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EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Major Field</u>	<u>Minor Field</u>	<u>Date Completed</u>
Ph.D.	Case Western Reserve Univ.	Nursing	Nursing	Jan., 2006
MSN	Chiang Mai Univ. (Thailand)	Nursing	Maternal Child	July, 1996
BSN	Beijing Medical Univ. (New name: Peking Univ., China)	Nursing	Nursing	July, 1990

PROFESSIONAL EXPERIENCE

<u>From - To</u>	<u>Institution</u>	<u>Nature of Work</u>	<u>Academic Status</u>
2016-ongoing	UConn Center for Advancement in Managing Pain (CAMP)	Administration	Director
2014-ongoing	University of Connecticut School of Nursing, Storrs, CT	Faculty	Associate Professor (Tenured)
2013-ongoing	University of Connecticut Institute for Systems Genomics	Affiliated Faculty	
2013-ongoing	University of Connecticut School of Medicine - Dept of Pediatrics	Affiliated Faculty	
2008-2014	University of Connecticut School of Nursing, Storrs, CT	Faculty	Assistant Professor (Tenure-Track)
2006-2008	Adelphi University School of Nursing, Garden City, NY	Faculty	Assistant Professor (Tenure-Track)
2002-2005	Case Western Reserve University Bolton School of Nursing, Cleveland, OH	Clinical Research	Research Associate /Project Director
2001-2002	Case Western Reserve University Bolton School of Nursing, Cleveland, OH	Clinical Research	Research Associate & Teaching Assistant
2000-2001	University of Maryland at Baltimore, Baltimore, MD	Clinical Research	Research Assistant
1999-2000	Beijing Medical University School of Nursing Beijing, China	Faculty	Director of Academic Affairs Office
1990-2000	Beijing Medical University School of Nursing Beijing, China	Faculty	Instructor/Lecture

OTHER PROFESSIONAL EXPERIENCE

<u>Time</u>	<u>Institution</u>	<u>Nature of Work</u>
2014	National Institute of Nursing Research, NIH, Bethesda, MD	Summer Genetic Institute
2010	National Institute of Nursing Research, NIH, Bethesda, MD	Pain Methodologies Boot Camp

HONORS/AWARDS

- 05/2017: Mary Lawrence Award for Research Excellence, UConn School of Nursing
- 03/2016: Recognized as one of “9 Best Female Scientists You Should Know”, among "the coolest women scientists working today" by FIAT PHYSICA <https://www.fiatphysica.com/blog/women-in-science/coolest-female-scientists-working-today>
- 10/2015: Outstanding Poster Presentation in the New Investigator Category, NIH NINR 30th Anniversary Scientific Symposium and Poster Session, *Advancing Science, Improving Lives*
- 05/2014: Mary Lawrence Research Productivity Award, UConn School of Nursing
- 4/2013: Eastern Nursing Research Society/American Nurses Foundation Scholar Award
- 2/2013: Scholarly Excellence Award, Institute for Nursing Research and Evidence-Based Practice Connecticut Children’s Medical Center, Hartford, CT.
- 09/2012: American Nurse Foundation Research award
- 09/2012: Outstanding Alumni Award, Peking University School of Nursing, China
- 08/2009: Mary Lawrence Research Development Award, UCONN School of Nursing
- 2001: Graduate Merit Award, Univ. of Maryland at Baltimore Graduate School, Baltimore.
- 2001: Research and Educational program: “Curriculum Innovation and Practice in the Baccalaureate Degree Nursing Program” was awarded the Outstanding Paper Award and Research and Educational Achievement in the Higher Education and Teaching (second place) by Beijing Governor.
- 2000: Outstanding Instructor, Beijing Medical Univ., Beijing, China
- 1999: Outstanding Junior Teacher, Beijing Medical Univ., Beijing, China
- 1997: Excellent Teacher of Continuing Education, Beijing Medical Univ., Beijing, China
- 1994: Outstanding Instructor, Beijing Medical Univ., Beijing, China
- 1994: Outstanding Achievement Award in teaching, Beijing Medical University, Beijing, China.

PUBLICATIONS

A. Selected Full-Length Journal Articles, Refereed ([DB] = data-based; [CA] = corresponding author)

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1z1NfmgiPcFQW/bibliography/41619172/public/?sort=date&direction=ascending>

Citation since 2013: 751; h-index: 17; i10-index: 20

(<https://scholar.google.com/citations?user=6K3vyPsAAAAJ&hl=en>)

Casavant, S. **Cong, X.**, Fitch, H., Moore, J., Rosenkrantz, T., Starkweather, A. (in press) Allostatic load and

biomarkers of stress in the preterm infant: An integrative review. Accepted in May, 2018. *Biological Research for Nursing*.

