Curriculum Vitae

Chun Xu M.D., MSc, Ph.D.
Citizenship: Canadian, US Permanent resident **Current Position:** Associate professor
Email: chun.xu@utrgv.edu **Telephone:** 956-882-4193 (office)

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Education

Ph.D. in Neurology and Neurogenetics at Department of Neurology, Karolinska Institute, Stockholm, Sweden.
Doctoral Thesis: Candidate genes and chromosomal loci in multiple sclerosis
Master's Degree in cancer genetics and biology at Department of GYN/OBS, Harbin Medical University (HMU)
M.D. Department of Medicine, HMU

Professional Working Experience

August 22, 2019-present: Tenured associate professor at University of Texas Rio Grande Valley (UTRGV)
September 1, 2016-2019: Tenure-Track assistant professor at the UTRGV
Translational research: work with biomedical science students, junior faculty, clinicians (including psychiatrists and oncologists) and researchers on the study design, statistical analysis, interpreted results and writing manuscripts.
Teaching: several courses on biomedical science (please see the courses I teach) and mentor many students on environmental and biomarker identification for human complex disorders and human healthy aging
Feb. 1, 2011-present, an assistant professor (Tenure-Track) at Texas Tech University Health Sciences Center-El Paso, Departments of Pediatrics and Psychiatry and at the University of Texas Rio Grande Valley (UTRGV). My responsibility: research and teaching in clinical genetics, population genetics, human molecular genetics, and pharmacogenetics/pharmacogenomics genetics for human diseases using cutting edge technology (e.g., next generation sequencing). In addition to research, I teach seven lectures for clinical residents, two lectures for medical students and graduate students (for detail, please see my Teaching Statement). Over 20scientific papers published, three more manuscripts submitted in collaboration with other faculties.
Clinical research: I have also clinical working experience, particularly on recruiting psychiatric patients (early 2004 - present) using DSM-IV criteria, a best-estimation consensus procedure using the Diagnostic Interview for Genetic Studies (DIGS) and asking eligible patients or families to give written consent and complete questionnaires for a number of research projects, including neuropsychiatric patients.
Translational research: supervised clinicians (including psychiatrists and oncologists) and researchers on their study design, statistical analysis, interpreted results and writing manuscripts.
I have completed a number of Institutional Review Board (IRB) protocols and obtained seven IRBs successfully for my research projects.

2007- 2011 A research scientist (Non-Tenure-Track faculty) at Princess Margaret Hospital/ University Health Network.
Actively involved in research and teaching in clinical genetics, population genetics, pharmacogenetics/pharmacogenomics, and human genetics for human diseases. Supervising a number of junior faculties, residents, graduate students, research associates on their research projects
Translational research: supervised clinicians and researchers on their study design, statistical analysis, interpreted results and writing manuscripts
Teaching: mentor and supervise students and clinicians on their research projects on genetic basis for neuropsychiatric disorders, autoimmune disorders and also teach pharmacology for medical students between June 2009-Dec 2009.
2002 – 2007 A postdoctoral fellow (PDF) and research scientist (Non Tenure-Track) at CAMH, Toronto, Canada
Clinical research: I have also many year clinical working experience, particularly on recruiting psychiatric patients (early 2004 - present) using DSM-IV criteria, a best-estimation consensus procedure using the Diagnostic Interview for Genetic Studies (DIGS) and asking eligible patients or families to give written consent and complete questionnaires for a number of research projects, including neuropsychiatric patients.
Translational research: supervised clinicians and researchers on their study design, statistical analysis, interpreted results and writing manuscripts
2000 – 2002 A PDF at Department of Pharmacology, University of Toronto, Canada
1999 – 2000 A PDF at Toronto Western Hospital, Toronto, Canada
1996-1999 Ph.D. Student Representative at Department of Neurology, Karolinska Institute, Stockholm, Sweden
1992 – 1994 A visiting research scientist, Karolinska Institute, Stockholm, Sweden

1990 – 1992 A Gynecologist, Obstetrician and lecturer, Harbin Medical University (HMU), China
Clinic and teaching: my responsibilities include providing prenatal, intrapartal, and postpartum careto high risk and routine obstetrical patients. Perform physical assessment for obstetrical and gynecologic patients, family planning needs, and acute minor gyn. problems. Provide individual counseling, referrals, and education for women. Write and coordinate patient care protocols for midwifery care within the practice setting.
Genetic counseling: my responsibilities include helped people with a family history of genetic disorders to have healthy babies; counsel patients who are at risk of inheriting a genetic disease, about their options.

