

**CURRICULUM VITAE  
CHENGJIE (KEN G.) XIONG, PH.D.**

**Education**

|      |                                 |       |                     |
|------|---------------------------------|-------|---------------------|
| 1983 | Xiangtan University, P.R. China | B.S.  | Mathematics         |
| 1989 | Peking University, P.R. China   | M.S.  | Applied Mathematics |
| 1997 | Kansas State University         | Ph.D. | Statistics          |

**Academic Positions/Employment**

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|-----------|-----------------------------------------------------------------------------------------------|
| 1983-1986 | Instructor, Mathematics and Statistics Division, Zhangjiako<br>Telecommunication College, PRC |
| 1989-1991 | Instructor, Department of Mathematics, Peking University                                      |
| 1991-1994 | Graduate Teaching Assistant, Department of Mathematics, Kansas State<br>University, KS        |
| 1994-1997 | Graduate Teaching Assistant, Department of Statistics,<br>Kansas State University             |
| 1997-2001 | Assistant Professor, Department of Mathematics, Southeast Missouri<br>State University, MO    |
| 2001-2006 | Research Assistant Professor, Division of Biostatistics, Washington<br>University, MO         |
| 2006-2009 | Research Associate Professor, Division of Biostatistics, Washington<br>University, MO         |
| 2006-2009 | Research Associate Professor, Department of Neurology, Washington<br>University, MO           |

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|--------------|---------------------------------------------------------------------------------------|
| 2009-2013    | Associate Professor with Tenure, Division of Biostatistics, Washington University, MO |
| 2009-2013    | Associate Professor, Department of Neurology, Washington University, MO               |
| 2013-Present | Professor, Division of Biostatistics, Washington University, MO                       |
| 2013-Present | Professor, Department of Mathematics, Washington University, MO                       |
| 2013-Present | Professor, Department of Neurology, Washington University, MO                         |

## **Awards/Leadership/Activities**

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| 2001         | Outstanding Research Award, College of Science and Mathematics, Southeast Missouri State University                                     |
| 2005-Present | Biostatistics Core. Antecedent Biomarkers for AD: The Adult Children Study                                                              |
| 2008-Present | Director: Data Management & Biostatistics Core, Alzheimer's Disease Research Center (ADRC)                                              |
| 2008-Present | Biostatistics Core, Health Aging and Senile Dementia (HASD)                                                                             |
| 2008-Present | Director: Biostatistics Core, Dominantly Inherited Alzheimer's Disease (DIAN)                                                           |
| 2009         | Faculty of the Year Award: Division of Biostatistics, Washington University                                                             |
| 2009-2011    | Elected member: National Alzheimer Coordinating Center (NACC) Scientific Review Committee                                               |
| 2010-2013    | Elected member: National Alzheimer Coordinating Center (NACC) Data Core Steering Committee                                              |
| 2010-Present | Invited member: External Advisory Committee, University of Wisconsin Alzheimer's Disease Research Center (ADRC, PI: Dr. Sanjay Asthana) |
| 2011         | Faculty of the Year Award: Division of Biostatistics, Washington University                                                             |
| 2011-2012    | Chair: National Alzheimer Coordinating Center (NACC) Data Core Steering Committee                                                       |
| 2012-Present | Director: Biostatistics Core, Dominantly Inherited Alzheimer's Disease (DIAN Clinical Trials Unit)                                      |

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| 2013-2014 | Invited member: External Advisory Committee, Mayo Clinic Study of Aging (PI: Dr. Ronald Petersen) |
| 2015      | Faculty of the Year Award: Division of Biostatistics, Washington University                       |
| 2016      | Faculty of the Year Award: Division of Biostatistics, Washington University.                      |

## Editorial Responsibilities

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| 2003-2004    | Associate Editor: <u>Journal of the Alzheimer's Disease</u>                                                                                                                                                                        |
| 2005-2007    | Associate Editor of Biostatistics: <u>Alzheimer's Disease &amp; Associated Disorder</u>                                                                                                                                            |
| 2010-Present | Associate Editor: <u>Journal of Biometrics &amp; Biostatistics</u>                                                                                                                                                                 |
| 2012-Present | Associate Editor: <u>Neuroscience and Biomedical Engineering</u>                                                                                                                                                                   |
| 2012-Present | Special Society Journal Reviewer: <u>Alzheimer's &amp; Dementia: the Journal of the Alzheimer's Association</u>                                                                                                                    |
| 2013-Present | Invited member of Statistical Advisory Board: <u>PLOS ONE</u><br>Editorial board member: Alzheimer's & Dementia: Translational Research & Clinical Interventions [AD-TRCI]; <u>Journal of Modern Applied Statistical Methods</u> ; |

Reviewer for: Statistical Methods in Medical Research, Clinical trials, Lancet Neurology, Biometrics, Statistics in Medicine, The American Statistician, Biometrical Journal, Statistics in Biopharmaceutical Research, Computational Statistics & Data Analysis, IEEE Transactions on Reliability, Journal of Applied Statistics, Journal of Biopharmaceutical Statistics, Alzheimer's Disease & Associated Disorder, Journal of Modern Applied Statistical Methods, Journal of Statistical Simulation and Computation, Circulation, International Journal of Reliability, Quality and Safety Engineering, Naval Research Logistics, IIT Transactions, International Journal of Statistics, Alzheimer's & Dementia, JAMA Neurology.