- Perry, M., Tan, Z., Chen, J., Weidig, T., Xu, W., & **Cong, X.** (in press). Neonatal pain: Perceptions and current practice. *Critical Care Nursing Clinics of North America*. Accepted in January, 2018. [CA]
- Wang, Y., Briere, C.E., Xu, W., **Cong, X.** (2018). Factors affecting breastfeeding outcomes at six month in preterm infants. *Journal of Human Lactation*. 2018 Apr 1:890334418771307. doi: 10.1177/0890334418771307. [Epub ahead of print] [DB] [CA]
- Cong, X.**, Ramesh, D., Perry, M., Xu, W., Bernier, K.M., Young, E.E., Walsh, S., Starkweather, A. (2018). Pain self-management plus nurse-led support in young adults with irritable bowel syndrome: Study protocol for a pilot randomized control trial. *Research in Nursing and Health*. 2018 Feb 1. doi: 10.1002/nur.21862. [CA]
- Romisher, R., Hill, D., **Cong, X.** (2018). Neonatal Abstinence Syndrome: Exploring Nurses' Attitudes, Knowledge, and Practice. *Advances in Neonatal Care*. 2018 Jan 22. doi: 10.1097/ANC.0000000000000462. [DB] [CA]
- Vittner, D., **Cong, X.**, McGrath, J., Robinson, J. (2018). Oxytocin Enhances Developing Relationships with Skin-to-Skin Contact. *Biological Nursing for Research*, 2018 Jan;20(1):54-62. doi: 10.1177/1099800417735633. [DB]
- Cong, X.**, Perry, M., Bernier, K.M., Young, E.E., & Starkweather, A. (2017). Effects of Self-Management Interventions in Patients with Irritable Bowel Syndrome: Systematic Review. *Western Journal of Nursing Research*. 2017 Aug 1:193945917727705. doi: 10.1177/0193945917727705. [CA]
- Xu, W., Judge, M., Maas, K., Hussain, N., McGrath, J.M., Henderson, W.A., & **Cong, X.** (2017). Systematic Review of the Effect of Enteral Feeding on Gut Microbiota in Preterm Infants. *Journal of Obstetric, Gynecologic, & Neonatal Nursing (JOGNN)*. Oct 14. pii: S0884-2175(17)30407-0. doi: 10.1016/j.jogn.2017.08.009.
- Cong, X.**, Wu, J., Vittner, D., Xu, W., Hussain, N., Galvin, S., Fitzsimons, M., McGrath, J.M., Henderson, W.A. (2017). The Impact of Accumulative Pain/Stress on Neurobehavioral Development of Preterm Infants in the NICU. *Early Human Development*, 2017 May;108:9-16. doi: 10.1016/j.earlhumdev.2017.03.003. [DB] [CA]
- Cong, X.**, Judge, M., Xu, W., Diallo, A., Janton, S., Brownell, E., Matson, A., Maas, K., Graf J. (2017) Influence of Feeding Type on Gut Microbiome Development in Hospitalized Preterm Infants. *Nursing Research*. 2017 Mar/Apr;66(2):123-133. doi: 10.1097/NNR.0000000000000208. PMID: 28252573. [DB] [CA]
- D'Agata, A.L., Walsh, S. Vittner, D., **Cong, X.**, McGrath, J.M., Young, E. (2017) FKBP5 Genotype and Early Life Stress Exposure Predict Neurobehavioral Outcomes for Preterm Infants. *Developmental Psychobiology*. 2017 Apr;59(3):410-418. doi: 10.1002/dev.21507. [DB]
- D'Agata, A., Sanders, M., Grasso, D. J., Young E., **Cong, X.**, & McGrath J. M. (2017). Unpacking the Burden of Care for Infants in the NICU. *Infant Mental Health Journal*. 2017 Mar;38(2):306-317. doi: 10.1002/imhj.21636.

- Vittner, D., **Cong, X.**, Ludington-Hoe, S.M., McGrath, J.M. (2017). A survey of skin-to-skin contact with perinatal nurses. *Applied Nursing Research*. 2017 Feb;33:19-23. doi: 10.1016/j.apnr.2016.09.006. [DB]
- Briere, C.E., McGrath, J.M., **Cong, X.**, Brownell, E., & Cusson, R. (2016). Direct-breastfeeding in the neonatal intensive care unit and breastfeeding duration for premature infants. *Applied Nursing Research*. 2016 Nov; 32:47-51. doi: 10.1016/j.apnr.2016.04.004. [DB]
- Diallo, A., **Cong, X.**, Henderson, W. A. & McGrath J. M. (2017). Management of childhood diarrhea in low income countries by healthcare professionals: An Integrative Review. *International Journal of Nursing Studies*, 2017 Jan;66:82-92. doi: 10.1016/j.ijnurstu.2016.08.014. Epub 2016 Sep 1.
- Xu, W., Walsh, S., **Cong, X.** (2016). Development of Accumulated Pain/ Stressor Scale (APSS) in NICUs: A National Survey. *Pain Management Nursing*. 2016 Dec;17(6):354-362. doi: 10.1016/j.pmn.2016.08.004. Epub 2016 Oct 15. [DB] [CA]
- D'Agata, A., Young, E.E., **Cong, X.**, Grasso, D.J., McGrath, J.M. (2016). Infant Medical Trauma in the Neonatal Intensive Care Unit (IMTN): A Proposed Concept for Science and Practice. *Advances in Neonatal Care*, 2016 Aug;16(4):289-97. doi: 10.1097/ANC.0000000000000309.
- Cong, X.**, Xu, W., Romisher, R., Poveda, S., Forte, S., Starkweather, A., Henderson, W.A. (2016). Gut Microbiome and Infant Health: Brain-Gut-Microbiota Axis and Host Genetic Factors, *Yale Journal of Biology and Medicine*. 2016 Sep 30;89(3):299-308. Review. [CA]
- Cong, X.**, Xu, W., Janton, S., Henderson, W.A., Matson, A., McGrath, J.M., Maas, K., Graf, J. (2016). Gut Microbiome Developmental Patterns in Early Life of Preterm Infants: Impacts of Feeding and Gender, *PLoS One*. 2016 Apr 25;11(4):e0152751. doi: 10.1371/journal.pone.0152751. eCollection 2016. [DB] [CA]
- French, C., **Cong, X.**, Chung, K.S. (2016) Labor Epidural Analgesia and Breastfeeding: A Systematic Review. *Journal of Human Lactation, Journal of Human Lactation*. 2016 Aug;32(3):507-20. doi: 10.1177/0890334415623779. Epub 2016 Apr 27.
- Molloy, B.L., **Cong, X.**, & Watson, C. (2016). Preventive Dorzolamide-Timolol for Rising Intraocular Pressure During Steep Trendelenburg Position Surgery. *American Association of Nurse Anesthetists - AANA Journal*. 2016 Jun;84(3):189-96. PMID: 27501654. [DB]
- Vazquez, V., **Cong, X.** DeJong, A. (2015) Maternal and Paternal Knowledge and Perceptions Regarding Infant Pain in the NICU. *Neonatal Network*, Nov/Dec., 34 (6). 337-344. [DB] [CA]
- Lucas, RF., Judge, M., Sajdlowska, J., **Cong, X.**, McGrath, J., Brandon, D. (2015) Effect of Maternal Body Mass Index on Infant Breastfeeding Behaviors and Exclusive Direct Breastfeeding. *Journal of Obstetric, Gynecologic, & Neonatal Nursing*. Nov-Dec; 44(6):772-83. doi: 10.1111/1552-6909.12755. Epub 2015 Sep 24. [DB]
- Cong, X.**, Henderson, W.A., Graf, J., & McGrath, J.M. (2015). Early Life Experience and Gut Microbiome: the Brain-Gut-Microbiota Signaling System, *Advances in Neonatal Care*. 2015 Oct;15(5):314-23; quiz E1-2. doi: 10.1097/ANC.0000000000000191. [CA]

