Curriculum Vitae WUSM Format
Sheng Chih Jin, Ph.D.

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Name Jin, Sheng Chih

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Present Position:

April 2020 – Present, Assistant Professor of Genetics and Pediatrics

Education:

National Chiao Tung University, Hsinchu, Taiwan, 2000 – 2004
B.S., Applied Mathematics

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, 2006 – 2008
ScM, Biostatistics

Washington University School of Medicine, St. Louis, MO, USA, 2010 – 2014
Ph.D., Human & Statistical Genetics (Advisors: Alison Goate and Carlos Cruchaga)

Yale School of Medicine, New Haven, CT, USA, 2014 – 2018
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Rockefeller University, New York, NY, USA, 2018 – 2020
Postdoctoral Fellow (Advisors: Richard P. Lifton, Martina Brueckner, and Hongyu Zhao)

Academic Positions / Employment:

2020 – Assistant Professor of Genetics and Pediatrics
Washington University School of Medicine

Honors and Awards:

2007	Cancer Research Training Award, Biostatistics Branch, Division of Cancer Epidemiology & Genetics, National Cancer Institute, NIH
2007	Departmental Scholarship, Department of Biostatistics, Johns Hopkins University
2011	Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship, Markey Foundation, Washington University School of Medicine
2012	Alzheimer's Disease International Conference Travel Fellowship, Alzheimer's Association
2012	Best Oral Presentation Award, Human and Statistical Genetics Program 2012 Retreat
2014	Finalist, Fourth Annual Hope Center Retreat Poster Session, Hope Center for Neurological Disorders, Washington University School of Medicine
2014	Howard Hughes Medical Institute Postdoctoral Fellowship, Department of Genetics, Yale University School of Medicine
2015	James Hudson Brown – Alexander Brown Coxe Postdoctoral Fellowship in the Medical Sciences, Yale University School of Medicine
2018	American Heart Association Postdoctoral Fellowship
2019	NIH/NHLBI K99/R00 Pathway to Independence Award
2019	Postdoctoral Association Career Development Award, Rockefeller University
2020	Rockefeller University Nominee, Blavatnik Regional Award for Young Scientists
2021	Children's Discovery Institute Faculty Scholar, St. Louis Children's Hospital
2021	Hydrocephalus Association Innovator Award
2022	Pediatric Cardiac Genomics Consortium and Cardiovascular Development Data Resource Center Challenge Prize

Editorial Responsibilities:

2013 –	**Ad Hoc Reviewer**, Trends in Genetics, Genome Research, European Heart Journal, npj Genomic Medicine, Brain, Molecular Neurodegeneration, BMC Neurology, Journal of Alzheimer's Disease, Alzheimer's & Dementia, Genes, Journal of Medical Genetics, Biomolecules, STAR Protocols, Journal of Personalized Medicine
2013 –	**Review Editor**, Frontiers in Genetics, Neurogenomics Section

National Panels, Committees, Boards:

N/A

Community Service Contributions:

- **University Appointments and Committees**

2020 – **Member**, DBBS Admissions Committee B, Washington University School of Medicine
2023 – **Coordinator**, Hope Center Monday Noon Seminars

- **Professional Societies and Organizations**

2011 – **Member**, American Society of Human Genetics
2015 – **Member**, American Heart Association
2023 **Planning Committee**, Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop

Major Invited Professorships and Lectureships:

2012 **Selected Oral Presentation**, Alzheimer's Association International Conference (from submitted abstract), Vancouver, Canada
2014 **Selected Oral Presentation**, Alzheimer's Association International Conference (from submitted abstract), Copenhagen, Denmark
2016 **Invited Talk**, Institute of Biomedical Sciences, Academia Sinica, Taiwan
2017 **Selected Oral Presentation**, NHLBI Bench to Bassinet Program Annual Face-to-Face Meeting, Rockville, MD
2017 **Invited Talk**, Institute of Biomedical Sciences, Academia Sinica, Taiwan
2017 **Invited Keynote Presentation**, International Cerebral Palsy Genomics Consortium Conference, Zhengzhou, China
2018 **Invited Talk**, Department of Genetics, Washington University School of Medicine
2018 **Invited Talk**, Eugene McDermott Center for Human Growth and Development, University of Texas Southwestern Medical Center
2018 **Invited Talk**, Institute for Genomic Medicine, Nationwide Children's Hospital
2018 **Invited Talk**, National Taiwan University College of Medical Institute of Medical Genomics and Proteomics
2019 **Invited Talk**, Waisman Center, University of Wisconsin – Madison
2019 **Invited Talk**, Mindich Child Health and Development Institute, Icahn School of Medicine at Mount Sinai
2019 **Invited Talk**, International Cerebral Palsy Genomics Consortium Conference, Anaheim, CA
2020 **Selected Oral Presentation**, American Society of Human Genetics (from submitted abstract), Virtual Meeting
2021 **Invited Talk**, Mount Sinai x Open Box Science Computational Omics Seminar
2021 **Invited Talk**, Washington University School of Medicine, Pediatric Neurology Research Working Group

