**Sheng Chih Jin, Ph.D.**

Department of Genetics
Washington University School of Medicine
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## EDUCATION

| | |
|---|---|
| 2014 | Ph.D., Human and Statistical Genetics, Washington University in St. Louis |
| 2008 | ScM, Biostatistics, Johns Hopkins Bloomberg School of Public Health |
| 2004 | B.S., Applied Mathematics, National Chiao Tung University, Taiwan |

## RESEARCH POSITIONS

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|---|---|
| Apr. 2020- | Tenure-Track Assistant Professor, Department of Genetics at Washington University School of Medicine |
| June 2018-Mar. 2020 | Postdoctoral Fellow, Rockefeller University (advisor: Richard Lifton) |
| Sep. 2014-May 2018 | Postdoctoral Fellow, Yale University (advisor: Richard Lifton) |
| Mar. 2011-Sept. 2014 | Graduate Research Assistant, Washington University School of Medicine (advisors: Alison Goate & Carlos Cruchaga) |
| Jan. 2008-Sept. 2008 | Research Assistant, Johns Hopkins (advisor: Leslie Cope) |
| Aug. 2007-June 2008 | Research Assistant, National Cancer Institute (advisor: Nilanjan Chatterjee) |

## PROFESSIONAL EXPERIENCE

| | |
|---|---|
| July 2008-Aug. 2010 | Senior Biostatistician, Johns Hopkins School of Medicine |
| Sept. 2004-Feb. 2006 | Lieutenant, Republic of China (Taiwanese) Army |

## FUNDING AND FELLOWSHIPS

| | |
|---|---|
| 2019- 2024 | K99/R00 Pathway to Independence Award, NHLBI, NIH |
| 2019 | Postdoctoral Association Career Development Award, Rockefeller University |
| 2018 | American Heart Association Postdoctoral Fellowship |
| 2015 | James Hudson Brown – Alexander B. Coxe Fellowship, Yale School of Medicine |
| 2014 | Howard Hughes Medical Institute Postdoctoral Fellowship, Howard Hughes Medical Institute at Yale School of Medicine |
| 2012 | Alzheimer's Association International Conference Travel Fellowship, Alzheimer's Association International Conference |
| 2011-2013 | Fellow, Lucille P. Markey Special Emphasis Pathway in Human Pathobiology, Markey Foundation, Washington University School of Medicine |

## AWARDS

| | |
|---|---|
| 2012 | Best Oral Presentation Award, Human & Statistical Genetics Program, Washington University School of Medicine |
| 2007-2008 | Departmental Scholarship, Department of Biostatistics, Johns Hopkins |
| 2007 | Cancer Research Training Award, National Cancer Institute, NIH |
| 2006 | Merica Institute Scholarship |

## PUBLICATIONS

**Selected Articles (*Equal contribution)**

1. **Jin SC***, Dong W*, Kundishora AJ*, Panchagnula S*, Moreno-De-Luca A*, Furey CG, Allocco AA, Walker RL, Nelson-Williams C, Smith H, Dunbar A, Conine S, Lu Q, Zeng X, Sierant MC, Knight JR, Sullivan W, Duy PQ, DeSpenza T, Reeves BC, Karimy JK, Marlier A, Castaldi C, Tikhonova IR, Li B, Peña HP, Broach JR, Kabachelor EM, Ssenyonga P, Hehnly C, Ge L, Keren B, Timberlake AT, Goto J, Mangano FT, Johnston JM, Butler WE, Warf BC, Smith ER, Schiff SJ, Limbrick DD, Heuer G, Jackson EM, Iskandar BJ, Mane S, Haider S, Guclu B, Bayri Y, Sahin Y, Duncan CC, Apuzzo ML, DiLuna ML, Hoffman EJ, Sestan N, Ment LR, Alper SL, Bilguvar K, Geschwind DH, Günel M, Lifton RP, Kahle KT. Exome sequencing implicates genetic disruption of prenatal neuro-gliogenesis in sporadic congenital hydrocephalus. ***Nature Medicine***. 2020.In Press.