- Cong X**, Ludington-Hoe SM, Hussain N, Cusson RM, Walsh S, Vazquez V, Briere CE, Vittner D. (2015). Parental oxytocin responses during skin-to-skin contact in pre-term infants. *Early Human Development*. Jul;91(7):401-6. doi: 10.1016/j.earlhumdev.2015.04.012. [DB] [CA]
- Briere CE, McGrath JM, **Cong X**, Brownell E, Cusson R. (2015). Direct-Breastfeeding Premature Infants in the Neonatal Intensive Care Unit. *Journal of Human Lactation*. Aug;31(3):386-92. doi: 10.1177/0890334415581798.
- Cong, X.** (2015). Heel stick test for obtaining blood samples in neonates: both swaddling and heel warming may help, but heel warming appears to provide greater pain reduction. *Evidence Based Nursing*. 2015 Oct;18(4):118. doi: 10.1136/eb-2014-102048. [CA]
- Vazquez, V. & **Cong, X.** (2014). Parenting the NICU Infant: A Meta-ethnographic Synthesis, *International Journal of Nursing Sciences*. 1(3), 281–290. doi:10.1016/j.ijnss.2014.06.001 [CA]
- Molloy, B., & **Cong, X.** (2014) Perioperative Cosopt™ Intervention for Rising Intraocular Pressure During Steep Trendelenburg Position Surgery. *The American Association of Nurse Anesthetists - AANA Journal*. June 2014, V01 82, No 3, 203 - 211. [DB]
- Briere, C., McGrath, J., **Cong, X.**, Cusson, R. (2014). An Integrative Review of Factors that Influence Breastfeeding Duration for Premature Infants after NICU Hospitalization, *Journal of Obstetric, Gynecologic, & Neonatal Nursing (JOGNN)*, 2014 May-Jun;43(3):272-81. doi: 10.1111/1552-6909.12297. Epub 2014 Apr 1.
- Cong, X.**, McGrath, J., Delaney, C., Chen, H., Liang, S. Vazquez, V. Keating, L., Chang, K., & Dejong, A. (2014) Neonatal nurses' perceptions of pain management: Survey of U.S. and China. *Pain Management Nursing*. 2014 Dec;15(4):834-44. doi: 10.1016/j.pmn.2013.10.002. [DB] [CA]
- Briere, C., McGrath, J., **Cong, X.**, & Cusson, R. (2014). State of the science: A contemporary review of feeding readiness in the preterm infant. *Journal of Perinatal & Neonatal Nursing*, Jan-Mar; 28(1): 51–58.
- Cong, X.**, McGrath, J.M., Cusson, R.M., & Zhang, D. (2013). Pain assessment and measurement in neonates: An updated review. *Advances in Neonatal Care*. Dec;13(6):379-95. doi: 10.1097/ANC.0b013e3182a41452. [CA]
- Cong, X.**, Delaney, C., & Vazquez, V. (2013) Neonatal nurses' perceptions of pain assessment and management in NICUs: A national survey. *Advances in Neonatal Care*. Oct;13(5):353-60. doi: 10.1097/ANC.0b013e31829d62e8. [DB] [CA]
- Cong, X.**, Ludington-Hoe, S.M., Vazquez V., Zhang, D., & Zaffetti, S. (2013). Ergonomic procedure for heel sticks and shots in the Kangaroo Care (Skin-to-Skin Contact) Position. *Neonatal Network*. Sep-Oct;32(5):353-7. doi: 10.1891/0730-0832.32.5.353. [CA]
- Good, M., Albert, J.M., Arafah, B., Anderson, G.C., Wotman, S., **Cong, X.**, Lane, D., & Ahn, S. (2013). Effects on postoperative salivary cortisol of relaxation/music and patient teaching about pain management. *Biological Research for Nursing*. 2013 Jul;15(3):318-29. [DB]

- Cong, X.**, Cusson, R., Walsh, S. Hussain, N., Ludington, S & Zhang, D. (2012). Effects of Skin-to-Skin Contact on autonomic pain responses in preterm infants. *Journal of Pain*. Jul; 13(7):636-45. [DB] [CA]
- Judge MP, **Cong X**, Harel O, Courville AB, Lammi-Keefe CJ. (2012) Maternal consumption of a DHA-containing functional food benefits infant sleep patterning: An early neurodevelopmental measure. *Early Human Development*. Jul; 88(7): 531-7. [DB]
- Cong, X.**, Cusson, R.M., Hussain, N., Zhang, D., & Kelly, S.P. (2012). Kangaroo care and behavioral and physiologic pain responses in very low birth weight twins: A case study. *Pain Management Nursing*. 2012 Sep;13(3):127-38. [DB] [CA]
- Cong, X**, Ludington, S., & Walsh, S. (2011). Randomized cross-over trial of Kangaroo Care to reduce bio-behavioral pain responses in preterm infants: A pilot study. *Biological Research for Nursing*. Apr;13(2):204-16. [DB] [CA]
- Good, M., Albert, M. A., Anderson, G. C., Wotman, S., **Cong, X.**, Lann, D., Ann, S. (2010). Supplementing Relaxation and Music for Pain after Surgery. *Nursing Research*, 59(4):259-69. [DB]
- Cong, X**, Ludington, S., McCain, G., & Fu, F. (2009). Kangaroo Care Modifies Preterm Infant Heart Rate Variability in Response to Heel Stick Pain: Pilot Results. *Early Human Development*, 85, 561-567. [DB] [CA]
- Kostandy, R., **Cong, X.**, Bronson, C., Stankus, A., Jarrell, J.R., Abouelffetoh, A. & Ludington-Hoe, S.M. (2008). Kangaroo Care (skin contact) reduces crying response to pain in preterm neonates: pilot results. *Pain Management Nursing*, 9(2):55-65. [DB]
- Ludington, S. M., Lewis, T., Morgan K., **Cong, X.**, Anderson, L., & Reese, S. (2006). Breast and infant temperatures with twins during shared Kangaroo Care. *JOGNN*, 35 (2), 1-9. [DB]
- Good, M., Anderson, G. C., Ahn, S., **Cong, X.**, & Stanton-Hicks, M. (2005). Relaxation and music reduce pain following intestinal surgery. *Research in Nursing and Health*, 28, 240-251. [DB]
- Good, M., Wotman, S., Anderson, G. C., Ahn, S., & **Cong, X.** (2004). Obtaining parotid saliva specimens after major surgery. *Biological Research for Nursing*, 6(2), 110-116.
- Ludington, S. M. & **Cong, X.** (2002). Infant crying: Nature, physiologic consequences and select interventions. *Neonatal Network*, 21(2), 29-36.
- Ludington, S. M. & **Cong, X.** (2001). Infant crying: Why is it so bad? *Central Line*, 17(4), 11-13.
- Cong, X.**, & Yao, J. P. (1996). Nursing master's education and the missions of master's graduates in China. *Chinese Journal of Nursing*, 5, 290-292. [CA]