## Professional Societies and Organizations

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|--------------|-----------------------------------------------------------------------|
| 1997-2001    | Member: The Mathematical Association of America                       |
| 1997-Present | Member: American Statistical Association (ASA)                        |
| 2001-Present | Member: International Biometrics Society (ENAR)                       |
| 2002-Present | Member: WU ADRC Executive Committee                                   |
| 2011-Present | Member and co-chair: MS in Biostatistics Graduate Admission Committee |

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| 2012-Present | Member: Society for Clinical Trials (SCT)                                                                                                                        |
| 2013-Present | Invited Member: NIH Adult Psychopathology and Disorders of Aging Study Section (APDA) Biobehavioral and Behavioral Processes IRG (BBBP)                          |
| 2013-Present | Member: Washington University School of Medicine Research Affairs Committee                                                                                      |
| 2020-Present | Invited Member: Medical Imaging Drug Advisory Committee (MIDAC) for Center for Drug Evaluation and Research (CDER), the U.S. Food and Drug Administration (FDA). |

## Support

### Current Support

1. Data Management and Biostatistics Core Director, Healthy Aging and Senile Dementia (HASD). NIH/NIA P01 AG003991 (PI: Morris, John), 1/1/1984 to 4/30/2024, Role: Core Director.
2. Data Management and Biostatistics Core Director, Alzheimer's Disease Research Center (ADRC). NIH/NIA P50 AG005681 (PI: Morris, John), 9/30/1985 to 4/30/2020, Role: Core Director.
3. Data Management and Biostatistics Core Director, The Adult Children Study (ACS). NIH/NIA P01 AG 026276 (PI: Morris, John), 9/30/2005 to 5/31/2021, Role: Core Director.
4. Data Management and Biostatistics Core Director, Dominantly Inherited Alzheimer Network (DIAN), NIH/NIA U19 AG032438 (PI: Morris, John) 9/15/08 to 06/30/2024, Role: Core Director.
5. Dominantly Inherited Alzheimer Network Trials Unit (DIAN TU) – Adaptive Prevention Trial – Biostatistics Component, NIH/NIA R01 AG046179 (PI: Bateman, Randy) 8/1/2014 to 12/31/2020, Role: Core Director.
6. Antecedent Biomarker Changes in AD: Ordering, Stages, and Implications for Trials. R01 AG053550. 9/01/2016 to 8/31/2021. Role: Principal Investigator.
7. DIAN-TU Next Generation Prevention Trial – Biostatistics Component. R01 AG053267. (PI: Bateman, Randy) 9/30/2016 to 5/31/2022, Role: Co-I.
8. Aerobic Glycolysis in the Pathophysiology of Alzheimer's Disease, NIH/NIA R01 AG 053503. (PI: Vlassenko, Andrei), 9/1/2017 to 3/31/2022, Role: Co-I.
9. Aerobic Glycolysis: A Marker of Brain Resilience to Aging and Alzheimer's Disease, NIH/NIA R01 AG 057536. (PI: Vlassenko, Andrei), 9/15/2017 to 3/31/2022. Role: Co-I.

10. Biostatistics Core Director, Dominantly Inherited Alzheimer Network  
Therapeutic Trial Unit (DIAN TTU), NIH/NIA R01 AG042791 (PI: Bateman,  
Randy) Role: Core Director.

## Scientific Contributions

### Books/Book Chapters

1. **Xiong C.** Step–Stress Accelerated Life Testing, Reliability Engineering Handbook (ed. Hoang Pham), Springer-Verlag, 2003.
2. **Xiong C, Zhu K, Yu K.** Statistical survival analysis with applications. (Springer Handbook of Engineering Statistics, ed. Hoang Pham, 2005)
3. **Xiong C, Zhu K, Yu K, Miller JP.** Statistical Modeling in Biomedical Research: Longitudinal Data Analysis. in **Handbook of Statistics: Epidemiology and Medical Statistics**, Edited by C.R. Rao, J. Philip Miller, and D.C. Rao. Amsterdam: Elsevier B.V., 2008.

### Publications

4. **Xiong C** and Milliken G. Wavelet Nonparametric Regression with Dependent Data. Proceedings of the 1996 Kansas State University Conference on Applied Statistics in Agriculture, 162-189. 1996
5. **Xiong C.** Inferences on a Simple Step-stress Model with Type-II Censored Exponential Data. IEEE Transactions on Reliability, 47, 2, 142-146. 1998
6. **Xiong C.** Optimum Design on Step-stress Life Testing. Proceedings of the 1998 Kansas State University Conference on Applied Statistics in Agriculture, 214-225. 1998
7. **Xiong C.** Step Stress Model with Threshold Parameter. Journal of Statistical Simulation and Computation, 63, 349-360. 1999
8. **Xiong C** and Milliken G. Step-stress Life-testing with Random Stress-change Times for Exponential Data. IEEE Transactions on Reliability, 48, 2, 141-148. 1999
9. **Xiong C** and Milliken G. Changepoints in Stochastic Ordering. Communications in Statistics: Theory and Methods, 29, 2, 381-400. 2000
10. **Xiong C.** Optimum Price for a Chain of Price Setting Firms. (abstract), The IMS Bulletin, 272-40, No. 2, 133-133, 2001.
11. Robel R and **Xiong C.** Vegetation Structure and Invertebrate Biomass of Conventional and Sustainable Sorghum Fields in Kansas. The Prairie Naturalist, 33(1) 1-19, 2001.
12. **Xiong C** and El Barmi H. On Detecting Change in Likelihood Ratio Ordering. Journal of Nonparametric Statistics. 14, No 5, 555-568. 2002.
13. **Xiong C** and Milliken G. Prediction for Exponential Life-times Based on Step-stress Testing. Communications in Statistics: Simulation and Computation, 31, No 4, 539-556. 2002.

