

January, 2024

CURRICULUM VITAE

Name:	XINZHI RICHARD CHEN, MD, PhD, MSN, MSc, BSN	
Business Address:	University of Pittsburgh School of Nursing 318A Victoria Building 3500 Victoria Street Pittsburgh, PA 15261	
Email Address:	Chenx5161@pitt.edu	
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<u>Education and Training</u>		
Undergraduate		
1992-1997	Dalian Medical University, Dalian, P.R. China	M.D. equivalent Medicine
2016-2017	Duquesne University School of Nursing, Pittsburgh, PA, USA	BSN Nursing
Graduate		
2000-2003	Dalian Medical University, Dalian, P.R. China	M.Sc. Public Health (Biochem- Toxicology)
2004-2009	University of Wisconsin-Madison, Madison, WI USA	Ph.D. Neuroscience
2017-2020	Duquesne University School of Nursing, Pittsburgh, PA USA	MSN Nursing Education
Postgraduate		
2009-2012	National Institute of Aging, NIH, Baltimore, MD USA	Neuroscience
<u>Appointments and Positions</u>		
Academic		
2023 to present	University of Pittsburgh School of Nursing Department of Acute & Tertiary Care, Pittsburgh, PA USA	Assistant Professor

2021 to 2023	Misericordia University, Nursing Department ABSN, Coraopolis, PA USA	Assistant professor
2016 to 2021	Duquesne University School of Nursing, Pittsburgh, PA USA	Adjunct faculty
2013 to 2015	University of Pittsburgh, School of Medicine Department of Neurology, Pittsburgh, PA USA	Research Associate
2009-2012	BioVisions, Inc. /National institute of Aging, NIH Baltimore, MD USA	Research Scientist /postdoc fellow
2004 to 2009	University of Wisconsin-Madison, SOM Department of Neurological Surgery, Madison, WI USA	Research Assistant
2005	University of Wisconsin-Madison, SOM Department of Zoology Madison, WI USA	Teaching Assistant
1997 to 2004	Dalian Medical University, Department of Public Health Dalian, P.R. China	Assistant Professor/ Instructor (Primary)
1997 to 2003	Sino-Japanese Cooperation Medicament Science Research Institute, Dalian, P.R. China	Scientist (Secondary)
Non-Academic		
2016-present	Steel City interpreters, Pittsburgh, PA USA	Professional Medical Interpreter (Mandarin)
2016-2021	University of Pittsburgh Medical Center Montefiore Hospital, Pittsburgh, PA USA	Senior Professional staff Nurse
1996-1997	The First Affiliated Hospital of Dalian Medical University, Dalian, P.R. China	Medical Intern
<u>Certification and Licensure</u>		
2016 to present	Pennsylvania State Board of Nursing, RN689713	
2016 to present	American Heart Association, Basic Cardiac Life Support	
<u>Membership in Professional and Scientific Societies</u>		
2021- present	American Nurses Association/Pennsylvania State Nurses Association	Member
2010-2015	Sigma Xi	Member
2006- 2018	Society for Neuroscience	Member
1997-2003	Toxicology Professional Committee of Dalian Preventive Medicine, Dalian, P.R. China	Board member