Course taught

Year	Course Names	Institutions
2016-present	BMED3221: Independent Research I	UTRGV
	BMED3222 Independent Research II	
	BMED3223: Independent Research III	
	BMED3224: Independent Research IV	
	BMED4230: Human Genetics and Medical Genomics	
	BMED4220: Medical Bioinformatics, Genomics and Systems Biology	
	BMED4260: Advanced Molecular Biology	
	BMED1105: Intro to Medical Genetics	
	BMED1109: Introduction to Evolutionary Medicine	
2011-2016	U10CP8: Human Genetics and Pharmacogenomics	TTUSHC
	GBSE5221: Advanced Human Genetics and Clinical Genetics	
	GBSE5225: Immunology and Clinical Immunology	
2008-2011	Human Genetics and Pharmacogenomics	University of Toronto
	Molecular Biology	

Awards and Distinctions (past five years)

2013 Research award at Critical Research Initiatives of Latino Mental Health Conference in Tampa, FL
2007-2009 NARSAD Young Investigator Awards (US$60,000, July 2007 and June 2009)

Research Support
Ongoing Research Support
UTRGV research fellow grant, 2016-2017, **Role: PI**

Pending Research Support
1. LncRNA involved in developments of schizophrenia and bipolar disorder. **Role: PI**
2. NIH- Academic Research Enhancement Award (R15): DNA methylation drives gene expression involved in developments of schizophrenia and bipolar disorder Amount: $300,000 for 3 years. **Role: PI**
3. UTRGV-Seed Grant: Repository and Biomarker Discovery for Psychiatric Disorders in the Latino/other populations Amount: $200,000 for 1 year **Role: PI**
4. UTRGV-Seed Grant: Naturalistic Teaching Environments Enhanced with Milieu Method in Speech Intervention: A Structured Analysis Linked with Biomarker Identification, Amount: $200,000 for 1 year, **Role: Co-PI**

Previous Research Support
1. TTUHSC Seed Grant: Whole exome sequencing of neurodevelopmental disorders: a step toward personalized medicine, $25,000, 2014-2016, **Role: PI**
2. A grant of TTUHSC 2014-2016, ADHD risk factors in the Latino population, **Role: PI**
3. A grant of TTUHSC 2013-2016, Gene discover for neurodevelopmental disorders using whole exome sequencing-steps toward personalized medicine, **Role: PI**
4. TTUHSC Seed Grant: Gene discovery for genetically determined pediatric-onset epilepsies from a predominately Latino population $25,000, 2015-2016, **Role: PI**

5. TTUHSC Seed Grant: Whole exome sequencing of neurodevelopmental disorders: a step toward personalized medicine, $25,000, 2014-2015, **Role: PI**
6. Population Based Mapping of Schizophrenia Genes (RO1MH061884), **Role: Co-Investigator**
7. Genetics Basis of Familial Schizophrenia in Latino Populations (NIH Parent RO1) **Role: Co-Investigator**
8. NARSAD Young Investigator Award (US$60,000, July 2007 and June 2009)
9. Genetic Variation in Transient Receptor Potential Protein Melastatin type 2 and Vulnerability to Bipolar Disorder, ($160,000, CIHR 2005-2008)
10. Applied Biosystems Real-Time PCR Awards Program for wining an Applied Biosystems 7900 Real-Time PCR System

Service for Scientific Journals

As an editorial board member for Journal of Addiction Medicine & Therapy
As an editorial board member for JSM Alzheimer's disease and Related Dementia

As an external reviewer for

1. Journal of Affective Disorders, 2018, Manuscript ID JAD_2018_1773
2. BMC Neuroscience 2017 Manuscript ID: BR - 2017
3. Preventive Medicine Reports, 2017 Manuscript ID: PMEDR-17-27
4. Oncotarget 2016, #008118R1
5. PLOS ONE, 2015, PONE-D-15-33859
6. Oncotarget 2015:Paper #008118
7. Oncotarget 2015: 005413
8. Rheumatology International 2014, RHEI-D-14-00576
9. American Journal of Pathology 2013: MS Number AJP 13-0805
10. Rheumatology International 2013, RHEI-D-13-00868
11. Psychiatry Research 2013, Manuscript ID: PSY-D-13-00048R
12. PLOS ONE 2013, Manuscript ID: PONE-D-13-06180
13. Psychiatry Research 2013, Manuscript ID: PSY-D-13-00048
14. Journal of Psychiatric Research 2012 Manuscript ID:JRP3579R1
15. Psychiatry Research 2012: Manuscript ID: PSY-D12-00122R1
16. Journal of Psychiatric Research 2012 Manuscript ID:JRP3579
17. Psychiatry Research 2012: Manuscript ID: PSY-D12-00122
18. Biological Psychiatry 2011: Manuscript ID: BPS-D11-00829
19. Psychiatry Research 2011: Manuscript ID: PSY-D-11-00171
20. Journal of Psychiatric Research 2011: Manuscript ID: JPR2755
21. American Journal of Medical Genetics, Part B, Neuropsychiatric Genetics 2008, Manuscript ID: NPG-07-0395
22. Psychiatry Research 2007: Manuscript Number, PSY-D-07-00357
23. Biological Psychiatry: August 2005; October 2006
24. Bipolar Disorders: May 2004; Feb 2005; May 2007
25. Molecular Psychiatry: Mar 2006

Academically- Administrative Related Public Service

Departmental:

1. Serves on committee at Texas Tech University Health Sciences Center, Paul L. Foster School of Medicine - Interviewer for staff candidate – COEN, 2011
2. Serves on committee in the interview process for the Bioinformatics position in our Genome CORE at TTUHSC, 2012

Institutional (Schools of Medicine and TTUHSC)

Service on Internal committees:

2011-2016, Texas Tech University Health Sciences Center (TTUHSC)-El Paso, Member of Admission Committee
2011-2016, TTUHSC-El Paso, Interviewer for Admission Committee for the Medical School
2011-2016, TTUHSC-El Paso, Member, Faculty Searching Committee for the Center of Excellence in Neuroscience
2011-2013, TTUHSC-El Paso, Organizer of the Distinguished Guest Seminar Series in Biomedical Sciences
2011-2016, TTUHSC-El Paso, Interviewer for new faculty candidates for Department of Biomedical Sciences
2011 –2016, TTUHSC-El Paso, Interviewer for staff candidate - the Graduate School for Biomedical Sciences

2012-2016, TTUHSC-El Paso Evaluate abstracts for the 6th annual research colloquium, TTUHSC, 2012
2013- 2016, TTUHSC-El Paso, a Member of WIMS and a member of sub-committee of Research Collaborations Committee
2016-present, UTRGV, a research chair of BMED Research Development Committee at Department of Health & Biomedical Science
2016-present, UTRGV, a member of Non-Tenure Track (NTT) Search Committee
2016-present, UTRGV, a member of Women's Faculty Network

State and Regional
Serve at El Paso, Westside Recreation Center as a volunteer dance instructor, 2012-2013
National and International
- Gave lectures on Prevention for Alzheimer's disease, 1 hour, 50-60 people, community center, Toronto, Canada, 2006-2010
  Prevention for human common diseases, cancer, autoimmune diseases, dementia, neuropsychiatric disorders, 45 min, 30-50 attendees at the conference room at the E Excel Nutritional Immunology, Toronto, Canada, 2003-2011
- As a judger for oral/poster presentations in 2017 and 2018 Annual Biomedical Research Conference for Minority Students (ABRCMS)

Selected Publications (Total: over 60 Publications * as corresponding authors)
Partial List of Published Work as following
https://www.researchgate.net/profile/Chun_Xu4 or
http://www.ncbi.nlm.nih.gov/myncbi/1bUj6yJlXIIAQ/bibliography/40207900/public/?sort=date&direction=ascending,

1. Su BB, Villafranca A, Mao C, Hernandez S, Lozano S, Zarei M, Wang KS, Nair S and **Xu C***: Updated Genes, Lifestyles, and their Interactions for Human Longevity, *EC Neurology* 11.7 (2019): 531-550.

2. Wang K, Chen X, Ward SC, Liu Y, Ouedraogo Y, **Xu C**, Cederbaum AI, Lu Y: CYP2A6 is associated with obesity: studies in human samples and a high fat diet mouse model. Int J Obes (Lond). 2019 Mar;43(3):475-486

3. Gong S, Su B, Tovar H, Mao CX, Gonzalez V, Wang KS, **Xu C*** Polymorphisms within RYR3 gene are associated with risk and age at onset of hypertension, diabetes and Alzheimer's disease, *Am J Hypertension*. 2018;31(7):818-826

4. Chen Y, **Xu C**, Harirforoosh S, Luo X, Wang KS. Analysis of PTPRK polymorphisms in association with risk and age at onset of Alzheimer's disease, cancer risk, and cholesterol. *Journal Psychiatric Research*. 2018 Jan; 96:65-72

5. Wang K, Liu Y, Ouedraogo Y, Wang N, Xie X, **Xu C**, Luo X, Principal component analysis of early alcohol, drug and tobacco use with major depressive disorder in US adults *Journal Psychiatric Research 2018* May;100:113-120

6. Cho M, Contreras A, Garza A, Olvera S, Castillo D1, de Erausquin G and **Xu C*** The impact of drug and gene interaction on the antipsychotic medication for schizophrenia. Bipolar Disorder 2017, 3(1) 1000117

7. Wang KS, Liu Y, Xie X, Gong S, **Xu C**, Sha Z. Principal Component Regression Analysis of Nutrition Factors and Physical Activity with Diabetes. 2017. *Journal of Biometrics & Biostatistics* 2017, 8 (4) 1000364

8. Wang K and **Xu C*** Applications of Next-Generation Sequencing in Cancer Research and Molecular Diagnosis, 2017, 5:1 *Journal of Clinical and Medical Genomics*

9. Gong S, **Xu C**, Wang L, Liu Y, Owusu D, Bailey BA, Li Y, Wang K: Genetic association analysis of polymorphisms in PSD3 gene with obesity, type 2 diabetes, and HDL cholesterol. *Diabetes Res Clin Pract*. 2017, 126:105-114

10. Wang KS, Liu Y, **Xu C**, Liu X, Luo X. Family-based association analysis of NAV2 gene with the risk and age at onset of Alzheimer's disease, 2017 310:60-65 J*ournal of Neuroimmunology*

11. Ke-Sheng Wang, Xuefeng Liu, Muyiwa Ategbole, Xin Xie, Ying Liu, **Chun Xu**, Changchun Xie, Generalized linear mixed model analysis of urban-rural differences in potential factors for colorectal cancer screening. *Asian Pac J Cancer Prev*. 2017 Sep 27;18(9):2581-2589