14. **Xiong C**, Yan Y and Ji M. Sample Sizes for Comparing Means of Two Lifetime Distributions with Type II Censored Data: Application in an Aging Intervention Study. *Controlled Clinical Trials*. 24, 283-293, 2003. PMID: 12757994.
15. Yan Y, Hoover DR, Moore RD, and **Xiong C**. Multivariate Estimation of Cumulative Incidence, Prevalence and Morbidity Time of a Disease When Death Is Likely. *Journal of Clinical Epidemiology* 56, 1-7, 2003. PMID: 12873649.
16. Han X, Fagan AM, Cheng H, Morris JC, **Xiong C**, Holtzman DM. CSF sulfatide is decreased in individuals with incipient dementia. *Annals of Neurology* 54, 1, 115-119, 2003. PMID: 12838527.
17. Duchek JM, Carr DB, Hunt L, Roe CM, **Xiong C**, Shah K, Morris JC. Longitudinal Driving Performance in Early Stage Dementia of the Alzheimer Type. *Journal of the American Geriatric Society* 51, 1342-1347, 2003. PMID: 14511152.
18. **Xiong C**, Miller JP and Morris JC. Testing Correlation of Cognitive Decline at Adjacent Stages of Dementia. *Journal of the Alzheimer's Disease* 5,5,409-418, 2003. PMID: 14646032.
19. Ji M, **Xiong C** and Grundman M. Use of Mixed Effects Models to Evaluate Change Points During the Course of Cognitive Decline to AD. *Journal of the Alzheimer's Disease* 5,5, 375-382, 2003. PMID: 14646028.
20. **Xiong C**, Yan Y, Ji M. Test of Homogeneity for Umbrella Alternatives in Dose-response Relationship. *Journal of Modern Applied Statistical Methods* 2,2,389-399, 2003
21. **Xiong C**, Miller JP, Yan Y and Ji M. Effect of a Guarantee Time on Sample Size Determination for Testing the Ratio of Means from Two Lifetime Distributions. *Journal of Biopharmaceutical Statistics* 14,1,177-188, 2004. PMCID: 15027507.
22. **Xiong C** and Ji M. Analysis of Grouped and Censored Data from Step-stress Life Testing. *IEEE Transactions on Reliability*. 53,1,22-28, 2004.
23. **Xiong C**, Miller JP, Feng G, Yan Y and Morris JC. Testing for Increasing Hazard Rate for the Time of Progression Associated with Alzheimer's Disease. *Discrete and Continuous Dynamical Systems B* 4,3,813-821, 2004.
24. Huang C, **Xiong C**, Kornfeld K. Measurements of age-related changes of physiological processes that predict life span of *Caenorhabditis elegans*. *Proceedings of National Academy of Sciences of the USA* 101, 21, 8084-8089, 2004. PMID: 15141086; PMCID: PMC419561.
25. McKeel DW, Price JL, Miller JP, Grant EA, **Xiong C**, Berg L and Morris JC. Neuropathologic criteria For diagnosing Alzheimer's disease in persons with pure dementia of Alzheimer type. *Journal of Neuropathology and Experimental Neuropathology* 2004; 63, 10:1028-1037. PMID: 15535130.
26. Yu K, Gu C, Province M, **Xiong C**, Rao DC. Genetic association mapping under founder heterogeneity via weighted haplotype similarity analysis in candidate genes. *Genetic Epidemiology* 2004, 27: 182-197. PMID: 15389925.