2. **Jin SC***, Lewis S*, Bakhtiari S*, Zeng X*, Sierant MC, Shetty S, Nordlie S, Elie A, Corbett M, Norton B, van Eyk C, Haider S, Guida B, Magee H, Liu J, Pastore S, Vincent J, Brunstrom-Hernandez J, Papavasileiou A, Fahey M, Berry J, Harper K, Zhou C, Zhang J, Li B, Heim J, Webber D, Frank M, Xia L, Xu Y, Zhu D, Zhang B, Sheth A, Knight JR, Castaldi C, Tikhonoa I, Lopez-Giraldez F, Keren B, Whalen S, Buratti J, Doummar D, Cho M, Retterer K, Millan F, Wang Y, Waugh J, Rodan L, Cohen J, Fatemi A, Lin A, Phillips J, Feyma T, MacLennan S, Vaughan S, Crompton K, Reid S, Reddihough D, Shang Q, Gao C, Novak I, Badawi N, Wilson Y, McIntyre S, Mane S, Wang X, Amor D, Zarnescu D, Lu Q, Xing Q†, Zhu C†, Bilguvar K, Padilla-Lopez S, Lifton RP, Gecz J, MacLennan A, Kruer MC. Mutations disrupting neuritogenesis genes confer risk for cerebral palsy. ***Nature Genetics***. 2020. In Press.
3. Alloco A*, **Jin SC***, Duy PQ*, Furey CG, Zeng X, Dong W, Nelson-Williams C, Karimy JK, DeSpenza T, Hao LT, Reeves B, Haider S, Gunel M, Lifton RP, Kahle KT. Recessive inheritance of congenital hydrocephalus with other structural brain abnormalities caused by compound heterozygous mutations in *ATP1A3*. ***Frontiers Cellular Neuroscience.*** 2019 Sep 26;13:425. PMID: 31616254.
4. **Jin SC***, Furey CG*, Zeng X, Alloco A, Nelson-Williams C, Karimy JK, Dong W, Ma S, Delpire E, Kahle KT. SLC12A ion transporter mutations in sporadic and familial human congenital hydrocephalus. ***Molecular Genetics & Genomic Medicine.*** 2019 Sep;7(9):e892. PMID: 31393094.
5. Duran D*, Zeng X*, **Jin SC***, Choi J*, Nelson-Williams C, Yatsula B, Gaillard J, Furey CG, Lu Q, Timberlake AT, Dong W, Sorscher MA, Loring E, Klein J, Allocco A, Hunt A, Conine S, Karimy JK, Youngblood MW, Zhang J, DiLuna ML, Matouk CC, Mane SM, Tikhonova IR, Castaldi C, López-Giráldez F, Knight J, Haider S, Soban M, Alper SL, Komiyama M, Ducruet AF, Zabramski JM, Dardik A, Walcott BP, Stapleton CJ, Aagaard-Kienitz B, Rodesch G, Jackson E, Smith ER, Orbach DB, Berenstein A, Bilguvar K, Gunel M, Lifton RP, Kahle KT. Mutation in epigenetic modifiers and signaling regulators of neurovascular development in Vein of Galen malformation. ***Neuron***. 2019 Feb 6;101(3):429-443.e4. PMID: 30578106.