12. Wang KS, Gong S, **Xu C**, Wang L, Luo X, 2017, Bayesian Cox Regression Model in Survival Analysis of HACE1 Gene with Age at Onset of Alzheimer's Disease, *Int J Clin Biostat Biom* 2017, 3:014

13. Li Xin Li, Shaoqing Gong, **Xu C**, Joseph Yi Zhou, Ke-Sheng Wang, Sleep duration and smoking are associated with coronary heart disease among US adults with type 2 diabetes: Gender differences Diabetes Research, and Clinical Practice, 2017, 124(93)

14. Mariateresa Villanos, John G Mistrot, Yan Yan Ping, JavierOrdonez, Cynthia Camarillo, Priyanka Bodepudid, ChunXiang Mao, Brenda Bin Su, Xia Li, Lewis P Rubin and **Xu C***, Mutation Identification for Epilepsy in the US Hispanic Population Using Whole-Exome-Sequencing *J Cell Biol Cell Metab* 2016, 3: 011

15. Hu J, Xu J, Pang L, Zhao H, Li F, Deng Y, Liu L, Lan Y, Zhang X, Zhao T, **Xu C*** et al., Systematically characterizing dysfunctional long intergenic non-coding RNAs in multiple brain regions of major psychosis 2016 *Oncotarget* Sep 19. doi: 10.18632/oncotarget.12122

16. Wang KS, Liu X, Xie C, Liu Y, **Xu C***, Non-parametric Survival Analysis of EPG5 Gene with Age at Onset of Alzheimer's Disease. J Mol Neurosci. 2016 60(4):436-444.

17. Torabi A, Ordonez J, Su B, Palmer L, Mao C, Lara EK, Rubin PL and **Xu C***, Novel Somatic Copy Number Alteration Identified for Cervical Cancer in the Mexican American Population, 2016, 2016, 4(3)12 *Medical Science* (http://www.mdpi.com/2076-3271/4/3/12)

18. Wang KS, Mao CX, Liu X, Dwivedi A, Ordonez J, Rubin LR, and **Xu C*** Urban-Rural Differences in the Associations of Risk Factors With Epilepsy Based on the California Health Interview Survey: A Multiple Logistic Regression Analysis *Int J High Risk Behav Addict.* 2016, e31181

19. Reyes-Barron C, Tonarelli S, Delozier A, Briones DF, Su BB, Rubin LP, **Xu C***: Pharmacogenetics of antidepressants, a review of significant genetic variants in different populations, *Cellular and Molecular Biology*, April 2016

20. Wang KS, Pan Y, Wang W and **Xu C***: Bayesian Survival Analysis of Genetic Variants in PTPRN2 Gene for Age at Onset of Cancer International Journal of Clinical Biostatistics and Biometrics, 2015, 1:1

21. YongSheng Li, Cynthia Camarillo, Juan Xu, Tania Bedard Arana, Yun Xiao, Zheng Zhao, Hong Chen, ChunXiang Mao, Michael A Escamilla, Alfonso Ontiveros, Humberto Nicolini, Alvaro Jerez, Xia Li, **Xu C*** Genome-wide methylome analyses reveal novel epigenetic regulation patterns in schizophrenia and bipolar disorder – a pilot study, *Biomed Research International* 2015;2015:201587 *As a corresponding author,

22. Wang KS, Pan Y and **Xu C**: Statistical Modeling of MicroRNA Expression with Human Cancers 2015 6 (3) 240 *Biometrics & Biostatistics*

23. Zhao Z, Li Y, Chen H, Lu J, Thompson PM, Chen J, Wang Z, Xu J, **Xu C**, Li X. PD_NGSAtlas: a reference database combining next-generation sequencing epigenomic and transcriptomic data for psychiatric disorders. *BMC Med Genomics*. 2014 Dec 31;7(1):512. [Epub ahead of print]

24. Wang KS, Tonarelli S, Luo X, Wang L, Su B, Zuo L, Mao CX, Rubin L, Briones D, **Xu C*** Polymorphisms within ASTN2 gene are associated age at onset of Alzheimer disease, *Journal of Neural Transmission* 2015 May;122(5):701-8 *As a corresponding author,

25. Kesheng Wang, Daniel Owusu, Yue Pan, **Xu C** (Review Article), Common Genetic Variants in the HNF1B Gene Contribute to Diabetes and Multiple Cancers, *Austin Biomarkers $ Diagnosis* 2014, 1(1) 5

26. Kesheng Wang, Xuefeng Liu, Liang Wang, David F. Briones and **Xu C**, Genetic Variants in the SORL1 Gene are Associated with Age at onset of Alzheimer Disease: A Survival Analysis *International Journal of Medical Genetics* 2014, Article ID 689832

27. Xiao Y, Camarillo C, Ping Y, Arana TB, Zhao H, Thompson PM, Xu C, Su BB, Fan H, Ordonez J, Wang L, Mao C, Zhang Y, Cruz D, Escamilla MA, Li X, **Xu C***. The DNA methylome and transcriptome of different brain regions in schizophrenia and bipolar disorder. *PLoS One*. 2014 Apr 28;9(4):e9587.