27. Liu B, Chen D, **Xiong C**, Xing K. New methods for binary multiplication. *International Journal of Computer Mathematics* 2005, 82 (1):13-22.
28. **Xiong C**, McKeel DW, Miller JP, Morris JC. Combining correlated diagnostic tests--application to neuropathologic diagnosis of Alzheimer's disease. *Medical Decision Making*. 2004, 24 (6): 659-669. PMID: 15534346.
29. Roe CM, Behrens MI, **Xiong C**, Miller JP, Morris JC. Alzheimer's Disease and Cancer Neurology 2005,64:895-898. PMID: 15753432.
30. Galvin JE, Powlishta KK, Wilkins K, McKeel DW, **Xiong C**, Grant E, Storandt M, Morris JC. Predictors of preclinical Alzheimer's disease and dementia: a clinicopathologic study. *Archives of Neurology* 2005, 62(5):758-65. PMID: 15883263.
31. Burns JM, Church JA, Johnson DK, **Xiong C**, Marcus D, Fotenos A, Snyder AZ, Morris JC, Buckner RL. White matter lesions are prevalent but differentially relate to cognition in aging and early Alzheimer's disease. *Archives of Neurology* 2005; 62: 1870 – 1876. PMID: 16344345.
32. Yu K, Zhang, S, Borecki I, Kraja A, **Xiong C**, Myers R, Province M. A Haplotype Similarity based Transmission/Disequilibrium Test under Founder Heterogeneity. *Annals of Human Genetics* 2005, 69:455-467. PMID: 15996173.
33. Lim, W-S, Liscic R, **Xiong C**, Morris JC. High dose vitamin E supplementation: time to return to the drawing board. *Annals of Internal Medicine*. *Annals of Internal Medicine* 2005, 143:152.
34. **Xiong C** and Zhu K. Estimating the Optimum Price for a Chain of Price Setting Firms. *Journal of Modern Applied Statistical Methods* 2005, 4(2):553-566.
35. **Xiong C**, Yu K, Gao F, Yan Y, Zhang Z. Power and sample size for clinical trials when efficacy is required in multiple endpoints-application to an Alzheimer's treatment trial. *Clinical Trials* 2005,2:387-393. PMID: 16317808.
36. Yu K, Gu C, **Xiong C**, An P, Province M. Global Transmission/Disequilibrium Tests Based on Haplotype Sharing in Multiple Candidate Genes. *Genetic Epidemiology* 2006, 29: 323-335. PMID: 16240444.
37. **Xiong C**, van Belle G, Miller JP, and Morris JC. Measuring and estimating diagnostic accuracy when there are three ordinal diagnostic groups. *Statistics in Medicine* 2006, 25:1251-1273. PMID: 16345029.
38. **Xiong C**, Zhu K and Ji M. Analysis of a Simple Step-Stress Life Testing with a Random Stress-Change Time. *IEEE Transactions on Reliability*. 2006, 55 (1), 67 - 74.
39. Csernansky JG, Dong H, Niven AF, Wang L, **Xiong C**, Holtzman DM, Morris JC. Plasma Cortisol and Progression of Dementia in DAT Subjects. *American Journal of Psychiatry* 2006; 163: 2164-2169. PMID: 8136068.

40. Gao F, Thompson P, **Xiong C**, Miller JP. Analyzing multivariate longitudinal data using SAS®. Proceedings of the SAS® Users Group International (SUGI 31) Conference. San Francisco, California, March, 2006.
41. Quick, KL, Ali, SS, Arch, R, **Xiong C**, Wozniak, D, Dugan, LL. A carboxyfullerene SOD mimetic improves cognition and extends the lifespan of mice. *Neurobiology of Aging*, 2006; E-Pub 9/06, Print 29:117-28 (2008). PMID: 17079053.
42. Williams MM, **Xiong C**, Morris JC, Galvin JE. Survival but not dementia progression differs in neuropathologically-defined dementia with Lewy bodies versus Alzheimer's disease. *Neurology* 2006; 67: 1935-1941.
43. Galvin JE, Roe CM, **Xiong C**, Morris JC. The validity and reliability of the AD8. *Archives of Neurology* 2006; 67: 1942-1948. PMID: 17159098.
44. Roe CM, **Xiong C**, Miller JP, Morris JC. Education and Alzheimer's Disease without Dementia: Support for the Cognitive Reserve Hypothesis. *Neurology* 2007; 68:223-228.
45. Fagan AM, Roe CM, **Xiong C**, Mintun MA, Morris JC, and Holtzman DM. Cerebrospinal fluid tau/ $\beta$ -Amyloid<sub>42</sub> ratio as a prediction of cognitive decline in nondemented older adults. *Archives of Neurology* 2007; 64: 343-349. PMID: 17210801.
46. Fagan AM, Roe CM, **Xiong C**, Mintun MA, Morris JC, and Holtzman DM. Medication use as a confounding factor in the use of the cerebrospinal fluid tau/ $\beta$ -Amyloid<sub>42</sub> ratio. *Archives of Neurology* 2007; 64: 1357-1358.
47. **Xiong C**, van Belle G, Miller JP, Yan Y, Gao F, Feng S, Yu K, and Morris JC. A parametric comparison of diagnostic accuracy with three ordinal diagnostic groups. *Biometrical Journal* 2007; 49(5): 682-693. PMID: 17763377.
48. **Xiong C**, Tang Y, van Belle G, Miller JP, Launer LJ, Bergmann KR, Morris JC. Assessing Statistical Applications in Publications on Alzheimer's Disease. *Neuroepidemiology* 2007; 28:235-245. PMID: 17878738.
49. Ji M, **Xiong C**, Gilpin EA, Biener L. Assessing the effectiveness of anti-smoking media campaigns by recall and rating scores --- A pattern-mixture GEE model. *Journal of Data Science*, 2007; 5:23-40.
50. Hughes SE, Evason K, **Xiong C**, Kornfeld K. Genetic and pharmacological factors that influence reproductive aging in nematodes. *PLoS Genetics* 2007; 3 (2):e25. doi:10.1371/journal.pgen.0030025. PubMed PMID: 17305431; PubMed Central PMCID: PMC1797816.
51. Lenze S, **Xiong C**, and Sheline YI. Childhood adversity predicts earlier onset of Major Depression but not reduced hippocampal volume. *Psychiatry Research: Neuroimaging* 2008; 162(1): 39-49. PubMed PMID: 18068956; PubMed Central PMCID: PMC3588158.