6. **Jin SC***, Homsy J*, Zaidi S*, Lu Q, Morton S, DePalma S, Zeng X, Qi H, Chang W, Hung W, Sierant M, Haider S, Zhang J, Knight J, Bjornson R, Castaldi C, Tikhonoa I, Bilguvar K, Mane S, Sanders S, Mital S, Russell M, Gaynor W, Deanfield J, Giardini A, Porter G, Srivastava D, Lo C, Shen Y, Watkins S, Yandell M, Yost J, Tristani-Firouzi M, Newburger J, Roberts A, Kim R, Zhao H, Kaltman J, Goldmuntz E, Chung W, Seidman J, Gelb B, Seidman C, Lifton RP, Brueckner M. (2017). Contribution of rare transmitted and de novo variants among 2,871 congenital heart disease probands. ***Nature Genetics***. 2017 Nov;49(11):1593-1601. PMID: 28991257.
7. Duran D*, **Jin SC***, DeSpenza T Jr*, Nelson-Williams C, Cogal AG, Abrash EW, Harris PC, Lieske JC, Shimshak SJ, Mane S, Bilguvar K, DiLuna ML, Günel M, Lifton RP, Kahle KT. Digenic mutations of human OCRL paralogs in Dent's disease type 2 associated with Chiari malformation. ***Human Genome Variation***. 2016 Dec 8;3:16042. PMID: 28018608.
8. **Jin SC*,** Carrasquillo MM*, Benitez BA, Skorupa T, Carrell D, Patel D, Lincoln S, Krishnan S, Kachadoorian M, Reitz C, Mayeux R, Wingo TS, Lah JJ, Levey AI, Murrell AI, Hendrie H, Foroud T, Graff-Radford NR, Goate AM, Cruchaga C, Ertekin-Taner N. *TERM2* is associated with increased risk for Alzheimer's disease in African Americans. ***Molecular Neurodegeneration***. 2015 Apr 10;10:19. PMID: 25886450
9. **Jin SC**, Benitez BA*, Karch CM*, Cooper B, Skorupa T, Carrell D, Norton JB, Hsu S, Harari O, Cai Y, Bertelsen S, Goate AM, Cruchaga C. Coding variants in *TREM2* increase risk for Alzheimer's disease. ***Human Molecular Genetics.*** 2014 Nov 1;23(21):5838-46. PMID: 24899047.
10. Benitez BA*, **Jin SC***, Guerreiro R, Graham R, Lord J, Harold D, Sims R, Lambert JC, Gibbs JR, Bras J, Sassi C, Harari O, Bertelsen S, Lupton MK, Powell J, Bellenguez C, Brown K, Medway C, Haddick PC, van der Brug MP, Bhangale T, Ortmann W, Behrens T, Mayeux R, Pericak-Vance MA, Farrer LA, Schellenberg GD, Haines JL, Turton J, Braae A, Barber I, Fagan AM, Holtzman DM, Morris JC; 3C Study Group; EADI consortium; Alzheimer's Disease Genetic Consortium; Alzheimer's Disease Neuroimaging Initiative; GERAD Consortium, Williams J, Kauwe JS, Amouyel P, Morgan K, Singleton A, Hardy J, Goate AM, Cruchaga C. Missense variants in *TREML2* protects against Alzheimer's disease. ***Neurobiology of Aging***. 2014 Jun;35(6):1510.e19-26. PMID: 24439484.
11. **Jin SC**, Pastor P, Cooper B, Cervantes S, Benitez BA, Razquin C, Goate AM, Ibero-American Alzheimer's Disease Genetics Group Researchers, Cruchaga C. Poole-DNA sequencing identifies novel causative variants in *PSEN1*, *GRN*, and *MAPT* in a clinical early-onset and familial