2021 **Invited Talk**, Washington University School of Medicine, Division of Genetics and Genomic Medicine
2021 **Invited Talk**, Boston Taiwanese Biotechnology Association Monthly Seminar Series
2021 **Invited Talk**, Washington University Department of Developmental Biology Seminar Series
2021 **Invited Talk**, Washington University Department of Computer Science & Engineering Colloquia Series
2022 **Invited Talk**, Washington University MSTP Future of Medicine Seminar
2022 **Invited Talk**, Washington University School of Medicine, Center for Cardiovascular Research Seminar Series
2022 **Invited Talk**, Hydrocephalus Association Network for Discovery Science Webinar Series
2023 **Invited Talk**, Genomic Information Commons Working Group Meeting
2023 **Invited Talk**, Washington University Intellectual and Developmental Disabilities Research Center Inaugural Symposium
2023 **Invited Talk**, Hydrocephalus Association & Rudi Schulte Research Institute Research Workshop

Consulting Relationships and Board Memberships:

N/A

Internal Review Work

2021 **Ad Hoc Reviewer**, Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences
2022 **Ad Hoc Reviewer**, NGI Pilot Awards, Washington University NeuroGenomics and Informatics Center
2022 **Ad Hoc Reviewer**, Clinical and Translational Research Funding Program, Washington University Institute of Clinical and Translational Sciences

External Review Work

2022 **Grant Reviewer**, Hydrocephalus Association Innovator Award
2023 **Ad Hoc Reviewer**, NIH, Cardiovascular and Respiratory Diseases Study Section
2023 **Grant Reviewer**, Hydrocephalus Association Innovator Award
2023 **Grant Reviewer**, Sidra Medicine Precision Medicine Challenge Award (IRF 24)

Research Support

- **Governmental**

Title: WashU Somatic Mosaicism across Human Tissues (SMaHT) Program. Organizational Center
Agency: NIH U24NS132103
Role: Co-Investigator
Duration: 4/15/2023–03/31/2028
Amount: $7,470,939 total costs

Title: WashU-VAI Somatic Mosaicism across Human Tissues (SMaHT) Program. Genome Characterization Center
Agency: NIH UM1DA058219
Role: Co-Investigator
Duration: 5/01/2023–04/30/2028
Amount: $1,499,999 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
Agency: NIH/NINDS U19NS130607
Role: Co Principal Investigator (Project 1: Milbrandt/DiAntonio/Jin)
Duration: 12/01/2022–11/30/2027
Amount: $3,644,291 Project 1 total costs

Title: INTERCEPT: Integrated Research Center for Human Pain Tissues
Agency: NIH/NINDS U19NS130607
Role: Co Principal Investigator (Data Core: Jin/Zhao)
Duration: 12/01/2022–11/30/2027
Amount: $694,321 Data Core total costs

Title: Genomic analysis of the Multiplex, Autozygous Populations in Cerebral Palsy (MAP CP) cohort: a focused approach to a complex disease
Agency: NIH/NINDS R01NS127108
Role: Co-Investigator
Duration: 02/01/2023–01/31/2028
Amount: $421,321 total costs

Title: Human Genetics and Molecular Mechanisms of Congenital Hydrocephalus
Agency: NIH/NINDS 1R01NS1111029
Role: Co-Investigator
Duration: 04/01/2020 – 01/31/2025
Amount: $199,706 total sub costs