1997-2003	Advanced teaching professionals, Dalian, P.R. China	Board member
Honors		
1992-1997	Excellent Student Scholarship, Dalian Medical University, Dalian, P.R. China	
1997	Excellent grad student of Liaoning province (State level), the Educational Committee of Liaoning, P.R. China	
2007 & 2008	Vilas travel grant award, University of Wisconsin-Madison, Madison, WI USA	
Publications		
Refereed Articles * = Data Based; £ = Senior Author;		
1.	Chen, X. , Hong, X., Chen, Z., Lu, Y., Zhong, L. (2000). Effects of epidermal growth factor on morphology and MTT reduction of Hela cells. <i>Journal of Dalian Medical University</i> . 3:179-181.	
2.	Chen, X. , Lu, Y., Hong, X., Ye, J., Song, S., Zhong, L. (2000). The preventive effects of meglumine observed on the cisplatin-induced nephrotoxicity. <i>Journal of Dalian Medical University</i> . 4: 249-253.	
3.	Chen, X. , Lu, Y., Hong, X., Ye, J., Guan, Y., Zhong, L. (2000). The preventive effects of meglumine on nephrotoxicity induced by cisplatin. <i>Journal of Health Toxicology</i> . 4: 71	
4.	Zhong, L., Chen, X. , Lu, Y., Nan, H. (2001). The preventive effects of flavanols on Rat's nephrotoxicity induced by cisplatin. <i>Journal of Health Toxicology</i> . 2: 54	
5.	Chen, X. , Lu, Y., Hong, X., Guan, Y., Zhong, L. (2002). The preventive effects of meglumine on Rat's nephrotoxicity induced by cisplatin and discussion on its mechanism. <i>Journal of China Public Health</i> . 1:53-54.	
6.	Lu, Y., Li, Q., Chen, X. , Liu, X., Ye, J., Song, S., Zhong, L. (2002). Protective effects of glutathione on cisplatin-induced toxicity to primary cultured rat renal tubular epithelial cells without sex-dependent difference. <i>Journal of Dalian Medical University</i> . 4: 244-246.	
7.	Lu, Y., Li, Q., Gong, D., Dai, Z., Chen, X. , Song, S., Zhong, L. (2003). The use of primary cell cultures to test drug-induced short-term toxicity. <i>Journal of Health Toxicology</i> . 17(2):12-114.	
8.	Hong, X., Chen, X. , Ye, J., Liu, X., Li, Q., Song, S. Zhong, L. (2003). Inhibitory effect of cisplatin on proteasome. <i>Journal of Health Toxicology</i> . 17 (2): 84-86.	
9.	Li, H., Chen, X. , Zhong, L. (2003). Preventive effects of flavones on nephrotoxicity of cisplatin in Rats. <i>Journal of Shenyang medical college</i> . 5 (2): 109-111.	
10.	Lu, Y., Chen, X. , Zhong, L. (2003). Renal glutathione system and its toxicological significance. <i>Journal of Environmental Hygiene</i> . 30 (5): 274-278.	
11.	Chen, X. , Hong, X., Li, H., Lu, Y., Du, B., Zhong, L. (2003). Establishment of over-expressing ERCC1 protein cell line. <i>Journal of Dalian Medical University</i> . 25 (3): 163-168.	
12.	* £Wang, H., Lian, H., Xu, J., Li, H., Chen, X. (2003). The preventive effects of silibinin on the cardiac toxicity caused by doxorubicin. <i>Adverse Drug Reactions Journal</i> . 6 (5): 371-374.	