Alzheimer's disease Ibero-American cohort. ***Alzheimer's Research & Therapy.*** 2012 Aug 20;4(4):34. PMID: 22906081.

**Other Published Work (*Equal contribution)**

12. Morton SU, Shimamura A, Newburger PE, Opotowsky AR, Quiat D, Pereira AC, **Jin SC**, Gurvitz M, Brueckner M, Chung WK, Shen Y, Bernstein D, Gelb BD, Giardini A, Goldmuntz E, Kim RW, Lifton RP, Porter GA, Srivastava D, Tristani-Firouzi M, Newburger JW, Seidman JG, Seidman CE. Damaging variants in genes associated with increased cancer risk among congenital heart disease patients. ***JAMA Cardiology***. 2020. In Press.
13. Wagner M, Lévy J, Jung-Klawitter S, Bakhtiari S, Monteiro F, Maroofian R, Bierhals T, Hempel M, Elmaleh M, Kitajima JP, Kim CA, Salomao JG, Amor DJ, Cooper MS, Perrin L, Pipiras E, Neu A, Doosti M, Karimiani EG, Toosi MB, Houlden H, **Jin SC**, Si Y, Rodan LH, Venselaar H, Kruer M, Kok F, Hoffmann GF, Strom TM, Wortmann SB, Tabet A-C, Opladen T. Loss of TNR causes a non-progressive neurodevelopmental disorder with spasticity and transient opisthotonus. ***Genetics in Medicine***. 2020. PMID: 32099069.
14. Sullivan W, Reeves BC, Duy PQ, Nelson-Williams C, Dong W, **Jin SC**, Kahle KT. Exome sequencing is a critical diagnostic adjunct in sporadic congenital hydrocephalus. ***JAMA Pediatrics***. 2020. In Press.
15. Timberlake AT, **Jin SC**, Nelson-Williams C, Wu R, Furey CG, Islam B, Haider S, Loring E, Galm A, Yale Center for Genome Analysis, Steinbacher D, Larysz D, Staffenberg D, Flores R, Rodriguez E, Boggon TJ, Persing JA, Lifton RP. Damaging *de novo* and transmitted mutations in *TFAP2B* and genes of the BMP, WNT and Hedgehog pathways in syndromic craniosynostosis. ***PNAS.*** 2019 Aug 20;116(34):17130. PMID: 31292255.
16. Robson A, Makova S, Barish S, Zaidi S, Mehta S, Drozd J, **Jin SC**, Gelb B, Seidman C, Chung WK, Lifton RP, Khokha M, Brueckner M. Core components of the Histone H2B monoubiquitination complex regulate heart development via transcriptional control of cilia motility (2019). ***PNAS***. 2019 Jul 9;116(28):14049-14054. PMID: 31235600.
17. Chang SJ, **Jin SC**, Jiao X, Galán JE. Unique features in the intracellular transport of typhoid toxin revealed by a genome-wide screen. ***PLoS Pathogens.*** 2019 Apr 5;15(4):e1007704.
18. Helbig K, Laurerer R, Bahr J, Souza I, Myers C, Uysal B, Schwarz N, Gandini M, Huang S, Keren B, Mignot C, Afenjar A, Billette de Villemeur T, Heron D, Nava C, Valence S, Buratti J, Fagerberg C, Soerensen K, Kibaek M, Kamsteeg EJ, Koolen D, Gunning B, Schelhaas HJ, Kruer M, Fox Jordana, Bakhtiari S, Jarrar R, Padilla-Lopez SR, Lindstrom K, **Jin SC**, Zeng X, Bilguvar K, Papavasileiou A, Xing Q, Zhu C, Boysen K, Vairo F, Lanpher B, Klee E, Tilema JM, Payne E, Baker J, Haan E, Smith N, Corbett M, MacLennan A, Gecz J, Biskup S, Goldmann E, Rodan L, Kichula E, Segal E, Jackson K, Asamoah A, Dimmock D, McCarrier J, Botto L, Filloux F, Tvrdik T, Cascino G, Klingerman S, Neumann C, Wang R, Jacobsen J, Nolan M, Snell R, Lehnert K, Sadleir L, Guerrini R, Friez M, Lyons M, Achkar CE, Smith L, Rotenberg A, Poduri A, Sanchis-Juan A, Carss K, Rankin J, Zeman A, Raymond F, Hurles M, Blyth M, Kerr B, Ruiz K, Urquhart J, Hughes I, Banka S, Hedrich U, Scheffer I, Helbig I, Zamponi G, Lerche H, Mefford H. *De novo* pathogenic variants in *CACNA1E* cause developmental and epileptic encephalopathy with congenital contractures, macrocephaly, and dyskinesias. ***American Journal of Human Genetics***. 2018 Nov 1;103(5):666-678.PMID: 30343943
19. Furey CG, Zeng X*, Dong W*, **Jin SC**, Choi J, Timberlake AT, Dunbar AM, Allocco AA, Gunel M, Lifton RP, Kahle KT. Human genetics and molecular mechanisms of congenital hydrocephalus. ***World Neurosurgery***. 2018 Nov;119:441-443.PMID: 30205212.
20. Furey CG*, Choi J*, **Jin SC**, Zeng X, Timberlake AT, Nelson-Williams C, Mansuri MS, Lu Q, Duran D, Panchagnula S, Alloco A, Karimy JK, Gaillard J, Antwi P, Khanna A, Loring E, Butler WE, Smith ER, Warf BC, Limbrick DD, Storm PB, Heuer G, Iskandar BJ, Johnston JM, Bilguvar K, Mane S, Tikhonova I, Castaldi C, Lopez-Giraldez F, Knight J, Alper SL, Haider S, Guclu B, Bayri Y, Sahin Y, Duncan CC, DiLuna ML, Gunel M, Lifton RP, Kahle KT. (2018). *De novo* mutation in genes regulating neural stem cell fate in human congenital hydrocephalus. ***Neuron.*** 2018 Jul 25;99(2):302-314.e4. PMID: 29983323.
21. Fomchenko E*, Duran D*, **Jin SC**, Dong W, Erson-Omay EZ, Allocco A, Gaillard J, Cord B, Huttner A, Gunel M, DiLuna M, Kahle K. *De Novo MYH9* mutation in congenital scalp hemangioma. ***Cold Spring Harbor Molecular Case Studies***. 2018 Aug 1;4(4). pii: a002998.PMID: 29903892.