B. Selected Abstracts Published in Refereed Journals ([DB] = data-based; [CA] = corresponding author)

- Richardson, K., Vittner, D., **Cong, X.** (2016). Neonatal Nurses' Attitudes, Knowledge and Practices of Skin-to-Skin Contact [Abstract], *Advances in Neonatal Care*, 16 (3), E11. [DB] [CA]

- Xu, W., **Cong, X.**, Henderson, W.A., Matson, A., McGrath, J.M., Maas, K., Graf, J. (2016). Feeding Type in Modulating Premature Infant Gut Microbiota [Abstract]. *Advances in Neonatal Care*, 16 (3), E12. [DB]
- Cong, X.**, Cusson, R., Walsh, S., & Vazquez, V. (2014). Oxytocin Mechanism in Modulating Parental Stress and Anxiety during Skin-to-Skin Contact with Preterm Infants [Abstract]. *Advances in Neonatal Care*. 14 (3), 213. [DB] [CA]
- Vazquez, V. & **Cong, X.** (2014). Parental Attitudes Regarding Infant Pain in the NICU [Abstract]. *Advances in Neonatal Care*. 14 (3), 214. [DB]
- Good, M., Seo, Y., **Cong, X.**, & Huang, S-T. (2004). Development and psychometric properties of the opioid side effects scale for postoperative patients [Abstract]. *The Journal of Pain*, 5(3), 77. [DB]
- Good, M., & **Cong, X.** (2004). Sleep patterns in postoperative patients [Abstract]. *The Journal of Pain*, 5(3), 124. [DB]
- Good, M., Al-Dgheim, R., & **Cong, X.** (2004). Relaxation and music reduce pain after abdominal surgery in older adults [Abstract]. *The Journal of Pain*, 5(3), 92. [DB]
- Good, M., Huang, S-T., **Cong, X.**, & Seo, Y. (2004). Development and psychometric properties of the postoperative activity scale [Abstract]. *The Journal of Pain*, 5(3), 114. [DB]

C. Publications in Review ([DB] = data-based; [CA] = corresponding author)

- Xu, W., Luo, Z., Alekseyenko, A., Martin, L., Wan, Z., Qin, Z., Kilby, J.M., Heath, S., **Cong, X.**, Jiang, W. (in review). Elevated plasma anti-CD4 autoantibody in HIV-infected patients under viral suppressive antiretroviral therapy and its association with systemic microbial translocation and plasma microbiome, *Scientific Review*. [DB]
- Newline, K. Starkweather, A., Cong, X., & Judge, M. (in review). The gut microbiome and type 2 diabetes: An integrative review. *Nursing Research*.

D. Publications in Preparation ([DB] = data-based; [CA] = corresponding author)

- Richardson, K., Vittner, D., Cong, X. Neonatal Nurses' Attitudes, Knowledge and Practices of Skin-to-Skin Contact, *Advances in Neonatal Care* [DB] [CA]
- Vittner, D., Scatliffe, N., & Cong, X. OT and parent-infant contact: a systematic review [CA]

E. Books and Book Chapters:

- Cong, X.** (2016). Developmental Care (Chapter 10). In C. Kenner & J. W. Lott (Eds.), *Neonatal Nursing Care Handbook: An Evidence-Based Approach to Conditions and Procedures, 2nd Edition*. ISBN-10: 0826171648, ISBN-13: 9780826171641

F. Selected Books and Book Chapters: (in Chinese)

- Cong, X.** (2018) Principles and guides for feeding and nursing care in preterm infants; In B. Chen (Eds.), *Principles and Guides for Neonatal and Infant Health Care*. Beijing: China Women Press.
- Cong, X.** (Co-editor; 2001, 2009). Principles of children's growth and development; Health promotion in the community; Nursing care for hospitalized children; Nursing care for healthy newborns and newborns with diseases; Nursing care for children with nutritional diseases; In J. L. Chen & **X. Cong** (Eds.), *Pediatric nursing: Textbook for Self-Study and Exam in National Higher Education Program: Associate Nursing Program*. Hunan: Scientific Press.
- Cong, X.** (Co-editor; 2001, 2009). Principles of children's growth and development; Nursing care for hospitalized children; Nursing care for healthy newborns and newborns with diseases; Nursing care for children with nutritional diseases. In J. L. Chen & **X. Cong** (Eds.), *Pediatric nursing: Student Study Guide: Textbook for Self-Study and Exam in National Higher Education Program: Associate Nursing Program*. Hunan: Scientific Press
- Cong, X.** (2000, 2009). Children's growth and development; Nursing process and Nursing care for hospitalized children and family; Nursing care of newborns and their family; Nursing care of children with nutritional diseases; Basic concepts and knowledge in pediatric nursing care. In D. L. Hong (Eds.), *Pediatric nursing: Textbook for National Associate Nursing Program and National Broadcast and Television University*. Beijing: Beijing Medical University Press.
- Cong, X.** (2000, 2009). Nursing process and Nursing care for hospitalized children and family; Nursing care of newborns and their family; Nursing care of children with nutritional diseases. In D. L. Hong (Eds.), *Pediatric nursing: Student study guide: Textbook for National Associate Nursing Program and National Broadcast and Television University*. Beijing: Beijing Medical University Press.
- Cong, X.** (2001). Educational principles and nursing education; Educational methods. In X. X. Zheng (Eds.), *Introduction of Nursing Education: Textbook for Self-Study and Exam in National Higher Education Program: Baccalaureate Nursing Program*. Hunan: Hunan Scientific and Technologic Press.
- Cong, X.** (1999, 1994). Educational psychology and its application in nursing; Teaching methods in nursing education. In X. X. Zheng (Eds.), *Educational theory and nursing education* (pp. 1-33; 239-250). Beijing: Beijing Medical University Press.
- Cong, X.** (1999). Growth and development: Health needs and nursing care for children and family. In Y. L. Zhu (Eds.), *Pediatric nursing: Textbook for National Undergraduate Nursing Program* (pp. 4-39, 59-71). Beijing: People's Health Press.
- Cong, X.** (1999). History and developing trends of nursing profession; General system theory, Theories related to growth and development. . In X. Zou (Eds.), *Nursing process: New concepts for modern nursing practice* (pp. 1-36; 105-151). Beijing: Beijing Medical University Press.
- Cong, X.** (Co-editor; 1998). Theoretical bases for nursing practice; Nursing cares for patient with pain. In X. X. Zheng, **X. Cong** & S. M. Shang (Eds.), *Fundamental nursing care: Textbook for National Associate Nursing Program and National Broadcast and Television University* (pp. 1-24, 54-56; 90-96). Beijing: Beijing Medical University Press.