13.	Lu, Y., Li, Y., Du, B., Chen, X. , Zhong, L. (2004). Decrease in accumulation of platinum in cisplatin treated HEK293 cells caused by non-protein sulfhydryl. <i>Journal of Health Toxicology</i> . 18 (3): 167-168.
14.	Li, H., Chen, X. , Zhong, L. (2005). Study on DNA damage induced by aristolochic acid in vitro. <i>Journal of Health Toxicology</i> . 19 (4): 290-292.
15.	Du, B., Jiang, L., Xia, Q, Lu, Y. Chen, X. , Zhong, L. (2006). The synergistic anti-proliferative effect of curcumin and fluorouracil on human colon cancer cell line HT-29. <i>Acta Nutriment Sinica</i> . (1): 75-79.
16.	Adibhatla, R. M., Hatcher, J. F., Larsen, E. C., Chen, X. , Sun, D., & Tsao, F. H. (2006). CDP-choline significantly restores phosphatidylcholine levels by differentially affecting phospholipase A2 and CTP: phosphocholine cytidyltransferase after stroke. <i>J Biol Chem</i> , 281(10), 6718-6725. https://doi.org/10.1074/jbc.M512112200
17.	Luo, J., Wang, Y., Chen, X. , Chen, H., Kintner, D. B., Shull, G. E., Philipson, K. D., & Sun, D. (2007). Increased tolerance to ischemic neuronal damage by knockdown of Na ⁺ -Ca ²⁺ exchanger isoform 1. <i>Ann N Y Acad Sci</i> , 1099, 292-305 https://doi.org/10.1196/annals.1387.016
18.	Luo, J., Wang, Y., Chen, H., Kintner, D. B., Cramer, S. W., Gerdts, J. K., Chen, X. , Shull, G. E., Philipson, K. D., & Sun, D. (2008). A concerted role of Na ⁺ -K ⁺ -Cl ⁻ cotransporter and Na ⁺ /Ca ²⁺ exchanger in ischemic damage. <i>J Cereb Blood Flow Metab</i> , 28(4), 737-746. https://doi.org/10.1038/sj.jcbfm.9600561
19.	Wang, Y., Luo, J., Chen, X. , Chen, H., Cramer, S. W., & Sun, D. (2008). Gene inactivation of Na ⁺ /H ⁺ exchanger isoform 1 attenuates apoptosis and mitochondrial damage following transient focal cerebral ischemia. <i>Eur J Neurosci</i> , 28(1), 51-61. https://doi.org/10.1111/j.1460-9568.2008.06304.x
20.	Chen, X. , Kintner, D. B., Luo, J., Baba, A., Matsuda, T., & Sun, D. (2008). Endoplasmic reticulum Ca ²⁺ dysregulation and endoplasmic reticulum stress following in vitro neuronal ischemia: role of Na ⁺ -K ⁺ -Cl ⁻ cotransporter. <i>J Neurochem</i> , 106(4), 1563-1576. https://doi.org/10.1111/j.1471-4159.2008.05501.x
21.	Liu, Y., Kintner, D. B., Chanana, V., Algharabli, J., Chen, X. , Gao, Y., Chen, J., Ferrazzano, P., Olson, J. K., & Sun, D. (2010). Activation of microglia depends on Na ⁺ /H ⁺ exchange-mediated H ⁺ homeostasis. <i>J Neurosci</i> , 30(45), 15210-15220. https://doi.org/10.1523/JNEUROSCI.3950-10.2010
22.	Kintner, D. B., Chen, X. , Currie, J., Chanana, V., Ferrazzano, P., Baba, A., Matsuda, T., Cohen, M., Orłowski, J., Chiu, S. Y., Taunton, J., & Sun, D. (2010). Excessive Na ⁺ /H ⁺ exchange in disruption of dendritic Na ⁺ and Ca ²⁺ homeostasis and mitochondrial dysfunction following in vitro ischemia. <i>J Biol Chem</i> , 285(45), 35155-35168. https://doi.org/10.1074/jbc.M110.101212
23.	Chen X* , Vitzthum, L*, Kintner, D. B., Huang, Y., Chiu, S. Y., Williams, J., & Sun, D. (2010). Study of Na ⁺ /H ⁺ exchange-mediated pH _i regulations in neuronal soma and neurites in compartmentalized microfluidic devices. *Contribute equally. <i>Integr Biol (Camb)</i> , 2(1), 58-64. https://doi.org/10.1039/b918440f
24.	Chen, X. , Kintner, D. B., Baba, A., Matsuda, T., Shull, G. E., & Sun, D. (2010). Protein aggregation in neurons following OGD: a role for Na ⁺ and Ca ²⁺ ionic dysregulation. <i>J Neurochem</i> , 112(1), 173-182. https://doi.org/10.1111/j.1471-4159.2009.06438.x