22. Antwi P, Hong CS, Duran D, **Jin SC**, Dong W, DiLuna M, Kahle, K. A novel association of campomelic dysplasia with hydrocephalus due to an unbalanced chromosomal translocation upstream of SOX9. ***Cold Spring Harbor Molecular Case Studies***. 2018 Jun 1;4(3). pii: a002766. PMID: 29695406.
23. Scholl UI, Stölting G*, Schewe J*, Thiel A, Tan H, Nelson-Williams C, Vichot AA**, Jin SC**, Loring E, Untiet V, Yoo T, Choi J, Xu S, Wu A, Kirchner M, Mertins P, Rump LC, Onder AM, Gamble C, McKenney D, Lash RW, Jones DP, Chune G, Gagliardi P, Choi M, Gordon R, Stowasser M, Fahlke C, Lifton RP. *CLCN2* chloride channel mutations in familial hyperaldosteronism type II. ***Nature Genetics***. 2018 Mar;50(3):349-354. PMID: 29403011.
24. Huang KL*, Marcora E*, Pimenova AA, Di Narzo AF, Kapoor M, **Jin SC**, Harari O, Bertelsen S, Fairfax BP, Czajkowski J, Chouraki V, Grenier-Boley B, Bellenguez C, Deming Y, McKenzie A, Raj T, Renton AE, Budde J, Smith A, Fitzpatrick A, Bis JC, DeStefano A, Adams HHH, Ikram MA, van der Lee S, Del-Aguila JL, Fernandez MV, Ibañez L; International Genomics of Alzheimer's Project; Alzheimer's Disease Neuroimaging Initiative, Sims R, Escott-Price V, Mayeux R, Haines JL, Farrer LA, Pericak-Vance MA, Lambert JC, van Duijn C, Launer L, Seshadri S, Williams J, Amouyel P, Schellenberg GD, Zhang B, Borecki I, Kauwe JSK, Cruchaga C, Hao K, Goate AM. A common haplotype lowers PU.1 expression in myeloid cells and delays onset of Alzheimer's disease. ***Nature Neuroscience***. 2017 Aug;20(8):1052-1061. PMID: 28628103.
25. Song W, Hooli B, Mullin K, **Jin SC**, Cella M, Ulland TK, Wang Y, Tanzi RE, Colonna M. Alzheimer's disease-associated *TREM2* variants exhibit either decreased or increased ligand-dependent activation. ***Alzheimer's & Dementia***, 2017 Apr;13(4):381-387. PMID:27520774.
26. Benitez BA, Davis AA, **Jin SC**, Ibanez L, Ortega-Cubero S, Pastor P, Choi J, Cooper B, Perlmutter JS, Cruchaga C. Resequencing analysis of five Mendelian genes and the top genes from genome-wide association studies in Parkinson's Disease. ***Molecular Neurodegeneration***. 2016 Apr 19;11:29. PMID: 27094865.