28. Jia Meng, Yan Li, Cynthia Camarillo, Yue Yao, Yina Zhang, **Xu C**: The anti-tumor histone deacetylase inhibitor SAHA and the natural flavonoid curcumin exhibit synergistic neuroprotection against amyloid-beta toxicity *PLOS ONE*, 2014, 9:e85570

29. Ke-Sheng Wang, Nuo Xu, Liang Wang, Lorenzo Aragon, Radu Ciubuc, Tania Bedard Arana, ChunXiang Mao, Leonora Petty, David Briones, Brenda Bin Su, Xingguang Luo, Cynthia Camarillo, Michael A Escamilla, **Xu C*,** NRG3 gene is associated with the risk and age at onset of Alzheimer disease *Journal of Neural Transmission 2014,* 121 (2):183, *As a corresponding author,

30. Ke-Sheng Wang, Nagesh Aragam, Tania Bedard Arana, Thompson, Nicholas, Henry Weisman, Yolanda Posada, ChunXiang Mao, Brenda Bin Su, Cynthia Camarillo, Yu Mao, Michael A Escamilla,

Xu C*, Genetic association analysis of ITGB3 polymorphisms with age at onset of schizophrenia *J Mol Neurosci*. 2013 Oct;51(2):446-5**,** *As a corresponding author

31. **Xu C***, Warsh JJ, Wang KS, Mao CX, Kennedy JL. Evidence for an interactive effect of the two calcium modulating genes, TRPM2 and iPLA2b on the Risk for Bipolar Disorder, *Psychiatric Genetics*, 2013 Apr;23(2):86-89, *As a corresponding author

32. Gonzalez SD, **Xu C**, Ramirez ME, Zavala JM, Armas R, Contreras SA, Contreras J, Dassori A, Leach RJ, Flores D, Jerez A, Ravento H, Ontiveros A, Nicolini H and Escamilla M, Family-based association of an ANK3 haplotype with bipolar disorder in Latino populations 2013 *Translational Psychiatry* (2013) 3, e265

33. S. Gonzalez, **C. Xu**, M. Ramirez, J. Zavala, R. Armas, S.A. Contreras, J. Contreras-Rojas, A. Dassori, , R.J. Leach, D. Flores, A. Jerez, H. Raventós, A. Ontiveros, H. Nicolini, M. Escamilla 2012 Evidence for Association between L-Type Voltage-Gated Calcium Channel (CACNA1C) Gene Haplotypes and Bipolar Disorder in Latinos: a Family-Based Association Study *Bipolar disorders*, 2013, Mar;15(2):206-214

34. **Xu C*****, Nagesh Aragam, Xia Li, Erika Cynthia Villla, Liang Wang, David Briones, Leonora Petty, Yolanda Posada, Tania Bedard Arana1, Grace Cruz, ChunXiang Mao, Cynthia Camarillo, Michael A Escamilla1, Ke-Sheng Wang. BCL9 and C9orf5 are associated with negative symptoms in schizophrenia: meta-analysis of two genome-wide association studies Study (2013) *PLOS ONE*, 8(1), e51674. *As a corresponding author

35. **Xu C***, JE Mullersman, LWang, BB Su, CX Mao, Y Posada, C Camarillo, Y Mao, MA Escamilla, KS Wang, 2013. Polymorphisms in seizure 6-like gene are associated with bipolar disorder I: evidence of gene × gender interaction *Journal of Affective Disorders*, 2012, 145: 95–99, *As a corresponding author**,**

36. Chambers JC, Zhang W, Sehmi J, Li X, Mark, Wass N, **Xu C** et al., Genome-wide association study identifies loci influencing concentrations of liver enzymes in plasma, *Nature Genetics*, 2011, 43:1138

37. Liu X, Invernizzi P, Lu Y, Kosoy R, Lu Y, Bianchi I, Podda M, **Xu C** et al, Genome-wide meta-analyses identify three loci associated with primary biliary cirrhosis. *Nat Genet*. 2010 Aug;42:658-60.

38. Hirschfield GM, Liu X, Han Y, Gorlov IP, Lu Y, **Xu C** et al, Variants at IRF5-TNPO3, 17q12-21 and MMEL1 are associated with primary biliary cirrhosis. *Nat Genet*. 2010 Aug;42:655-7.

39. Hirschfield GM Liu, **Xu C**, Lu Y, Xie G, Lu Y, Gu X, Walker EJ, Jing K, Juran BD BSc, Mason AL, Myers RP, Peltekian KM, Ghent CN, Coltescu C, Atkinson EJ , Heathcote EJ, Lazaridis KN, Amos CI, Siminovitch KA (2009). Genomewide association analysis identifies HLA, IL12A and IL12RB2 as risk loci for primary biliary cirrhosis. *New England Journal of Medicine* 360 (24):2544-55 (* I should be 1st author based on my contribution, however, authorship dispute occurred)

40. Li C, Li X, Miao Y, Wang Q, Jiang W, **Xu C** et al., (2009) SubpathwayMiner: a software package for flexible identification of pathways. *Nucleic Acids Research* 37 (19) e131