Title: Human Genetics and Molecular Mechanisms of Vein of Galen Malformation
Agency: NIH/NINDS 1R01NS117609
Role: Co-Investigator (Subaward to Yale University)
Duration: 07/01/2020 – 06/30/2024
Amount: $172,000 total sub costs

Title: Genetic Risk Factors for Severe Scoliosis

Agency: NIH/NIAMS 2R01AR067715
Role: Co-Investigator
Duration: 07/01/2020 – 06/30/2024
Amount: $3,248,850 total costs (Salary Support only)

Title: Genomic Insights into the Neurobiology of Cerebral Palsy
Agency: NIH/NINDS 5R01NS106298
Role: Co-Investigator
Duration: 04/01/2019 – 12/31/2023
Amount: $19,770 total sub costs
Title: Integrative Genomic Analysis of Congenital Heart Disease
Agency: NIH/NHLBI 4R00HL143036
Role: Principal Investigator
Duration: 04/01/2020 – 03/31/2023
Amount: $730,167 total costs

- **Non-Governmental**

Title: Discovery of novel genetic variations in cerebral palsy by whole genome sequencing
Agency: Cerebral Palsy Alliance Research Foundation
Role: Principal Investigator
Duration: 06/01/2022 – 05/31/2027
Amount: $225,000

Title: A Genome-Wide Assessment of Noncoding Risk Variants in Congenital Hydrocephalus
Agency: Hydrocephalus Association
Role: Principal Investigator
Duration: 12/31/2021 – 12/30/2022
Amount: $50,000

Title: Human Genetics and Molecular Mechanisms of Cerebral Palsy
Agency: Children's Discovery Institute - St. Louis Children's Hospital
Role: Principal Investigator
Duration: 10/01/2021 – 09/30/2026
Amount: $300,000

Title: Long-Read Genome Sequencing and Integrative Genomic Analysis for Cerebral Palsy
Agency: CTRFP - Washington University Institute of Clinical and Translational Sciences
Role: Principal Investigator
Duration: 03/01/2021 – 02/28/2022
Amount: $50,000

Title: Functional characterization of the Diaph1 gene using the zebrafish knock model
Agency: Children's Discovery Institute - St. Louis Children's Hospital
Role: Principal Investigator
Duration: 02/05/2021 – 06/30/2023 (No cost extension)
Amount: $10,000

Undergraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Joshipura, Kareena	6/2021 – 8/2021	Human genetics of cerebral palsy	Mount Holyoke College's Lynk Fellowship	BS Student Mount Holyoke College
Wrubel, Max	11/2021 – 7/2022	Human genetics of cerebral palsy	Post-Baccalaureate Extensive Study Program	Bioinformatician Mount Sinai
Marcial-Rodriguez, Athziri	6/2022 – 8/2022	Human genetics of congenital hydrocephalus	MGI OGR Summer Undergraduate Scholars Program	BS Student St. Olaf College
Shelton, Cabria	6/2022 – 8/2022	Human genetics of patent ductus arteriosus	MGI OGR Summer Undergraduate Scholars Program	BS Student Rhodes College
Iyiyol, Tugce	8/2022 –	Role of transposable elements in rare pediatric movement disorders		BS Student WUSTL
Ruttenberg, Andrew	8/2022 –	Role of structural variation in rare pediatric movement disorders		BS Student WUSTL

Graduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Ulibarri, Jenna	7/2023	Proteogenomics in peripheral neuropathy	Start-up	PhD Student WUSTL
Tang, Zitian	5/2023	Impact of repeat expansion in	Start-up	PhD Student WUSTL