Cong, X. (Co-editor; 1998). Introduction of nursing science; Theoretical base for nursing practice; Nursing theories and frameworks; Patients psychosocial responses. In X. X. Zheng, S. M. Shang & X. Cong (Eds.), *Fundamental nursing care: Student study guide: Textbook for National Associate Nursing Program and National Broadcast and Television University* (pp. 1-8; 9-19; 23-28; 36-43). Beijing: Beijing Medical University Press.

Cong, X. (1993). Comparisons and applications of nursing theories developed by different theorists. In X. Zou (Eds.) *Nursing Theory*. (pp. 36-46). Beijing: Beijing Medical University Press.

G. Multimedia

Cong, X. (2014) Nursing education and research in the U.S. 1 hr. National Broadcast and Television University, Beijing, China.

Cong, X., Shang, SM., & Shun, YM. (2000). Fundamental Nursing. 18 credits, 900 hours, National Broadcast and Television University, Beijing, China.

RESEARCH GRANTS (Awarded)

External Research Grants

- | | | |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 9/14/2017-
7/31/2021 | NIH-NINR RO1 NR016928 (PI: Cong, X.)
<i>Multi-Omics Analysis of Pain/Stress Impact on Neurodevelopment in Preterm Infants</i>
Total award: \$1.8 million (Total: \$1,857,885; Direct cost: \$1,798,584; Annual Directs \$459,571)
The goals of the study are to examine linkages between cumulative pain/stress experiences in the NICU and infant gut microbiome and neurodevelopment; interactions among gut microbiome, host genetic variation and early life pain/stressors that contribute to neurodevelopmental outcomes; and the impact of different levels of pain/stress experiences on the gut microbiome and neurodevelopment and other growth parameters using twin-pairs.
Role: Principle Investigator | 3.50 FTE |
| 8/1/2016-
7/31/2021 | NIH-NINR 1P20NR016605-01 (PI: Starkweather, A.)
<i>Center for Accelerating Precision Pain Self-Management</i>
The CAPPS-M Center proposes to implement interventions for patients suffering from chronic pain to help them self-manage their symptoms. Total award: \$1,698,000.
Pilot Project 1: <i>Precision Pain Self-Management in Young Adults with Irritable Bowel Syndrome</i> (8/1/2016 – 8/1/2018); Pilot project cost: \$ 25,000
Role: Co-Investigator/Pilot Project Investigator of Project 1 | 1.8 FTE |
| 9/1/2016-
8/31/2017 | American Nurses Association (ANF) (PI: Xu, W)
<i>Stress and Gut Inflammatory Responses in Modulating Neurodevelopmental Outcomes in Preterm Infants</i> . Total award: \$5000.
Role: Mentor/Co-Investigator | |
| 9/2014 -
ongoing | Keith & Katherine Stevenson Foundation (K & C Charitable Gift Fund) and Connecticut Children's Medical Center Foundation (Co-PIs: Cong, X. and Matson, A)
<i>Research equipment and materials for the gut microbiome research team in the NICU of Connecticut Children's Medical Center.</i>
Total costs; \$25,000/year (Total award \$75,000). | |

Role: Co-Principal Investigator

8/2015 – NIH-National Institute of Drug Abuse HHSN271201500087C (PI: Manworren, R.) 0.2 FTE
8/2016 *Center of Excellence in Pain Education (CoEPE)*. Total award: \$389,350.

Role: Co-Investigator

9/2013- NIH-NINR 1K23NR014674 (PI: Cong, X.) 9.0 FTE
7/2016 *Early Life Experience Imprints Gut Microbiome in Preterm Infants*
Total award: \$356,181

The project focused on investigating the regulation of early life stress by the brain-gut-microbiota axis and the prediction of neurodevelopmental outcomes in high-risk preterm infants.

Role: Principle Investigator

9/2015 – American Nurses Foundation (PI: Vittner, D.)
9/2016 *Bio-behavioral mechanisms during maternal and paternal skin to skin contact with preterm infants*. Total award: \$5000.

Role: Mentor/Co-Investigator

5/2015 – National Association of Neonatal Nurses (NANN) (PI: Vittner, D.)
5/2016 *Bio-behavioral Mechanisms during Maternal and Paternal Skin to Skin Contact with Preterm Infants*. Total award: \$2000

Role: Mentor/Co-Investigator

9/2015 – American Association of Nurse Anesthetists (AANA) (PI: French, C.)
9/2016 *Effect of Labor Epidural Analgesia with Hydromorphone on Breastfeeding and Neonatal Neurobehavioral Outcomes in the First 24 Hours of Life*.
Total award: \$5000.

Role: Mentor/Co-Investigator

9/2012- American Nurse Foundation (ANF) (PI: Cong, X.)
8/2013 *Oxytocin Mechanism During Maternal and Paternal Skin-to-Skin Contact with Preterm infants* Total award: \$7,500

This pilot study examined oxytocin mechanism in modulating infants' behavioral, autonomic, and stress responses and parental stress and anxiety during maternal and paternal skin-to-skin contact with preterm infants in the neonatal intensive care unit.

Role: Principal Investigator

4/2004- Association of Women's Health, Obstetric and Neonatal Nurses (AWHONN) and Johnson &
12/2005 Johnson Marshall Klaus Mother & Baby Nursing Research Award (PI: Cong, X.)
Kangaroo Care for Analgesia in Preterm Infants Undergoing Heal Stick Pain.
Total costs: \$5000.

Role: Principal Investigator

05/2001- NIH-NINR RO1-NR3933 (PI: Good, M.)
05/2006 *Supplementing Relaxation and Music for Postoperative Pain*. Total costs: \$1,838,263

Role: Graduate Research Assistant (2001-2003) and Project Director (2003-2006)

05/2004- NIH-NINR R03-NR08587 (PI: Ludington, S.M.)