52. Gao F, **Xiong C**, Yan Y, Yu K and Zhang Z. Estimating optimum linear combination of multiple correlated diagnostic tests at a fixed specificity with Receiver Operating Characteristic Curves. *Journal of Data Science* 2008; 6:1-13.
53. Roe CM, **Xiong C**, Grant E, Miller, JP, Morris JC. Education and reported onset of symptoms among individuals with Alzheimer's disease. *Archives of Neurology* 2008; 65(1):108-111.
54. Roe CM, **Xiong C**, Miller JP, Cairns NJ, Morris JC. Interaction of Neuritic Plaques and Education Predicts Dementia. *Alzheimer's Disease & Associated Disorders* 2008; 22:188-193. PubMed PMID: 18525294; PubMed Central PMCID: PMC2770714.
55. Carpenter BD, **Xiong C**, Porensky EK, Lee MM, Brown PJ, Coats M, Johnson D, Morris JC. Reaction to a Dementia Diagnosis in Individuals with Alzheimer's Disease and MCI. *Journal of American Geriatrics Society* 2008; 56:405-412
56. **Xiong C**, Gao F, Yan Y, Luo Q, Sung Y, Shi G. On Measuring Overall Heterogeneity in Meta-analyses---Application to CSF Biomarker Studies in Alzheimer's Disease. *Journal of Modern Applied Statistical Methods* 2008; 7: 286-296. PubMed PMID: 20703369; PubMed Central PMCID: PMC2919159.
57. **Xiong C**, Tang Y, van Belle G, Miller JP, Launer LJ, Morris JC. Evaluating the Quality of Longitudinal Statistical Applications in Original Publications on Alzheimer's Disease *Neuroepidemiology* 2008; 30:112-119. PubMed PMID: 18334827; PubMed Central PMCID: PMC2857641.
58. Roe CM, Mintun MA, D'Angelo G, **Xiong C**, Grant EA, Morris JC. Alzheimer Disease and Cognitive Reserve: Variation of Education Effect with Carbon 11-Labeled Pittsburgh Compound B Uptake. *Archives of Neurology* 2008; 65:1467-1471. PubMed PMID: 19001165; PubMed Central PMCID: PMC2752218.
59. Snider BJ, Fagan AM, Roe CM, Shah AR, Grant EA, **Xiong C**, Morris JC, Holtzman DM. CSF biomarkers and rate of cognitive decline in very mild dementia of the Alzheimer type. *Archives of Neurology* 2009; 66: 638 - 645.
60. Ringman JM, Grill J, Rodriguez-Agudelo Y, Chavez M, **Xiong C**. Prevention Trials in Persons At-Risk for Dominantly-Inherited Alzheimer's Disease: Opportunities and Challenges. *Alzheimer's & Dementia* 2009; 5:166-171. PubMed PMID: 19328453; PubMed Central PMCID: PMC2746429.
61. Avidan MS, Searleman AC, Storandt M, Barnett K, Vannucci A, Saager L, **Xiong C**, Grant EA, Kaiser D, Morris JC, Evers AS. Long-term cognitive decline in elderly people was not attributable to non-cardiac surgery or major illness. *Anesthesiology* 2009 Nov; 111(5):964-70. PubMed Central PMCID: PMC2783989.
62. **Xiong C**, Miller JP, Morris JC. Measuring Study-specific Heterogeneity in Meta-analysis: Application to an Antecedent Biomarker Study of Alzheimer's Disease. *Statistics in Biopharmaceutical Research* 2010; 2(3):300-309. PubMed Central PMCID: PMC2919159.
63. Price JL, McKeel DW, Buckles VD, Roe CM, **Xiong C**, et al. Neuropathology of Nondemented Aging: Presumptive Evidence for Preclinical Alzheimer Disease.

