Pruzin JJ, Chewning K, Villa SE, Meechoovet B, Gerber JD, Frost D, Benson HL, Heward CB, Hardy J, Myers AJ, Craig DW, Van Keuren-Jensen KR, Dunckley T, Reiman EM, Huentelman, MJ. Translational Genomics Research Institute; Kronos Life Sciences; University College of London; University of Miami; University of Arizona; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium.

68. **Association between a possibly protective GAB2 haplotype and higher glucose metabolism in Alzheimer's disease-affected brain regions in cognitively normal APOEε4 carriers.** Liang WS, Chen K, Lee W, Sidhar K, Corneveaux JJ, Allen A, Villa S, Meechoveet B, Pruzin J, Bandy D, Reeder SA, Venditti JM, Fleisher AS, Langbaum JBS, Huentelman MJ, Jensen K, Caselli RJ, Reiman EM. Translational Genomics Research Institute; Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Arizona Alzheimer's Consortium.

69. **Association of TOMM40 and APOC1 with altered Alzheimer's disease risk in APOE ε3 homozygotes.** Pruzin JJ, Corneveaux JJ, Allen AN, Chewning K, Villa SE, Meechoovet B, Gerber JD, Frost D, Benson HL, Heward CB, Hardy J, Myers AJ, Craig DW, Van Keuren-Jensen KR, Dunckley T, Reiman EM, Huentelman, MJ. Translational Genomics Research Institute; Kronos Life Sciences; University College of London; University of Miami; University of Arizona; Banner Alzheimer's Institute; Arizona Alzheimer's Consortium.

70. **Identification of APOE genotypes using indexed next generation sequencing.** Reiman R, Pruzin JJ, Corneveaux JJ, Huentelman MJ. Translational Genomics Research Institute; Arizona Alzheimer's Consortium.

71. **Multivariate regional network pattern of MRI gray matter preceding conversion to dementia in amnestic mild cognitive impairment.** Bergfield KL, Hanson KD, Chen K, Reiman EM, Bernstein MA, Kormak J, Harvey D, Schuff NW, Thompson PM, Weiner MW, Jack Jr. CR, Moeller Jr, Alexander GE. University of Arizona; Banner Alzheimer's Institute; Banner Good Samaritan Medical Center; Mayo Clinic, Rochester; University of California San Francisco; University of California Davis; Veterans Affairs Medical Center, San Francisco; University of California Los Angeles; Columbia University; Arizona Alzheimer's Consortium.

72. **Sleep characteristics in older children with Down syndrome**. Breslin JH, Mason GM, Edgin JO, Bootzin RR, Goodwin JL, Nadel L. University of Arizona; Arizona Alzheimer's Consortium.

73. **Analysis of the Montreal Cognitive Assessment (MOCA) and its individual domains versus the Mini Mental State Examination in cognitively impaired versus cognitively normal subjects as assessed by neuropsychological testing.** Damian AM, Jacobson SA, Belden C, Shill H, Sabbagh MN, Vedders L, Hentz JG, Caviness J and Adler CH. University of Arizona in Partnership with Arizona State University**;** Banner Sun Health Research Institute; Mayo Clinic Arizona; Arizona Alzheimer's Consortium.

74. **Distinguishing the roles of parahippocampal cortex and hippocampus during object-scene recognition.** Duke D, Lin C-Y, Kawa K, Nadel L, Ryan L. University of Western Ontario, Canada; National Cheng Kung University, Taiwan, Republic of China; University of Arizona; Arizona Alzheimer's Consortium.

75. **Face memory loss and face memory distortion in frontotemporal dementia.** Edmonds EC, Rapcsak SZ, Bartlett JC, Glisky EL. University of Arizona; Veterans Administration Medical Center; University of Texas; Arizona Alzheimer's Consortium.

76. **Network analysis of MRI gray matter in amnestic mild cognitive impairment: relation to rates of cognitive decline and conversion to dementia.** Hanson KD, Chen K, Ryan L, Glisky EL, Reiman EM, Bernstein MA, Kornak J, Harvey DJ, Schuff NW, Jack Jr. CR, Thompson PM, Weiner MW, Alexander GE. University of Arizona; Banner Alzheimer's Institute, Banner Good Samaritan Medical Center; Mayo Clinic Rochester; University of California San Francisco; University of California Davis; Veterans Affairs Medical Center, San Francisco; University of California Los Angeles; Arizona Alzheimer's Consortium.

77. **The effects of semantic relatedness on context-specific object recognition.** Kawa K, Duke D, Parch J, Cardoza J, Nadel L, Ryan L. University of Arizona; University of Western Ontario, Canada; Arizona Alzheimer's Consortium.

78. **Regional reduction of cortical thickness in cognitively normal late middle aged adults with APOE ε4.** Lin K, Ashish D, chen K, Bergfield KL, Caselli RJ, Reiman EM, Alexander GE. University of Arizona; Banner Alzheimer's Institute; Mayo Clinic Arizona; Arizona Alzheimer's Consortium.

79. **The role of catechol-o-methyltransferase and dopamine receptor D4 in ADHD Symptom variation among individuals with Down syndrome.** Mason GM, Edgin JO, Nadel L. University of Arizona; Arizona Alzheimer's Consortium.

80. **Distributed regional pattern of gray matter volume in Alzheimer's disease: A comparison with the effects of healthy aging.** Menchola M, Bergfield KL, Hanson KD, Chen K, Lin L, Teipel SJ, Hampel H, Rapoport SI, Moeller JR, Alexander GE. University of Arizona; Banner Alzheimer's Institute, Banner Good Samaritan Medical Center; University of Rostock, Germany; University of Dublin, Ireland; Ludwig-Mazimilian University, Germany; National Institutes on Aging; Columbia University; Arizona Alzheimer's Consortium.

81. **Small animal PET/collimator-less SPECT prototyping.** Moore SK, Barrett HH, Furenlid LR. University of Arizona; Arizona Alzheimer's Consortium.

82. **The effectiveness of mindfulness-based stress reduction as an intervention among middle-aged and older family caregivers of persons with neurocognitive disorders.** O'Donnell R, Kaszniak AW, Menchola M. University of Arizona; Arizona Alzheimer's Consortium.

83. **The effects of distraction and interruption forms of interference on delayed-nonmatching to sample task performance.** Plange K, Burke SN, Nematollahi S, Huerta D, Gazzaley A, Barnes CA. University of Arizona; University of California San Francisco; Arizona Alzheimer's Consortium.

84. **Understanding diffusion-weighted magnetic resonance imaging via computational modeling of the diffusion of water magnetization.** Russell G, Secomb T, Harkins K, Trouard T. University of Arizona; Arizona Alzheimer's Consortium.

85. **Age related differences in white matter diffusion and their relation to cognitive function are determined by APOE status.** Ryan L, Walther K, Glisky EL. University of Arizona; Arizona Alzheimer's Consortium.

86. **Set-shifting in Down syndrome: cognitive and genetic correlates**. Spano G, Nadel L, Mason G, Edgin J. University of Arizona; Arizona Alzheimer's Consortium.

87. **Longitudinal changes in memory and executive functioning in cognitively healthy APOE E4 carriers.** Walther K, Glisky EL, Ryan L. University of Arizona; Arizona Alzheimer's Consortium.

88. **White matter integrity is altered with increased body weight in older females.** Walther K, Ryan L. University of Arizona; Arizona Alzheimer's Consortium.

89. **Ultra-short TE imaging in Alzheimer's disease.** Yoshimaru E, totenhagen J, Trouard T. University of Arizona; Arizona Alzheimer's Consortium.