- 05/2005 *Kangaroo Care to Blunt Pain in Premature Infants*. Total costs: \$754,000.
Role: Graduate Research Assistant
- 05/2000-
05/2005 NIH-NINR R01 NR 04926-01 (PI: Ludington, S.M.)
Effects of Skin-to-skin Contact (Kangaroo Care) between Preterm Infant and the Mother on Electrophysiologic Sleep. Total costs: \$1,856,239.
Role: Graduate Research Assistant
- 1/1998-
8/2000 Kellogg Foundation and University of Michigan School of Nursing, and Beijing Medical University (Co-PIs: Cong, X. and Shang, S.)
Community Nursing Education and Services. Total costs: \$22,000
Role: Co-Principal Investigator

Internal Grants

- 05/2018-
08/2018 University of Connecticut IDEA research grant (Honors students: Lao, A & Weidig, T.)
Support for Mothers and Families: A Battle on Neonatal Abstinence Syndrome
Total costs: \$8,000
Role: Faculty Mentor/PI
- 01/2018-
05/2018 UConn Social Science, Humanities, and Arts Research Experience (SHARE) Award
(Honors Student: Weidig, T.)
Psychosocial Factors Influence Pain and Quality of Life in Young Adults with Irritable Bowel Syndrome. Total costs: \$2000
Role: Faculty Mentor/PI
- 07/2017-
07/2018 UConn Scholarship Facilitation Award (PI: Cong, X.)
The association of genetic polymorphisms (SNPs) and symptoms in young adults with irritable bowel syndrome. Total costs: \$2,000
Role: Principal Investigator
- 10/1/2013-
9/30/2018 University of Connecticut Institute for Systems Genomics Affinity Research Collaboratives (ARCs) Grant (Cong, X: PI) 0.9 Person Months
Early Life Physiological and Psychosocial Stress Imprints Gut Microbiome in Preterm Infants. Total award: \$250,000.
This project has the central hypothesis that premature infants subjected to stressful early life experiences develop an altered gut microbiome increasing risk for neurodevelopmental morbidity and gastrointestinal dysfunction relative to the development of necrotizing enterocolitis (NEC). Using state-of-the-art analytic and computational methods, this study will be the first to investigate the linkage of early life stress with the brain-gut-microbiota mechanism in human preterm newborns.
Role: Principal Investigator
- 9/2017-
8/2018 University of Connecticut IDEA grant (Honors student: Lopiano, C.)
A Battle on Opiates: The NICU Nurse's Perspective on Neonatal Abstinence Syndrome.
Total award: \$4,000
Role: Faculty Mentor/PI
- 4/2016- UConn Institute for Collaboration of Health, Intervention and Policy (InCHIP) Faculty Seed

- 4/2018 Grant (PI: Cong, X.)
Bio-Genomic Markers for Management of Neonatal Abstinence Syndrome: A Pilot Study.
 Total award: \$15,000
 This project will investigate the relationships of bio-genomic-behavioral responses with clinical signs and symptoms of adequacy of treatment for NAS infants. Hypothesis: Hormonal biomarkers, genetic variations, and gut microbiome responses are highly correlated with neonatal physiological and behavioral responses of NAS and its management.
Role: Principal Investigator
- 11/2014- UConn University Scholar Program/Award (Honors student: Forte, F.)
 05/2016 *How Early life Stressors Alter the Gut Microbiome of Preterm Infants, as Measured by a New Tool - Accumulated Pain/Stressor Scale* Total award: \$
Role: Faculty Mentor/PI
- 05/2015- UConn Summer Undergraduate Research Fund (SURF) award (Honors student: Forte, F.)
 12/2015 *How Early life Stressors Alter the Gut Microbiome of Preterm Infants, as Measured by a New Tool: the Accumulated Pain/Stressor Scale?* Total award: \$3500
Role: Faculty Mentor/PI
- 05/2014- UConn Summer Undergraduate Research Fund (SURF) award (Honors student: Meegan, T.)
 12/2014 *Can Different Procedures in the NICU with Varying Degrees of Stress on the Neonate be Organized into a "Stressor Scale"?* Total award: \$2920.
Role: Faculty Mentor/PI
- 12/2013- UConn Social Science, Humanities, and Arts Research Experience (SHARE) Award
 12/2014 (Honors Student: Richardson, K.)
Neonatal Nurses' Perceptions of Mother-Infant Skin-to-Skin Contact in NICUs: A National Survey. Totals award: \$2000.
Role: Faculty Mentor/PI
- 08/2011 - UConn School of Nursing Josephine Toner Grant (PI: Cong, X.)
 08/2013 *Oxytocin Mechanism During Maternal and Paternal Skin-to-Skin Contact with Preterm Infants.* Total award: \$4,265.
Role: Principal Investigator
- 10/2010 UConn equipment grant (Co-PI: Cong, X.)
Intermediate Research Equipment Competition. Total award: \$26,069.
Role: Co-Principal Investigator
- 07/2009- UConn Foundation Faculty Large Grant (PI: Cong, X.)
 06/2011 *Effects of Kangaroo Care for Reducing Heel Stick Pain in Preterm Infants.*
 Total award: \$20,545.
Role: Principal Investigator,
- 01/2007- Adelphi University Faculty Development Grant (PI: Cong, X.)
 01/2008 *Effects of Kangaroo Care for Reducing Heel Stick Pain in Preterm Infants.* Total award: \$1800.
Role: Principal Investigator

9/2004-
12/2005 Case Western Reserve University Frances Payne Bolton School of Nursing Alumni Award (PI: Cong, X.)
Kangaroo Care for Analgesia in Preterm Infants Undergoing Heel Stick Pain. Total costs: \$500. **Role: Principal Investigator**

PRESENTATIONS

A. Invited / Keynote Addresses

- Cong, X.**, Xu, W., Ramesh, D., Perry, M., Bernier, K., Young, E., & Starkweather, A. (2018). Precision Pain Self-Management in Young Adults with Irritable Bowel Syndrome. UConn School of Nursing ATHENA Scholarship *Day Chronic Illness and Vulnerable Populations*, April 26, 2018.
- Cong, X.** (2017). Human Neonatal Gut Microbiome: Its Establishment & Impact. *2017 Hospital Authority Breastfeeding Conference: Sustaining Breastfeeding Together*. Oct. 17, 2017, Hong Kong.
- Cong, X.** (2017). Stress Management of Preterm and Sick Babies. *2017 Hospital Authority Breastfeeding Conference: Sustaining Breastfeeding Together*. Oct. 18, 2017, Hong Kong.
- Cong, X.** (2016). Kangaroo Mother Care and the Brain-Gut-Microbiota Signaling System. *11th Kangaroo Mother Care (KMC) Workshop and Congress*, November 16 - 17, 2016, Teatro Miela, Trieste, Italy
- Cong, X.** (2016). Pain/Stress, Gut Microbiome and Neurodevelopment in Preterm Infants in Regulation by the Brain-Gut-Microbiota Axis. *Connecticut Children's Medical Center Research Grand Round*, April 25, 2016 CCMC, CT.
- Cong, X.** (2016) Brain-Gut-Microbiota Axis in Regulation of Early Life Experience and Neurodevelopment in Preterm Infants. *UConn Nutrition Science Department (NUSC)*, September 29, 2016.
- Cong, X.** (2014). Nursing Research and Advanced Practice. Invited address at *The 9th National Forum of Obstetrics, Gynecology, and Postpartum Care: Practice and Research*, Beijing, China, Aug., 27 – 31, 2014.
- Cong, X.** (2012). Neonatal Pain Panel. At the *15th Annual Neonatal Advanced Practice Nursing Forum*, Washington, DC. May 30, 2012
- Cong, X.** (2011). Effects of Skin-to-Skin Contact on Pain in Preterm Infants. At *Research Seminar at Connecticut Children's Medical Center*, Hartford, CT. July 20, 2011.
- Cong, X.** (2011). Effects of Kangaroo Care on Reducing Infant Pain. On *Research Day at St. Francis Hospital*, CT. May 10, 2011.
- Cong, X.** (2006, June). Kangaroo care for analgesia in preterm infants undergoing heel stick pain. Initial Key Speaker at the Association of Women's Health, Obstetric and Neonatal Nurses (AWHONN) Convention, Maryland, MD.