27. Homsy J*, Zaidi S*, Shen Y*, Ware JS*, Samocha KE, Karczewski KJ, DePalma SR, McKean D, Wakimoto H, Gorham J, **Jin SC**, Deanfield J, Giardini A, Porter GA Jr, Kim R, Bilguvar K, López-Giráldez F, Tikhonova I, Mane S, Romano-Adesman A, Qi H, Vardarajan B, Ma L, Daly M, Roberts AE, Russell MW, Mital S, Newburger JW, Gaynor JW, Breitbart RE, Iossifov I, Ronemus M, Sanders SJ, Kaltman JR, Seidman JG, Brueckner M, Gelb BD, Goldmuntz E, Lifton RP, Seidman CE, Chung WK. *De novo* mutations in congenital heart disease with neurodevelopmental and other congenital anomalies. ***Science***. 2015 Dec 4;350(6265):1262-6. PMID: 26785492.
28. Cruchaga C, Karch CM*, **Jin SC***, Benitez BA, Cai Y, Guerreiro R, Harari O, Norton J, Budde J, Bertelsen S, Jeng AT, Cooper B, Skorupa T, Carrell D, Levitch D, Hsu S, Choi J, Ryten M; UK Brain Expression Consortium, Hardy J, Ryten M, Trabzuni D, Weale ME, Ramasamy A, Smith C, Sassi C, Bras J, Gibbs JR, Hernandez DG, Lupton MK, Powell J, Forabosco P, Ridge PG, Corcoran CD, Tschanz JT, Norton MC, Munger RG, Schmutz C, Leary M, Demirci FY, Bamne MN, Wang X, Lopez OL, Ganguli M, Medway C, Turton J, Lord J, Braae A, Barber I, Brown K; Alzheimer's Research UK Consortium, Pastor P, Lorenzo-Betancor O, Brkanac Z, Scott E, Topol E, Morgan K, Rogaeva E, Singleton AB, Hardy J, Kamboh MI, St George-Hyslop P, Cairns N, Morris JC, Kauwe JS, Goate AM. Rare coding variants in the phospholipase D3 gene confer risk for Alzheimer's disease. ***Nature***. 2014 Jan 23;505(7484):550-554. PMID: 24336208.
29. Cruchaga C*, Kauwe JS*, Harari O, **Jin SC**, Cai Y, Karch CM, Benitez BA, Jeng AT, Skorupa T, Carrell D, Bertelsen S, Bailey M, McKean D, Shulman JM,De Jager PL, Chibnik L, Bennett DA, Arnold SE, Harold D, Sims R, Gerrish A, Williams J, Van Deerlin VM, Lee VM, Shaw LM, Trojanowski JQ, Haines JL, Mayeux R, Pericak-Vance MA, Farrer LA, Schellenberg GD, Peskind ER, Galasko D, Fagan AM, Holtzman DM, Morris JC; GERAD Consortium; Alzheimer's Disease Neuroimaging Initiative Alzheimer's Disease Genetic Consortium, Goate AM. GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease. ***Neuron***. 2013 Apr 24;78(2):256-68. PMID: 23562540.
30. Benitez BA, Karch CM, Cai Y, **Jin SC**, Cooper B, Carrell D, Bertelsen S, Chibnik L, Schneider JA, Bennett DA; Alzheimer's Disease Neuroimaging Initiative; Genetic and Environmental Risk for Alzheimer's Disease Consortium, Fagan AM, Holtzman DM, Morris JC, Goate AM, Cruchaga C. The PSEN1, p.E318G variant increases the risk of Alzheimer's disease in *APOE*-ε4 carriers. ***PLoS Genetics*** 2013;9(8):e1003685. PMID: 23990795.