25.	Ferrazzano, P., Shi, Y., Manhas, N., Wang, Y., Hutchinson, B., Chen, X. , Chanana, V., Gerdts, J., Meyerand, M. E., & Sun, D. (2011). Inhibiting the Na ⁺ /H ⁺ exchanger reduces reperfusion injury: a small animal MRI study. <i>Front Biosci (Elite Ed)</i> , 3(1), 81-88. https://doi.org/10.2741/e222
26.	Liu, D., Pitta, M., Jiang, H., Lee, J. H., Zhang, G., Chen, X. , Kawamoto, E. M., & Mattson, M. P. (2013). Nicotinamide forestalls pathology and cognitive decline in Alzheimer mice: evidence for improved neuronal bioenergetics and autophagy procession. <i>Neurobiol Aging</i> , 34(6), 1564-1580. https://doi.org/10.1016/j.neurobiolaging.2012.11.020
27.	Jing, Z., Xing, J., Chen, X. , Stetler, R. A., Weng, Z., Gan, Y., Zhang, F., Gao, Y., Chen, J., Leak, R. K., & Cao, G. (2014). Neuronal NAMPT is released after cerebral ischemia and protects against white matter injury. <i>J Cereb Blood Flow Metab</i> , 34(10), 1613-1621. https://doi.org/10.1038/jcbfm.2014.119
28.	Chen, X. , Arumugam, T. V., Cheng, Y. L., Lee, J. H., Chigurupati, S., Mattson, M. P., & Basta, M. (2018). Combination Therapy with Low-Dose IVIG and a C1-esterase Inhibitor Ameliorates Brain Damage and Functional Deficits in Experimental Ischemic Stroke. <i>Neuromolecular Med</i> , 20(1), 63-72. https://doi.org/10.1007/s12017-017-8474-6
Published Abstracts	
1.	Adibhatla, R.M., Hatcher, J.F., Larsen, E.C., Chen, X. (2006). CDP-choline partly restores phosphatidylcholine levels by affecting PLA2 and CTP-phosphocholine cytidyltransferase after stroke. <i>American society for neurochemistry</i> , PTW05-7.
2.	Adibhatla RM, Hatcher JF, Larsen EC, Chen X, Sun D and Dempsey RJ. CDP-choline partly restores the phosphatidylcholine levels by differentially affecting secretory phospholipase A(2) IIA and CTP-phosphocholine cytidyltransferase after stroke. Poster presented at Experimental Biology, San Francisco, CA, Apr 2006.
3.	Chen X, Wang Y, Chen H, Kintner DB, Philipson KD, Sun D. Knockdown of Na ⁺ /Ca ²⁺ exchanger isoform 1 (NCX1) with SiRNA is neuroprotective in cerebral focal ischemia. (83.19/LL79) Poster presented at 36th annual meeting of Society for Neuroscience, Atlanta,GA, Oct 2006.
4.	Chen X, Luo J, Kintner DB, Wang Y, Sun D. Na ⁺ -K ⁺ -Cl ⁻ cotransporter contributes to neuronal ER stress and mitochondrial dysfunction following ischemia. (84.8/LL97) Poster presented at 36th annual meeting of Society for Neuroscience, Atlanta,GA, Oct 2006.
5.	Chen X, and Sun D. Na ⁺ -K ⁺ -Cl ⁻ cotransporter contributes to ER stress in neurons following in vitro ischemia. (55.23/R21) Poster presented at 37th annual meeting of Society for Neuroscience, San Diego, CA, Nov 2007.
6.	Kintner DB, Chen X, Cramer SW, Luo J, and Sun D. Dysregulation of endoplasmic reticulum calcium in response to oxygen glucose deprivation and reoxygenation: neurons vs. astrocytes. (55.24/R22) Poster presented at 37th annual meeting of Society for Neuroscience, San Diego, CA, Nov 2007.
7.	Vitzthum L, Chen X, Kintner DB, Huang Y, Williams J, Sun D. The role of Na ⁺ /H ⁺ exchangers in the pH regulation of neuronal dendrites: A novel approach with microfluidic devices. (150.4/Y29) Poster presented at 38th annual meeting of Society for Neuroscience, Washington, DC, Nov 2008.
8.	Kintner DB, Chen X, Matsuda T, Baba A, Cohen M, Taunton J, Sun D. A role for NHE1 and NCX in dysregulation of dendritic ionic homeostasis following in vitro ischemia. (646.18/W31) Poster presented at 38th annual meeting of Society for Neuroscience, Washington, DC, Nov 2008.