B. International Presentations

- Vittner, D., **Cong, X.**, McGrath, J., Robinson, J. (2016). Biobehavioral mechanisms of mothers, fathers and infants during skin-to-skin contact. Poster presentation at *11th Kangaroo Mother Care (KMC) Workshop and Congress*, November 16 - 17, 2016, Teatro Miela, Trieste, Italy
- Cong, X.** (2016). Pain, Gut Microbiome and Neurodevelopment in Preterm Infants. Symposia Presentation, "Pain-Omics Across the Lifespan." *Sigma Theta Tau International Honor Society of Nursing (STTI) 27th International Nursing Research Congress 2016*, July 21-25, 2016, Cape Town, South Africa.
- Cong, X.**, Henderson, W. & McGrath, J. (2014). Brain-Gut-Microbiota Axis in Regulation of Early Life Experience and Advanced Technologies of Microbiome Genomic Sequencing, Podium presentation, *International Society of Nurses in Genetics (ISONG)-World Congress on Nursing and Genomics*. Scottsdale, AZ, Nov., 7 - 9, 2014.
- Vittner, D. & **Cong, X.** (2014). Oxytocin mechanism in modulating parental stress and anxiety during skin-to-skin contact with preterm infants. Paper presentation at *25th Annual NIDCAP Trainers Meeting* October 25-28, 2014 Parador de Segovia Segovia, Spain
- Cong, X.**, Cusson, R., & Zhang, D. (2011). Effects of Kangaroo Care on Reducing Bio-Behavioral Pain Responses in Preterm Infants, Accepted as paper presentation at the *Sigma Theta Tau International's 22nd International Nursing Research Congress and the 2nd International World Academy of Nursing Science (WANS) Conference*, July, 2011. Cancun, Mexico.
- Cong, X.**, Cusson, R., & Zhang, D. (2011). Effects of Maternal Skin-to-skin Contact (Kangaroo Care) on Reducing Bio-Behavioral Pain Responses in Preterm Infants. Paper presentation at the *5th Hong Kong International Nursing Forum*. June 3-5, 2011, Hong Kong.
- Cong, X.** (2010). Skin-to-Skin Contact (Kangaroo Care) on Heart Rate Variability in Preterm Infants Undergoing Heel Stick Pain: Pilot Study. Paper presented at *the 8th International Conference on Kangaroo Mother Care (KMC)*, June, 2010, Quebec City, Canada.
- Cong, X.** Ludington-Hoe, S.M. (2010). Kangaroo Care Reducing Bio-behavioral Pain Responses in Preterm Infants: A Pilot Study. Poster presented at the *8th International Conference on Kangaroo Mother Care (KMC)*, June, 2010, Quebec City, Canada.
- Kostandy R R, Ludington-Hoe SM, **Cong X**, Abouelfettoh A, Bronson C, Stankus A, Jarrell J. (2008). Kangaroo Care (Skin Contact) Reduces Crying Response to Pain in Preterm Infants. Paper presented at the *7th International Conference on Kangaroo Mother Care (KMC)*, June, Sweden
- Good, M. & **Cong, X.** (2005, May). *Sleep patterns in postoperative patients*. Paper presented at the International Council of Nursing Annual Conference, Taipei, Taiwan.
- Good, M., & **Cong, X.** (2004, May). *Sleep patterns in postoperative patients*. Poster presented at the American Pain Society Conference, Vancouver, BC.
- Good, M., Al-Dgheim, R., & **Cong, X.** (2004, May). *Relaxation and music reduce pain after abdominal surgery in older adults*. Poster presented at the American Pain Society Conference, Vancouver, BC.

Good, M., Huang, S-T., **Cong, X.**, & Seo, Y. (2004, May). *Development and psychometric properties of the postoperative activity scale*. Poster presented at the American Pain Society Conference, Vancouver, BC.

Good, M., Seo, Y., **Cong, X.**, & Huang, S-T. (2004, May). *Development and psychometric properties of the opioid side effects scale for postoperative patients*. Poster presented at the American Pain Society Conference, Vancouver, BC.

Good, M., Wotman, S., Anderson, G. C., Ahn, S., & **Cong, X.**, (2002, December). *Obtaining saliva specimens after major surgery*. Paper presented at 15th Nursing Academic International Congress, Cultural Diversity in Alternative Health Care and Nursing Therapeutics, Khon Kaen, Thailand.

C. National Presentations

Cong, X., Xu, W., Ramesh, D., Perry, M., Bernier, K., Young, E., & Starkweather, A. (2018). Precision Pain Self-Management in Young Adults with Irritable Bowel Syndrome, poster presentation at *2018 NINR Center Directors Meeting*, May 1, 2018, Bethesda, MD.

Cong, X., Xu, W., & Henderson, W. (2017). Infant Pain/Stress, Gut Microbiome and Neurodevelopment, poster presentation at *Council for the Advancement of Nursing Science, Advanced Methods: Pragmatic Trial Conference*, Oct. 4 – 6, 2017, Washington, DC.

Cong, X., Xu, W., Ramesh, D., Perry, M., Bernier, K., & Starkweather, A., (2017). Pain and Gut Microbiome Patterns in Young Adults with Irritable Bowel Syndrome, poster presentation at *Council for the Advancement of Nursing Science, Advanced Methods: Pragmatic Trial Conference*, Oct. 4 – 6, 2017, Washington, DC.

Cong, X., Xu, W., Matson, A., McGrath, J.M., Graf, J., Henderson, W. (2017). Pain/Stress, Gut Microbiome and Neurodevelopment in Preterm Infants in Regulation by the Brain-Gut-Microbiota Axis, poster presentation, *The Human Microbiome: Emerging Themes at the Horizon of the 21st Century*, August 16-18, 2017 National Institutes of Health, Bethesda, MD.