41. Walker EJ, Hirschfield GM, **Xu C**, Lu Y, Liu X, Lu Y, Coltescu C, Wang K, Newman WG, Bykerk V, Keystone EC, Mosher D, Amos CI, Heathcote EJ, Siminovitch KA (2009) CTLA4/ICOS gene variants and haplotypes are associated with rheumatoid arthritis and primary biliary cirrhosis in the Canadian population. *Arthritis Rheum*. 2009 Apr;60(4):931-7

42. Mingzhu Zhu, Lei Gao, Xia Li, Zhicheng Liu, **Chun Xu**, Yuqing Yan, Erin Walker, Wei Jiang, Bin Su, Xiujie Chen, and Hui Lin, The analysis of the drug–targets based on the topological properties in the human protein–protein interaction network, *Journal of Drug Targeting*, 2009; 17(7): 524–532

43. **Xu C**, Li PP, Cooke RG, Parikh SV, Wang K, Kennedy JL, Warsh JJ (2009) TRPM2 variants and bipolar disorder risk: confirmation in a family-based association study. *Bipolar Disorder*. 2009 Feb;11(1):1-10.

44. **Xu C**, Li P.P., Kennedy JL et al (2008) Further support for association of the mitochondrial complex I subunit gene NDUFV2 with bipolar disorder *Bipolar Disorders* 10:105

45. **Xu C**, Macciardi F, Li P.P et al (2006) Association of the Putative Susceptibility Gene, Transient Receptor Potential Protein Melastatin Type 2, with Bipolar Disorder. *Am J Med. Genet.* 2006;141B:36-43.

46. **Xu C**., Warsh J.J., Li PP et al (2005). Further Support for Association of the Mitochondrial Complex I Subunit Gene NDUFV2 with Bipolar Disorder. Biol Psychiatry, 57: 178S.

47. **Xu C**., Warsh, J. J., Kennedy et al (2004). Association of the Putative Bipolar Disorder Susceptibility Gene, TRPM2, With Bipolar II Disorder. Int. Neuropsychopharm 7: S357.

48. **Xu C,** Ozbay F, Wigg K et al (2003) Evaluation of adrenergic receptors □2A and □1C and Gilles de la Tourette Syndrome. *Am J Med Genet*. May 15;119B(1):54-9

49. **Xu C**, Goodz S, Sellers EM et al (2002) CYP2A6 Genetic Variation and Potential Consequences. *Advanced Drug Delivery Review* 54, 1245-1256.

50. **Xu C**, Rao YS, Xu B et al (2002) A novel polymorphism in exon 9 of CYP2A6 gene alters activity in vivo. *BBRC* 290: 318-324

51. Dai Y, **Xu C**, Holmberg M et al (2001) Linkage analysis suggests a region of importance for multiple sclerosis in 3p14-13. *Genes Immun*. Dec;2(8):451-4

52. Barr CL, **Xu C**, Kroft J, Feng Y et al (2001) Haplotype study of three polymorphisms at the dopamine transporter locus confirm linkage to attention-deficit/hyperactivity disorder. *Biol Psychiatry* 49: 333-339
53. **Xu C**, Schachar R, Tannock R et al (2001) Linkage study of the a2A adrenergic receptor in attention-deficit hyperactivity disorder families. *American journal of Medical Genetics* (Neuropsychiatric Genetics) 105: 159-162
54. **Xu C**, Dai YM, Lorentzen JC et al (2001) Linkage analysis in multiple sclerosis of chromosomal regions syntenic to experimental autoimmune disease loci. *Europe of Journal of Human Genetics* 9: 458-463
55. **Xu C**, Dai YM and Jan Hillert (1999) Association and linkage analysis of candidate chromosomal regions in multiple sclerosis: indication of disease genes in 12q23 and 7 ptr-15. *Europe of Journal of Human Genetics* 7(2): 110-116
56. Ligers A, **Xu C,** Saarinen S, Oleup O, and Hillert J (1999) The CTLA-4 gene is associated with multiple sclerosis. *Journal of Neuroimmunology* 97: 182-190
57. He Bin, **Xu C**, Yang B et al (1998) Linkage and association analysis of genes encoding cytokines and myelin proteins in multiple sclerosis. *Journal of Neuroimmunology* 86:13-19
58. **Xu C** and Jan Hillert (1998) Absence of linkage with the neuronal nitric oxide (NOS1) gene in forty-one multiplex Swedish MS families. *European of Journal Neurology* 5: 393-396
59. Anna Wedell, **Xu C**, et al., (1994) A steroid 21-hydroxylase allele concomitantly carrying four disease-causing mutations is not uncommon in the Swedish population. *Human Genetics* 93: 204-206.
60. **Xu C** et al., (1991) Studies on chromosomal fragile sites of the patients with GTT, cervical cancer and ovary. *Chinese Journal of Gynecology and Obstetrics* 25: 157

Presentation in national & international meetings (2012-present):