		peripheral neuropathy		
Dong, Wendy (joint with Jeffrey Milbrandt)	3/2023 –	Functional genetics of peripheral neuropathy	WashU T32	MSTP Candidate WUSTL
Zhao, Shujuan (joint with Kris Kahle at MGH)	9/2020 –	Human genetics of Vein of Galen Malformation	R01NS117609 + R00HL143036 + Markey Pathway	PhD Candidate WUSTL
Choi, Julie (joint with Jeffrey Milbrandt)	4/2022 –	Human genetics of peripheral neuropathy	WashU T32GATP	PhD Candidate WUSTL
Kong, Nahyun	4/2022 –	Human genetics of rare movement disorders	Start-up + Study Abroad Scholarships from the Mogam Science Scholarship Foundation	PhD Candidate WUSTL
Qiu, Tian (Devin)	7/2022–12/2022	Human genetics of rare movement disorders	R00HL143036	PhD Student Van Andel Institute
Peters, Samuel	5/2020 – 4/2021	Human genetics of primary Moyamoya disease	R00HL143036	MS Student SLU
King, Spencer	5/2020 – 5/2021	Human genetics of cerebral palsy	R00HL143036	Data Scientist Geneoscopy
Yu, Xiaobing	2/2021 – 11/2021	Single-cell RNA-sequencing analysis for rare neurological disorders	R00HL143036	PhD Student WUSTL
Shaffiey, Shohaib	2/2021 – 5/2021	Whole genome sequencing analysis for rare neurological disorders	R00HL143036	MS Student WUSTL

Postgraduate Mentoring:

Trainee	Period	Project Title	Support	Current Position
Wang, Yung-Chun	6/2021 –	Human genetics of cerebral palsy	R00HL143036 + R01NS127108	Postdoctoral Fellow

Fellowships/Scholarships/Grants to Postdocs/Students:

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Zitian Tang
Role: Sponsor
Duration: 08/2023 – 08/2025
Amount: $0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Zitian Tang
Role: Sponsor
Duration: 07/2023
Amount: $500

Study Abroad Scholarships
Agency: Mogam Science Scholarship Foundation
Postdoc(s)/Student(s): Nahyun Kong
Role: Sponsor
Duration: 1/2023
Amount: $10,000 (one-time allowance)

Washington University's T32 Genome Analysis Training Program
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Julie Choi
Role: Sponsor
Duration: 10/2022 – 09/2023
Amount: $34,500/year

Lucille P. Markey Special Emphasis Pathway in Human Pathobiology Fellowship
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Shujuan Zhao
Role: Sponsor
Duration: 08/2022 – 08/2024
Amount: $4,000 (one-time stipend supplement)

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Julie Choi
Role: Sponsor
Duration: 08/2022 – 08/2024

Amount: $0

Precision Medicine Pathway
Agency: Washington University School of Medicine
Postdoc(s)/Student(s): Nahyun Kong
Role: Sponsor
Duration: 08/2022 – 08/2024
Amount: $0

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Shujuan Zhao
Role: Sponsor
Duration: 07/2022
Amount: $900

Scholarships to attend Jackson Laboratory's Human and Mammalian Genetics and Genomics: The McKusick Short Course
Agency: Jackson Laboratory
Postdoc(s)/Student(s): Max Wrubel
Role: Sponsor
Duration: 07/2022
Amount: $1,800

Center of Regenerative Medicine Postdoctoral Fellowship
Title: Human genomics and molecular mechanisms of Sporadic Moyamoya disease
Agency: Washington University Center of Regenerative Medicine
Postdoc(s)/Student(s): Yung-Chun (David) Wang
Role: Sponsor
Duration: 07/01/2021
Amount: $10,000 (signing bonus)

NIH TL1 Predoctoral Clinical Research Training Fellowship (Declined)
Title: Integrative Genomic Analysis of Cerebral Palsy and Rare Pediatric Movement Disorders
Agency: Washington University Clinical Research Training Center
Postdoc(s)/Student(s): Amar Sheth
Role: Sponsor
Duration: 06/01/2021 – 05/31/2022
Amount: $2,110/month

Thesis Committee Advisees:

Ciyang Wang DBBS Molecular Genetics and Genomics

Chengran Yang	DBBS Human and Statistical Genetics
Tong Wu	Biomedical Engineering
Caitlin Dingwall	WashU MSTP
Kuangying Yang	DBBS Human and Statistical Genetics
Gervette M. Penny	DBBS Molecular Genetics and Genomics
Travis Law	DBBS Computational and Systems Biology

Qualifying Exam Committee:

Ji-Sun Kwon	DBBS Computational and Systems Biology
Evelyn Craigen	DBBS Molecular Genetics and Genomics (Chair)
Dan Western	DBBS Human and Statistical Genetics
Kuangying Yang	DBBS Human and Statistical Genetics
Grace Cooper	DBBS Human and Statistical Genetics (Chair)
Paul Lee	WashU MSTP (Chair)
Juanru Guo	DBBS Computational and Systems Biology
Mariam Khanfar	DBBS Human and Statistical Genetics (Chair)
Chia-Jung Lee	DBBS Computational and Systems Biology