31. Benitez BA, Cooper B, Pastor P, **Jin SC**, Lorenzo E, Cervantes S, Cruchaga C. *TERM2* is associated with the risk of Alzheimer's disease in Spanish population. ***Neurobiology of Aging***. 2013 Jun;34(6):1711.e15-7. PMID: 23391427.
32. Patel PJ, Beaty TH, Ruczinski I, Murray JC, Marazita ML, Munger RG, Hetmanski JB, Wu T, Murray T, Rose M, Redett RJ, **Jin SC**, Lie RT, Su-Chou YH, Wang H, Ye X, Yeow V, Chong S, Jee SH, Shi B, Scott AF. X-linked Markers in the Duchenne Muscular Dystrophy Gene Associated with Oral Clefts. ***European Journal of Oral Sciences***. 2013 Apr;121(2):63-8. PMID: 23489894.
33. Wang H, Zhang T, Wu T, Hetmanski JB, Ruczinski I, Schwender H, Murray T, Fallin MD, Redett RJ, Raymond GV, **Jin SC**, Wu-Chou YH, Chen PK, Yeow V, Chong SS, Cheah FS, Jee SH, Jabs EW, Liang KY, Scott A, Beaty TH. The *FGF*&*FGFR* gene family and risk of cleft lip with or without cleft palate. ***The Cleft Palate-Craniofacial Journal***. 2013 Jan;50(1):96-103. PMID: 22074045.
34. Beaty TH, Ruczinski I, Murray JC, Marazita ML, Munger RG, Hetmanski JB, Murray T, Redett RJ, Fallin MD, Liang KY, Wu T, Patel PJ, **Jin SC**, Zhang TX, Schwender H, Wu-Chou YH, Chen PK, Chong SS, Cheah F, Yeow V, Ye X, Wang H, Huang S, Jabs EW, Shi B, Wilcox AJ, Lie RT, Jee SH, Christensen K, Doheny KF, Pugh EW, Ling H, Scott AF. Evidence for gene-environment interaction in a genome wide study of isolated, nonsyndromic cleft palate. ***Genetic Epidemiology***. 2011 Sep;35(6):469-78. PMID: 21618603.
35. Beaty TH, Murray JC, Marazita ML**,** Munger RG, Ruczinski I, Hetmanski JB, Liang KY, Wu T, Murray T, Fallin MD, Redett RA, Raymond G, Schwender H, **Jin SC**, Cooper ME, Dunnwald M, Mansilla MA, Leslie E, Bullard S, Lidral AC, Moreno LM, Menezes R, Vieira AR, Petrin A, Wilcox AJ, Lie RT, Jabs EW, Wu-Chou YH, Chen PK,.Wang H, Ye X, Huang S, Yeow V, Chong SS, Jee SH, Shi B, Christensen K, Melbye M, Doheny KF, Pugh EW, Ling H, Castilla EE, Czeizel AE, Ma L, Field LL, Brody L. Pangilinan F, Mills JL, Molloy AM, Kirke PN, Scott JM, Arcos-Burgos M, Scott AF. A genome-wide association study of cleft lip with and without cleft palate identifies risk variants near *MAFB* and *ABCA4*. ***Nature Genetics***. 2010 Jun;42(6):525-9. PMID: 20436469.
36. Caporaso N*, Gu F*, Chatterjee N*, **Jin SC**, Yu K, Yeager M, Chen C, Jacobs K, Wheeler W, Landi MT, Ziegler RG, Hunter DJ, Chanock S, Hankinson S, Kraft P, Bergen AW. (2009). Genome-wide and candidate gene association study of cigarette smoking behavior. ***PLoS ONE***, 4(2):e4653. PMID: 19247474.