1. Priscila Acevedo, Faith Trevino, Juan Peralta, Ke-Sheng Wang, John Blangero, Ruth Crutchfield, Brenda Bin Su, Chun Xu* "Mutation identified for of ADHD families in the US Hispanic population by Whole exome sequencing at Annual meeting of American Society of Human Genetics, October 16-20 San Diego. 2018
2. Priscila Acevedo, Faith Trevino, Ruth Crutchfield, Chun Xu* Gene discovery for ADHD from the US Hispanic families using a whole exome sequencing" and Priscilla Acevedo won the Best Poster of the 2018 UTRGV School Medicine Research Symposium
3. Xu C * et al., "Mutation identification for epilepsy in the U.S. Latino population using whole exome sequencing" ASHG 2017 Annual Meeting in Orlando FL, October 17-21, 2017
4. Xu C * et al., "Impact of Drug and Gene Interaction on the Antipsychotic Medication for Schizophrenia" was selected for oral presentation at the ASHG Undergraduate Workshop: Roundtable Discussion, ASHG 2017 Annual Meeting in Orlando FL, October 17-21, 2017
5. Xu C*, CX.Mao, J. Ordonez, L. Palmer, K.E. Lara, C. Camarillo, B. Darius, L. P. Rubin, A. Torabi "Identifying somatic copy number alterations for cervical cancer in a U.S. Latino population" at ASHG 2015 Annual Meeting in Baltimore, Maryland, October 6-10, 2015
6. Xu C* et al., "Calcium signaling genes associated with bipolar disorder in the Latino population" at 14h Annual Pharmacogenetics in Psychiatry Meeting in Toronto, Ontario, October 15, 2015
7. Xu C* et al "Whole exome sequencing for epilepsy in the Latino/Hispanic population" as late breaking poster in American Epilepsy 68th Annual meeting at Seattle, December 2014
8. Xu C* et al., "Genome-wide methylome and transcriptome analyses reveal novel epigenetic regulation patterns in schizophrenia and bipolar disorder. American Society of Human Genetics Meeting at Boston, Oct 22-26 2013
9. Cynthia Camarillo, Tania Arana, David Briones, Lorenzo Aragon, Radu Ciubuc, Chun Xu*: Genetic Variation and Risk of Age at Onset in Alzheimer's Disease Using Family-Based Analysis (*corresponding author) This won 2nd place in the Biomedical Sciences category at 7th Annual TTUHSC Research Colloquium, March 2013
10. Javier Ordonez, Yolanda Posada, Cynthia Camarillo, Brenda Castillo1, Chun Xu: Genomic DNA obtained from saliva and buccal swabs is suitable for genetic variant detection at 7th Annual TTUHSC Research Colloquium, March 2013
11. Yolanda L Posada, Richard Brower, Elizabeth Ledger, Chun Xu*:Associations of stroke and serious psychological distress with epilepsy at 7th Annual TTUHSC Research Colloquium, March 2013
12. Yolanda L Posada, Camarillo, Cynthia; Ordonez, Javier; Camarillo, Aaron; Zavala, Juan M; Michael Escamilla; Xu, Chun*: Calcium Signaling Genes and the Risk of Bipolar Disorder at 7th Annual TTUHSC Research Colloquium, March 2013
13. Xu C*, Aragam N, Li X, Villla EC, Wang L, Posada Y, Arana TB, Cruz G, Mao CX, Camarillo C, Escamilla MA, Wang KS., BCL9 and C9orf5 are associated with negative symptoms in schizophrenia: meta-analysis of two genome-wide association studies. 6th Annual Research Colloquium. Texas tech University Health Sciences Center, March 2012 (*corresponding author)

14. Xu C*, Mullersman JE, Wang L, Su BB, Mao CX, Posada Y, Camarillo C, Mao Y, Escamilla MA, Wang KS., Polymorphisms in seizure 6-like gene are associated with bipolar disorder I: evidence of gene × gender interaction in International Behavioral Neuroscience Society, Hawaii, USA, June 5-10 2012
5. Xu C*., Aragam N, Li X, Villla EC, Wang L, Posada Y, Arana TB, Cruz G, Mao CX, Camarillo C, Escamilla MA, Wang KS: A meta-analysis of two genome-wide association studies identifies genes/loci associated with negative symptoms in schizophrenia in International Behavioral Neuroscience Society, Hawaii, USA, June 5-10 2012
6. Xu C*, Aragam N, Li X, Villla EC, Wang L, Posada Y, Arana TB, Cruz G, Mao CX, Camarillo C, Escamilla MA, Wang KS., BCL9 and C9orf5 are associated with negative symptoms in schizophrenia: meta-analysis of two genome-wide association studies in the World Congress of Psychiatric Genetics, Hamburg, Germany, Oct 14-18, 2012
7. Gonzalez, Xu C, M. Ramirez, J. Zavala, R. Armas, S.A. Contreras, J. Contreras-Rojas, A. Dassori, , R.J. Leach, D. Flores, A. Jerez, H. Raventós, A. Ontiveros, H. Nicolini, M. Escamilla., Characterization of CACNA1C and ANK3 Risk Alleles for Bipolar Disorder in Hispanics in the XXth World Congress of Psychiatric Genetics, Hamburg, Germany, Oct 14-18, 2012
8. Xu C, Blackburn AN, Gonzalez S , Villa EC, Ramirez M, Zavala J, Rodriguez M, Camarillo C, Ordonez J, Armas R, Contreras SA, Leach RJ, Flores D, Jerez A, Ontiveros A, Nicolini H, Lehman D, Escamilla M., Rare copy number variants in schizophrenia and bipolar disorder in a Latino Population in American Society of Human Genetics, Annul Meeting, San Francisco, USA Nov 6-10, 2012