9.	Chen X, and Sun D. Inhibition of Na ⁺ -K ⁺ -Cl ⁻ cotransporter attenuates ERAD dysfunction in neurons following in vitro ischemia. (646.20/W33) Poster presented at 38th annual meeting of Society for Neuroscience, Washington, DC, Nov 2008.
10.	Sun D, Chen X, Cohen M, Chiu B, Taunton J and Kintner DB. The concerted role of Na ⁺ /H ⁺ exchanger and reversal of Na ⁺ /Ca ²⁺ exchange in the dysregulation of dendritic Na ⁺ and Ca ²⁺ homeostasis and mitochondrial damage following in vitro ischemia. Poster presented at 39th Annual Meeting of the Society-for-Neuroscience, Chicago, IL, 2009
11.	Liu Y, Kintner DB, Chen X, Algharabli J, Olson J and Sun D. Activation of microglia following in vitro ischemia depends on Na ⁺ /H ⁺ exchange-mediated H ⁺ homeostasis. Poster presented at 39th Annual Meeting of the Society-for-Neuroscience, Chicago, IL, 2009
12.	Chen X, Mattson M and Basta M. Inhibition and Scavenging of Complement as Therapeutic Targets in the Mouse Model of Acute Ischemic Stroke (S103) Poster presented at 136th annual meeting of American Neurological Association, San Diego, CA, September 2011
13.	Liu D, Pitta M, Jiang H, Lee JH, Chen X, Zhang G, Mughal M and Mattson M. The NAD ⁺ precursor nicotinamide ameliorates cognitive decline in a mouse model of Alzheimer's Disease: evidence for the involvement of CREB, mitochondrial resistance to oxidative stress and autophagy. (665.07/K11) Poster presented at 41th annual meeting of Society for Neuroscience, Washington, DC, Nov 2011.
14.	Chen X, Lee JH, Wan R., Mughal MR, Liu D, Basta M, and Mattson M. Therapeutic efficacy of natural inhibitors of the complement cascade in a mouse model of focal ischemic. (62.04/FF10) Poster presented at 41th annual meeting of Society for Neuroscience, Washington, DC, Nov 2011.
15.	Chen X, Mattson M, Basta M. Inhibition and Scavenging of Complement as Therapeutic Targets in the Mouse Model of Acute Ischemic Stroke: S103. <i>Annals of Neurology</i> . 2011 Oct;70. https://onlinelibrary.wiley.com/doi/10.1002/ana.22579
Invited Reviews	
1.	Chen, X., Zhao, S., Song, Y., Shi, Y., Leak, R. K., & Cao, G. (2015). The Role of Nicotinamide Phosphoribosyltransferase in Cerebral Ischemia. <i>Curr Top Med Chem</i> , 15(21), 2211-2221. https://doi.org/10.2174/1568026615666150610142234
Book Chapters	
1.	Chen, X. , and Sun, D. (2008). ER Ca ²⁺ dysregulation and ER stress in cerebral ischemic damage. <i>New Frontiers in Neurological Research</i> . 1-18.
2.	Eitan, O., Chen, X. , Basta, M., Mattson, M. (2011). Roles of Innate Immunity and Inflammation in the Aging Brain. <i>Inflammation, Life Style and Chronic Diseases</i> . 1-36.
Other Publications	
1.	Chen, X. (2003). The role of nucleotide excision repair in nephrotoxins-induced DNA damage in human embryonic kidney 293 cells. Master's thesis, Dalian Medical University, Dalian, China
2.	Chen, X. (2009). Dissertation: ER Ca ²⁺ dysregulation and ER stress in ischemic neurons: role of Na ⁺ -K ⁺ -Cl ⁻ cotransporter. Doctoral dissertation, University of Wisconsin-Madison, Madison, WI
Patent	