- Neurobiology of Aging 2009; 30:1026-1036. PubMed Central PMCID: PMC2737680.
64. Wang L, Harms MP, Staggs JM, **Xiong C**, Morris JC, Csernansky JG, Galvin JE. Donepezil treatment and changes in hippocampal structure in very mild Alzheimer disease. *Archives of Neurology* 2010; 67(1):99-106. PubMed PMID: 20065136; PubMed Central PMCID: PMC2855123.
  65. Roe CM, Fitzpatrick AL, **Xiong C**, Sieh W, Kuller L, Miller JP, Williams MM, Kopan R, Behrens MI, Morris JC. Cancer Linked to Alzheimer's Disease but not Vascular Dementia. *Neurology* 2010; 74:106-112. PMID: 20032288, PMCID: PMC2809029
  66. Morris JC, Roe CM, **Xiong C**, Fagan AM, Goate AM, Holtzman DM, Mintun MA. *APOE* Predicts A $\beta$  but not Tau Alzheimer's Pathology in Cognitively Normal Aging. *Ann Neurol* 2010; 67:122-131. PubMed PMID: 20186853; PubMed Central PMCID: PMC2830375.
  67. Thio LL, Rensing N, Maloney S, Wozniak DF, **Xiong C**, Yamada KA. A Ketogenic Diet Does Not Impair Rat Behavior or Long-term Potentiation. *Epilepsia* 2010; 51(8):1619-1623. PubMed PMID: 20132289; PubMed Central PMCID: PMC2996229.
  68. Ances BM, Christensen JJ, Teshome M, Taylor J, **Xiong C**, Aldea P, Fagan AM, Holtzman DM, Morris JC, Mintun MA, Clifford DB. Unimpaired HIV+ Participants Do Not Have Fibrillar Amyloid Plaques: A Case Control Study *Neurology* 2010; 75:111-115. PubMed PMID: 20534887; PubMed Central PMCID: PMC2905926.
  69. Palmer JL, Coats MA, Roe CM, Hanks SM, **Xiong C**, Morris JC. Unified Parkinson's Disease Rating Scale-Motor Exam: inter-rater reliability of advanced practice nurse and neurologist assessments. *Journal of Advanced Nursing* 2010; 66(6):1382-1387. PubMed Central PMCID: PMC2903978
  70. Craig-Schapiro R, Perrin RJ, Roe CM, **Xiong C**, Grant EA, Carter D, Cairns NJ, FRCPATH, Mintun MA, Peskind ER, Li G, Galasko DR, Clark CM, Quinn JF, D'Angelo G, Malone JP, Townsend RR, Morris JC, Fagan AM, Holtzman DM. YKL-40: A Novel Diagnostic and Prognostic Fluid Biomarker for Preclinical and Early Alzheimer's Disease. *Biological Psychiatry* 2010; 68(10):903-912. PubMed Central PMCID: PMC3011944.
  71. Avidan MS, **Xiong C**, Evers AS. Postoperative Cognitive Decline: The Unsubstantiated Phenotype. *Anesthesiology* 2010; 113:1246-1248. PubMed PMID: 20966673.
  72. Tian L, **Xiong C**, Lai CY, Vexler A. Exact Confidence Interval Estimation for the Difference in Diagnostic Accuracy with Three Ordinal Diagnostic Groups. *Journal of Statistical Planning and Inference* 2010; 141, 549-558. PubMed PMID: 23538945; PubMed Central PMCID: PMC3607387.
  73. **Xiong C**, van Belle G, Zhu K, Miller JP, Morris JC. A Unified Approach of Meta-Analysis: Application to an Antecedent Biomarker Study in Alzheimer's Disease. *Journal of Applied Statistics*. 2011; 38(1):15-27. PubMed PMID: 21221414; PubMed Central PMCID: PMC3017356.

74. Gao F, Miller JP, **Xiong C**, Huecke Jr, Gordon M. A joint-modeling approach to assess the impact of biomarker variability on the risk of developing clinical outcome. *Statistical Methods and Applications* 2011; 20(1):83-100. PubMed PMID: 21339862; PubMed Central PMCID: PMC3039885.
75. Bateman RJ, Aisen PS, Strooper BD, Fox NC, Lemere CA, Ringman JM, Salloway S, Sperling RA, Windisch M, **Xiong C**. Autosomal-dominant Alzheimer's disease: A review and proposal for the prevention of Alzheimer's disease. *Alzheimer's Research & Therapy* 2011; 3(1):1. PubMed PMID: 21211070; PubMed Central PMCID: PMC3109410.
76. **Xiong C**, van Belle G, Miller JP, Morris JC. Designing clinical trials to test disease-modifying agents—application to the treatment trials of Alzheimer's disease. *Clinical Trials* 2011; 8(1):15-26. PMID: 21335587; PubMed Central PMCID: PMC3146242.
77. **Xiong C**, Roe CM, Buckles V, Fagan AM, Holtzman D, Balota D, Duchek J, Storandt M, Mintun M, Grant E, Snyder AZ, Head D, Benzinger TLS, Mettenburg J, Csernansky J, Morris JC. Role of family history for Alzheimer biomarker abnormalities in the adult children study. *Archives of Neurology* 2011; 68(10):1313-1319. PubMed PMID: 21987546; PubMed Central PMCID: PMC3327304.
78. Fagan AM, Shaw LM, **Xiong C**, Vanderstichele H, Mintun MA, Morris JC, Holtzman DM. Comparison of analytical platforms for cerebrospinal fluid measures of A $\beta$ 42, total tau and p-tau181 for identifying Alzheimer's disease amyloid plaque pathology *Archives of Neurology* 2011; 68:1137-1144. PubMed PMID: 21555603; PubMed Central PMCID: PMC3154969.
79. Craig-Schapiro R, Kuhn M, **Xiong C**, Pickering EH, Liu J, Misko TP, Perrin RJ, Bales KR, Soares H, Fagan AM, Holtzman DM. Multiplexed Immunoassay Panel Identifies Novel CSF Biomarkers for Alzheimer's Disease Diagnosis and Prognosis. *PLOS ONE* 2011. PubMed PMID: 21526197; PubMed Central PMCID: PMC3079734.
80. Tarawneh R, D'Angelo G, Macy E, **Xiong C**, Carter D, Cairns NJ, Fagan AM, Head D, Mintun MA, Ladenson JH, Lee J-M, Morris JC, Holtzman DM. Visinin-like protein-1: a novel diagnostic and prognostic marker in Alzheimer's disease. *Ann Neurol*. 70(2):274-295, 2011. PubMed PMID: 21823155; PubMed Central PMCID: PMC3154071.
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- David Wallon<sup>1</sup>, Bruno Dubois<sup>2</sup>, Jeremie Pariente<sup>3</sup>, Raquel Sanchez-Valle<sup>4</sup>, Catherine Mummery<sup>5</sup>, Shuana H. Yuan<sup>q</sup>, John M. Ringman<sup>6</sup>, Michel Bottlaender<sup>7</sup>, Didier Hannequin<sup>z</sup>, Greg Klein<sup>8</sup>, Smiljana Milosavljevic-Ristic<sup>8</sup>, Eric McDade<sup>c,e</sup>, **Chengjie Xiong**<sup>c,d</sup>, John C. Morris<sup>c,e</sup>, Randall J. Bateman<sup>c,e</sup>, Tammie. L.S. Benzinger<sup>b,c</sup>  
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## **Presentations and Invited Lectureships**