**Book Chapter**

37. **Jin SC**, Benitez BA, Deming Y, Cruchaga C. Pooled-DNA sequencing for elucidation of genomic risk factors/rare variants underlying Alzheimer's disease. ***Methods Mol Biol***. 2016;1303:299-314. PMID: 26235075.

**Reviews**

38. Zeng X, Hunt A, **Jin SC**, Duran D, Gaillard J, Kahle KT. EphrinB2-EphB4-RASA1 signaling in human cerebrovascular development and disease. ***Trends in Molecular Medicine.*** 2019 Apr;25(4):265-286. PMID:26235075.

## CURRENT AND PENDING SUPPORT

**Active**

4R00HL143036-02 (Jin) 4/1/2020-3/31/2021 3.0 CM
NIH/NHLBI (pending K99 completion)
*Integrative Genomic Analysis of Congenital Heart Disease*
Role: PI

1R01NS109358 (Kahle) 4/1/2020-8/31/2024 2.4 CM
NIH/NINDS (Active)
Subaward to Yale University
*Human genetics and molecular mechanisms of congenital hydrocephalus*
Role: Co-Investigator

**Pending**

R01 (Kahle/Boggon) 4/1/2020-11/30/2024 0.6 CM
NIH/NINDS (Funded)

Subaward to Yale University
*Human genetics and molecular mechanisms of Vein of Galen aneurysmal malformation*
Role: Co-Investigator

R01 (Dobbs/Gurnett) 7/1/2020-6/30/2025 0.6 CM
NIH/NIAMS (Funded)
*Genetic risk factors for severe scoliosis*
Role: Co-Investigator

## SELECTED/INVITED TALKS

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| Oct. 2019 | **Selected talk**, NHLBI Bench to Bassinet Program Annual Face-To-Face Conference, Rockville, MD |
| Sept. 2019 | **Invited talk**, The 3rd International Cerebral Palsy Genomics Consortium Conference, Anaheim, CA |
| Jan. 2019 | **Invited talk**, Waisman Center, University of Wisconsin - Madison |
| Jan. 2019 | **Invited talk**, Mindich Child Health and Development Institute, Icahn School of Medicine at Mount Sinai |
| Dec. 2018 | **Invited talk**, National Taiwan University College of Medical Institute of Medical Genomics and Proteomics |
| Nov. 2018 | **Invited talk**, Institute for Genomic Medicine, Nationwide Children's Hospital |
| Nov. 2018 | **Invited talk**, Eugene McDermott Center for Human Growth and Development, University of Texas Southwestern Medical Center |
| Sept. 2018 | **Invited talk**, Department of Genetics, Washington University in St. Louis |
| June 2018 | **Invited webinar**, Rare Disease Seminar Series |
| April 2018 | **Invited keynote presentation**, The 2nd International Cerebral Palsy Genomics Consortium Conference, Zhengzhou, China |
| Dec. 2017 | **Invited talk**, Institute of Biomedical Sciences, Academia Sinica, Taiwan |
| Oct. 2017 | **Selected talk**, NHLBI Bench to Bassinet Program Annual Face-To-Face Conference, Rockville, MD |
| Dec. 2016 | **Selected talk**, NHLBI Bench to Bassinet Program Annual Face-To-Face Conference, Rockville, MD |
| Feb. 2016 | **Invited talk**, Institute of Biomedical Sciences, Academia Sinica, Taiwan |
| July 2014 | **Selected talk**, Alzheimer's Association International Conference, Copenhagen, Denmark |
| July 2012 | **Selected talk**, Alzheimer's Association International Conference, Vancouver, Canada |

## TEACHING AND MENTORING

Sept. 2014-Present I trained and helped supervise 4 graduate students, 5 medical students, and 2 postdoctoral fellows in the Lifton lab to conduct research projects, perform whole exome/genome sequencing genomic analyses, downstream statistical algorithms, and mentored them on writing proposals and career development.

Sept. 2011–Feb 2012 **Teaching Assistant**, Washington University in St. Louis

- Presented lectures; assisted in quiz and exam preparation for a graduate course "Human Linkage and Association"

Sept. 2007–May 2008 **Teaching Assistant**, Johns Hopkins University

- Presented lectures; assisted in quiz and exam preparation for a graduate course "Statistical Methods in Public Health"

## PROFESSIONAL SERVICE

| | |
|---|---|
| 2013-Present | Ad hoc reviewer for *BMC Neurology*, *Journal of Alzheimer's Disease, Molecular Neurodegeneration, Alzheimer's & Dementia*, *European Heart Journal* |
| 2013-Present | Review editor for *Frontiers in Genetics, section Neurogenomics* |