Invited Presentations (Past Ten Years):

1. An Invited lecture on Pharmacogenomics and personalized therapy at the A.T. Still University, March 25, 2016
2. An Invited lecture on Biomarker Identifications for Human Complex Diseases Using Cutting Edge Technologies" at the University of Wisconsin, March 21, 2016
3. An Invited lecture on "Translational Medicine: Biomarker Identifications for Human Diseases and Drug Responses Using Cutting Edge Technologies" at the UAE University, Jan 17-18, 2016
4. An Invited lecture on "Translational genomic medicine: neuropsychiatric disorders, human longevity and drug responses" at the University of Ottawa, School of Health Sciences, March 27, 2015
5. An Invited lecture on "Genomic Medicine - steps toward clinical setting" at the department of OBGYN, Miami Valley Hospital at the Wayne State University, August 18, 2014
6. An Invited lecture on "Molecu.ar Genetics and Pharmacogenomics for Neuropsychiatric disorders" at East Tennessee State University (ETSU), March 17, 2014
7. An Invited talk of "Novel epigenetic regulation patterns in schizophrenia and bipolar disorder identified in the Latinos by global DNA methylation analysis" in the Critical Research Initiatives of Latino Mental Health Conference in Tampa, Florida on 13-15 June 2013
8. An Invited lecture on "Pharmacogenetics in Neuropsychiatric Disorders" at the Department of Biology, Indiana State University, April, 2013
9. An Invited speaker on "Moving Toward Personalized Medicine in Psychiatric Disorders at TTUHSC, El Paso, TX
10. An Invited lecture "Genetics and Pharmacogenetics in Human in Complex Disorders" at the Department of Internal Medicine, TTUHSC, Lubbock, Feb 28, 2013 http://www.ttuhsc.edu/som/cme/grand_rounds/gr_detail.aspx?id=2743
11. "Genetics and Pharmacogenetics in Human Complex Disorders (Examples of Schizophrenia and Bipolar Disorder)" at the Department of Bioinformatics, University of Texas at El Paso, Bell Hall 130A, Friday, 10:30 am, September 12, 2012 http://www.bioinformatics.utep.edu/colloquium/12/09/Xu120914.pdf
12. "Human molecular genetics and nutrigenetics/nutrigenomics" at the Canadian Academy of Natural Health in Toronto, Oct 8 and 9 2011
13. "Molecular Genetics and Pharmacogenetics of Human Complex Diseases" at Texas Tech University, Aug 9, 2010
14. "Genome Wide Association and Next Generation DNA Sequence for Bipolar Disorder and Primary Biliary Cirrhosis" at University Iowa, July 10, 2010
15. "Gene Discovery for Human Complex Diseases" at University Nevada, USA, June 9, 2010
16. "Nutrigenomics Practice and Future" at Harbin Normal University, Harbin, China, Nov 21, 2009
17. "Dissecting the Molecular and Genetic Basis of Human Complex Diseases or Traits" at Harbin Medical University, Harbin, China, Nov 13, 2009
18. "Pharmacogenetics Present and Future" at Harbin Medical University, Harbin, China, Nov 11, 2009
19. "Dissecting the Molecular and Genetic Basis of Human Complex Diseases or Traits" at Memorial University of Newfoundland, St John's, Canada Oct, 2009

20. "Candidate Gene Strategies for Identifying Disease Susceptibility in Humans", Cancer Genetic Branch, National Cancer Institute, Rockville, MD, USA, January 15-16, 2008
21. "Molecular Genetics of Psychiatric Disorders and Application of Molecular Genetics in Monogenetic and Complex Diseases in Atlantic Canadians", Dalhousie University, Halifax, Canada, Oct 22, 2007
22. "Application of nutrigenetics and nutrigenomics in human complex diseases" University of Guelph, Guelph, Ontario, Canada, June 1, 2007
23. "Application of high-throughput SNP genotyping assay in gene mapping and variant identification in human complex diseases" Harbin Medical University, China, June 2006.
24. "Molecular Genetic Studies of Bipolar Disorder, ADHD, and Gilles de la Tourette Syndrome: Candidate Gene Approach" Dalhousie University, Halifax, Canada, August 22, 2006.
25. "Transient Receptor Potential Protein Melastatin type 2 (TRPM2), A Pathophysiological Risk Gene for Bipolar Disorder" Mood Anxiety Round, CAMH, Toronto, Mar 18, 2005.

Professional Memberships

2013-present Member of American Society for Pharmacology and Experimental Therapeutics (ASPET)
2013-present Member of American Society of Epilepsy
2010 - present Member of American Society of Human Genetics
2006 – present Member of the international Society of Psychiatric Genetics
2003 – present Member of the Society for Neuroscience
2006 – present Member of the Continuing Mental Health Education committee, University of Toronto
2002 – present Member of the Nutritional Immunology