1. (Invited) Xiong C. Bessel function and Ordering of Biomarkers in Alzheimer disease. ENAR Spring Meetings, International Biometric Society, Nashville, USA. March, 2020.
2. Xiong C. A Statistical Test for Biomarker Orderings in Alzheimer Research. Joint Statistical Meetings; Vancouver July-August, 2018.
3. (Invited) Xiong, C. Bessel Functions and Temporal Orderings of Biomarkers in Preclinical Alzheimer Disease, The Fourth International Workshop on the Statistical Analyses of Multi-Outcome Data. St. Louis, Washington University, June 2018.
4. Xiong C. Racial Difference of Incident Alzheimer Disease. Alzheimer Association International Conference, Chicago, July 2018.
5. (Invited) Xiong, C. Inferring diagnostic accuracy for clustered ordinal diagnostic groups in three-class or higher case--application to the early diagnosis of Alzheimer disease. ENAR, Atlanta, March 2018.
6. (Invited) Xiong, C. Round Table Discussions: Career Opportunities in Aging and Dementia Research, Joint Statistical Meetings, Baltimore 2017.
7. Xiong C. Cross-sectional and longitudinal comparisons of biomarkers and cognition among cognitively normal individuals aged from 42 to 65 years with a family history of either autosomal dominant or late onset Alzheimer disease. Alzheimer Association International Conference, London, July 2017;
8. (Invited) Xiong C. Joint Modeling of Longitudinal and Time to Event Data with Random Change-points. Departments of Statistics, University of Missouri, Columbia 2016;
9. (Invited) Xiong C. Disease-Modifying Trials on Alzheimer Disease, FDA/Academia/Industry Workshop, September, 2014
10. Xiong C, Luo Q. Diagnostic accuracy for incipient diseases. August 2014, Joint Statistical Meetings, Boston.
11. (Invited) Xiong C. Design and Analyses of Clinical Trials on the Dominantly Inherited Alzheimer Network (DIAN), FDA/Academia/Industry Workshop, 2013
12. (Invited) Xiong C. Statistical Issues in Designing Clinical Trials on the DIAN, University of Minnesota Medical School Conference on Clinical Trials of AD, 2013.

13. (Invited) Xiong C. From signal detection to diagnostic accuracy. Department of Mathematics and Computer Sciences, University of Missouri, St. Louis, 2012.
14. (Session Chair and Organizer) Xiong C. Optimum design of disease-modifying trials. August 2011, Joint Statistical Meetings, Miami.
15. Xiong C. Combining Multiple Biomarkers to Optimize the Rate of Change. August 2010, Joint Statistical Meetings, Vancouver.
16. (Invited) Xiong C. Joint Modeling of Longitudinal and Time to Event Data with Random Changepoints. Departments of Statistics and Biostatistics, University of Kentucky, 2010.
17. Xiong, Xu Y, Miller JP, Morris JC. Education, baseline age and APOE4 genotypes are associated with the time for an accelerated rate of decline in visuospatial ability prior to the diagnosis of AD, 2010 International Conference on Alzheimer's Disease (ICAD), Honolulu, July 10-15, 2010.
18. Xiong C. Joint Modeling of Longitudinal and Time to Event Data with Random Changepoints. International Biometrics Society: Eastern North American Region. New Orleans 2010
19. (Invited) Xiong C. Joint Modeling of Longitudinal and Time to Event Data with Random Changepoints. Department of Biostatistics and Medical Informatics, University of Wisconsin, 2010.
20. Xiong C. Joint modeling of longitudinal cognitive measures and disease onset in Alzheimer's disease. August 2009, Joint Statistical Meetings, Washington DC.
21. Xiong C. Meta-analyses when individual patient data are only partly available. March 2009, International Biometrics Society: Eastern North American Region San Antonio.
22. Xiong C, Roe C, Miller JP, Morris J. Preclinical cognitive changes in Alzheimer's disease. July 26-31, 2008 International Conference on Alzheimer's Disease (ICAD), Chicago.
23. Xiong C. Assessing Longitudinal Statistical Methodologies in Publications on Alzheimer's Disease. Asia Pacific EBM Network Conference, "Constraints and Solutions". Dec. 8-10, 2006, Hong Kong.
24. Xiong C. Assessing Statistical Applications in Publications on Alzheimer's Disease. The 10<sup>th</sup> International Conference on Alzheimer's Disease and Related Disorders (2006 ICAD), July 15–20, 2006, Madrid, Spain.
25. Xiong C. Detecting an Optimum Subset of Differentially Expressed Genes through ROC (invited presentation) The First International Conference on Computational Systems Biology (ICCSB '06), Shanghai, China, July 20-23, 2006.
26. Xiong C. Estimation and Comparison of Diagnostic Accuracy when Diagnostic Tests Are Subject to Censoring--Application to the Diagnosis of Early Stage Alzheimer's Disease. Joint Statistical Meetings, Minneapolis, 2005.