Patents:

N/A

Teaching Responsibilities:

2021 – 2022	Lecturer, Bio5488: Genomics, Washington University School of Medicine
2021 – 2022	Study Section Co-Leader, Bio5491: Advanced Genetics, Washington University School of Medicine
2022 –	Lecturer, Bio5487: Genetics & Genomics of Disease, Washington University School of Medicine
2022 –	Co-director, Bio5488: Genomics, Washington University School of Medicine
2023 –	Immersion Program Leader, Washington University School of Medicine
2023 –	Lecturer, Bio5285: Current Topics in Human and Mammalian Genetics, Washington University School of Medicine

Bibliography:

- **Peer Reviewed Manuscripts (* Equal contribution; # Co-corresponding; Lab members in bold)**

1. 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.

2. 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. (2010). A genome-wide association study of cleft lip with and without cleft palate identifies risk variants near MAFB and ABCA4. ***Nature Genetics***, 42(6):525-529.
3. 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. (2011). Evidence for gene-environment interaction in a genome wide study of isolated, nonsyndromic cleft palate. ***Genetic Epidemiology***, 35(6):469-478.
4. **Jin SC**, Pastor P, Cooper B, Cervantes S, Benitez BA, Razquin C, Goate AM, Ibero-American Alzheimer's Disease Genetics Group Researchers, Cruchaga C. (2012). 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.*** 4(4):34.
5. 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. (2013). The FGF&FGFR gene family and risk of cleft lip with or without cleft palate. ***The Cleft Palate-Craniofacial Journal***, 50(1):96-103.
6. 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. (2013). X-linked Markers in the Duchenne Muscular Dystrophy Gene Associated with Oral Clefts. ***European Journal of Oral Sciences***, 121(2): 63-68.
7. Benitez BA, Cooper B, Pastor P, **Jin SC**, Lorenzo E, Cervantes S, Cruchaga C. (2013). TERM2 is associated with the risk of Alzheimer's disease in Spanish population. ***Neurobiology of Aging***, 34(6): 1711.e15-1711.e17.
8. 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. (2013). The PSEN1, p.E318G variant increases the risk of Alzheimer's disease in APOE-ε4 carriers. ***PLoS Genetics***, 9(8): e1003685.
9. 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. (2013). GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease. ***Neuron***, 78(2):256-268.

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. (2014). Missense variants in *TREML2* protects against Alzheimer's disease. ***Neurobiology of Aging***, 35(6): 1510.e19-1510.e26.
11. **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. (2014). Coding variants in *TREM2* increase risk for Alzheimer's disease. ***Human Molecular Genetics***, 23(21): 5838-5846.
12. 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. (2014). Rare coding variants in the phospholipase D3 gene confer risk for Alzheimer's disease. ***Nature***, 505(7484): 550-554.
13. **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. (2015). *TERM2* is associated with increased risk for Alzheimer's disease in African Americans. ***Molecular Neurodegeneration***, 10; 10:19.
14. 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. (2015). *De novo* mutations in congenital heart disease with neurodevelopmental and other congenital anomalies. ***Science***, 350(6265):1262-1266.
15. Song W, Hooli B, Mullin K, **Jin SC**, Cella M, Ulland TK, Wang Y, Tanzi RE, Colonna M. (2016). Alzheimer's disease-associated TREM2 variants exhibit either decreased or increased ligand-dependent activation. ***Alzheimer's & Dementia***, 13(4): 381-387.

16. Benitez BA, Davis AA, **Jin SC**, Ibanez L, Ortega-Cubero S, Pastor P, Choi J, Cooper B, Perlmutter JS, Cruchaga C. (2016). Resequencing analysis of five Mendelian genes and the top genes from genome-wide association studies in Parkinson's Disease. ***Molecular Neurodegeneration***, 19; 11:29.
17. 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. (2016). Digenic mutations of human OCRL paralogs in Dent's disease type 2 associated with Chiari malformation. ***Human Genome Variation***, 3:16042.
18. **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***, 49(11): 1593-1601.
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