2012-present	Combination therapy using immunoglobulin and C1-inhibitor. co-inventor. WO EP US CN JP KR AU CA DK ES HK AU2012311483B2 Xinzhi CHEN Csl Behring Gmbh PCT/EP2012/068643			
<u>Other Scholarly Activities</u>				
Journal Reviewer				
2009- 2018	Ageing Research Reviews International Journal of Nanomedicine International Journal of Stroke Journal of Central Nervous System Disease Journal of Cerebral Blood Flow & Metabolism Journal of Neurochemistry Neurobiology of Aging NeuroMolecular Medicine			
<u>Teaching</u>				
Primary Teacher				
Term/Years	Course Number & Title	No. of Students	Level	Didactic or Clinical
2021-2023 Summer	NSG 401 - Functional Health Patterns of Adults III- Misericordia University	~25/term	ABSN	Didactic/sim
2021-2023 Summer	NSG 303 - Functional Health Patterns of Adults II- Misericordia University	~25/term	ABSN	Didactic/lab/sim
2021-2022 Fall	NSG 201 - Foundations Essential to Professional Nursing Practice- Misericordia University	~25/term	ABSN	Didactic/lab
1997-2004 Fall, Spring	Nutrition; Food science; Toxicology; Environmental health; Occupational medicine-Dalian Medical University	800/year	Junior/ Senior MSc and ADN/ BSN	Didactic/lab/clinical
Clinical/Skills Lab Teacher				
2024 Spring	NUR 1020C Advanced Nursing Management of the Adult with Acute/Complex Health Problems	7	Junior BSN	Clinical
2023 Fall	NUR 1020C Advanced Nursing Management of the Adult with Acute/Complex Health Problems	8	Junior BSN	Clinical

2021-2023 Summer	NSG 404C Functional Health Patterns Adults IV (Critical care)- Misericordia University	8-16/term	ABSN	Clinical/Sim
2021-2023 Summer	NSG 303L - Functional Health Patterns of Adults II Lab- Misericordia University	~25/term	ABSN	Lab/sim
2018 to 2021 Fall, Spring, Summer	UPNS 323 Adult Health and Illness - Duquesne University	8/semester	Junior /Senior BSN/ABSN	Lab/clinical/
2018 to 2021 Fall, Spring, Summer	UPNS 200 Fundamentals of Nursing Practice and Clinical Ethics- Duquesne University	8/semester	Junior /Senior BSN/ABSN	Lab/clinical/
2005	Teaching Assistant: Zoology 152 - University of Wisconsin-Madison	30	sophomore BSc.	Teaching Assistant
Guest Lecturer				
Term	Course Number & Title	No. of Students	Level	Topic
2022 Fall	MHH314 Environmental Health	~20	Junior BSc.	Health and Safety in Healthcare
Specialized Contribution				
1998- 2003	The original question bank establishment for Chinese national medical licensing examination (MLE) system and training instructor.			
Mentoring Activities				
2023	Ashley Yang- BSN student	University of Pittsburgh URMP		
2009	Yadira Arellano-Undergraduate student	University of Texas at El Paso		
2007	Adriana Rosale-Undergraduate Student	UW-Madison Integrated Biological Sciences Summer Research Program/ the Ronald McNair Post-Baccalaureate Achievement Program		
2006	Sam Cramer-Undergraduate student	University of Wisconsin-Madison		
2005	Josiah Gerdts- Undergraduate student	University of Wisconsin-Madison		
2003	Huimin Wang- Research fellow	Dalian medical university		
Service				
University				
2023- present	NDFO- University of Pittsburgh-SON			
2021- 2023	Misericordia Interprofessional Education Connection (MIPEC)- Misericordia University			
2021- 2023	NDFO- Misericordia University			
School of Nursing				

2023-present	BSN Council - University of Pittsburgh SON
2021-2023	Undergraduate scholarship committee at the Department of nursing- Misericordia University
2021-2023	Facilitator of Open House, the White Coat Ceremony, the Pinning Graduation Ceremony for ABSN nursing students at Misericordia University-Pittsburgh campus
Community Service/Activities	
2016-present	Professional Medical Interpreter (Mandarin), Steel City interpreters, Pittsburgh, PA USA