27. Xiong C. Comparing Diagnostic Accuracy when Diagnostic Tests Are Subject to Censoring--Application to the Diagnosis of Early Stage Alzheimer's Disease. The Joint Meeting of CSPS/IMS, Beijing, 2005.
28. Burns JM, Xiong C, Church J, Fagan AM, Marcus D, Buckner RL, Holtzman DM, Morris JC. The Utility of CSF and MRI Biomarkers in Discriminating Early Alzheimer's Disease from Nondemented Aging. 5<sup>th</sup> Leonard Berg Symposium, St. Louis, 2005.
29. Xiong C, Miller JP. Statistical Power and Sample Size Determination for Clinical Trials with Multiple Primary Endpoints--Application to Alzheimer's Disease Treatment Trials. Joint Statistical Meetings. Toronto, 2004.
30. Xiong C, McKeel DW, Miller JP, Morris JC. Combining Correlated Diagnostic Tests---Application to Neuropathologic Diagnosis of Alzheimer's Disease. International Biometrics Society: Eastern North American Region, Pittsburgh, 2004.
31. Burns JM, Xiong C, Church J, Fagan AM, Han X, Head D, Fotenos A, Marcus D, Snyder AZ, Buckner RL, Holtzman DM, Morris JC. Combined Biomarkers In Discriminating Nondemented Aging from Early Alzheimer Disease. American Academy of Neurology Annual Meeting, 2004.
32. Xiong C. Test of Homogeneity against Umbrella Alternative in Poisson Variables. Joint Statistical Meetings, San Francisco, 2003.
33. Xiong C, Miller JP and Yan Y. A Sample Size Method for Testing the Ratio of Two Mean Lifetimes: Application to Aging Intervention Study. International Biometrics Society: Eastern North American Region, Tampa, 2003.
34. Williams MM, Xiong C, Grant E, McKeel Jr. DW, Storandt M, Morris JC, and Galvin JE. Survival but not dementia progression differs in dementia with Lewy bodies versus Alzheimer's disease. American Academy of Neurology Annual Meeting, 2003.
35. Burns JM, Xiong C, Church J, Fagan AM, Marcus D, Buckner RL, Holtzman DM, Morris JC. Combined Biomarkers in Discriminating Early Alzheimer's Disease from Nondemented Aging. 4<sup>th</sup> Leonard Berg Symposium, St. Louis, 2003.
36. Xiong C, Miller JP and Morris JC. Testing for Increasing Hazard Rate for the Time of Progression Associated with Alzheimer's Disease. Mathematical Biology, Guilin, 2002.
37. Xiong C, Miller JP and Morris JC. Testing Correlation of Cognitive Decline at Adjacent Stages of Dementia. Statistical Methodology in Alzheimer's Disease Research II, Lexington, 2002.
38. Ji M, Xiong C and Grundman M. Use of Mixed Effects Models to Evaluate Change Points During the Course of Cognitive Decline to AD. Statistical Methodology in Alzheimer's Disease Research II, Lexington, 2002.
39. Xiong C. Optimum Price for a Chain of Price Setting Firms The Fifth North American Meeting of New Researchers in Statistics and Probability. Atlanta, 2001.
40. Xiong C. Detecting Changes in Likelihood Ratio Ordering Recent Developments in Statistics and its Applications. Kuala Lumpur, 2001.

41. Keller T and Xiong C. Early Season Prediction of Soybean Weight Per Pod presented to 2001 Conference on Applied Statistics in Agriculture, Kansas State University, 2001.
42. Xiong C. Changepoints in a Contingency Table, Joint Statistical Meetings, Baltimore, 1999.
43. Xiong C. Comparing Intensities of Nonhomogeneous Poisson Processes, 26th International Conference on Stochastic Processes and Their Applications, Beijing, 1999.
44. Xiong, C. Step Stress Model with Threshold Parameter, International Conference on Reliability and Survival Analysis, Northern Illinois University, 1998.
45. Xiong C. Optimum Design on Step-stress Life Testing, Conference on Applied Statistics in Agriculture, Kansas State University, 1998.
46. Xiong C. Wavelet Nonparametric Regression with Dependent Data, Conference on Applied Statistics in Agriculture, Kansas State University, 199.