Cong, X., Starkweather, A., Young, E. (2017). Precision Pain Self-Management in Young Adults with Irritable Bowel Syndrome, poster presentation at *2017 NINR Center Directors Meeting*, May 2, 2017, Bethesda, MD.

Weaver, K., Joseph, P., Ozoji, O., Gill, J., Abey, S., Sherwin, L., Fourie, N., **Cong, X.** & Henderson, W. (2016). Adverse life events and perceived stress in patients with chronic abdominal pain, Poster presentation at *American Psychosomatic Society, Mid-Year Meeting, Neuroscience of Pain: Early Life Adversity, Mechanisms and Treatment*. October 15, 2016, NYC.

Xu, W. & **Cong, X.** (2016). Feeding Type in Modulating Premature Infant Gut Microbiome. *11th Annual Research Summit of National Association of Neonatal Nurses*, April 5-7, 2016, in Scottsdale, AZ.

Vittner, D., McGrath, J., **Cong, X.**, & Robinson, J. (2016). An integrative review of the NNNS with high-risk infants, *Eastern Nursing Research Society*, April 13 - 15, 2016, Pittsburgh, Pennsylvania

- Cong, X.,** Cusson, R.M., Walsh, S., & Vazquez, V. (2014). Oxytocin Mechanism Involved in Parental Bio-behavioral Responses during Skin-to-Skin Contact with Preterm Infants. Poster presentation at the *CANS State of the Science Congress on Nursing Research*. Washington DC, Sept. 18-20, 2014.
- Cong, X.,** McGrath, J., & Henderson, W. (2014) Early Life Stress Imprints Gut Microbiome in Preterm Infants: Pilot Study, Podium presentation – *symposium at the CANS State of the Science Congress on Nursing Research*. Washington DC, Sept. 18-20, 2014
- Cong, X.,** Cusson, R., Walsh, S., & Vazquez, V. (April, 2014). Oxytocin Mechanism in Modulating Parental Stress and Anxiety during Skin-to-Skin Contact with Preterm Infants. Paper presentation at *9th Annual Research Summit of the National Association of Neonatal Nurses (NANN)*, Scottsdale, AZ.
- Vazquez, V. & **Cong, X.** (April, 2014). Parental Attitudes Regarding Infant Pain in the NICU. Paper presentation at *9th Annual Research Summit of the National Association of Neonatal Nurses (NANN)*, Scottsdale, AZ.
- Daley, A., **Cong, X.,** & Walsh, S. (2013). School-Based Health Centers and Access to Prevention Counseling for Adolescents in High School, Poster presentation at *National Association of Pediatric Nurse Practitioners (NAPNP) 34th Annual Conference*, Orlando, FL, April 17-20.
- Cong, X.,** & Delaney, C. (Sept, 2012). Nurses' Perspectives and Knowledge Needs Related to Neonatal Pain. Paper presented at the *CANS - State of the Science Congress on Nursing Research*. Washington DC.
- Cong, X.,** Cusson, R., & Zhang, D. (2010). Effects of Skin-to-Skin (Kangaroo) Care on Reducing Bio-behavioral Pain Responses in Preterm Infants. Paper presented at the *2010 State of the Science Congress on Nursing Research*. Sept. 2010, Washington DC

D. Regional Presentations

- Cong, X.,** Xu, W., Ramesh, D., Perry, M., Bernier, K.M., Young, E., Starkweather, A. (2018). Self-Reported Pain, Pain Sensitivity and Gut Microbiome Pattern in Young Adults with Irritable Bowel Syndrome. Part of the Symposium: Starkweather, A., **Cong, X.,** Lucas, R. Precision in Pain Self-Management Across Populations. Symposium at 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.
- Beck, C.T., **Cong, X.,** LoGiudice, J. (2018). Establishing and Maintaining a Research Career: A Panel Discussion with Experts along the Path. 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.
- Chen, J., & **Cong, X.** (2018). Critical care nurses' perspective of pain and their self-reported practices of pain assessment toward nonverbal patients. Poster at the 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.
- Xu., W., **Cong, X.** (2018). The Impact of Cumulative Pain/Stress on Fecal Calprotectin Levels in Preterm Infants. Poster at the 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.
- Amirkhanzadeh Barandouzi, Z., Walsh, S., & **Cong, X.** (2018). Does the STDs knowledge of our college students is enough in the 21st century? Poster at the 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.

- Lopiano, C. & **Cong, X.** (2018) A battle on Opiates: The NICU nurse's perspective on Neonatal Abstinence Syndrome. Poster at the 30th Annual ENRS Scientific Sessions, April, 11-13, Newark, NJ.
- Xu, W., **Cong, X.**, & Henderson, W. (2017). The Role of Chronic Pain in Modulating Preterm Infants' Gut Microbiome, Paper presentation at *Eastern Nursing Research Society 29th Annual Scientific Sessions (ENRS)*, April 5 – 7, 2017, Philadelphia, PA.
- Vittner, D., **Cong, X.**, Robinson, J., McGrath, J. (2017). Enhancing Developing Relationships with Skin-to-Skin Contact, Paper presentation at *Eastern Nursing Research Society 29th Annual Scientific Sessions (ENRS)*, April 5 – 7, 2017, Philadelphia, PA.
- Xu, W. & **Cong, X.** (2017). The Impact of Accumulative Pain/Stress on Neurobehavioral Development of Preterm Infants in the NICU. Poster presentation at *Eastern Nursing Research Society 29th Annual Scientific Sessions (ENRS)*, April 5 – 7, 2017, Philadelphia, PA
- Starkweather, A., **Cong, X.**, McCauley, P. & Maruca, A. (2017). Pain and Opioid Use. *STTI Mu Chapter Research Day, Expert Panel at the Research Day*, March, 31, 2017, Hartford, CT,
- Vazquez, V. & **Cong, X** (2016). Relationships of Parent-Infant Contacts and Postpartum Depressive Symptoms in Mothers of Preterm Infants in the NICU: A Mixed Methods, Paper presentation at *Eastern Nursing Research Society 28th Annual Scientific Sessions (ENRS)*, April 12 – 15, 2016
- Cong, X.**, McGrath, J., Henderson, W., & Walsh, S. (2015). Stressful Early Life Experience in the NICU Imprints Infant Gut Microbiome. Paper presentation at *Eastern Nursing Research Society 27th Annual Scientific Sessions (ENRS)*, April 15 – 17, 2015, Washington, DC
- D'Agata, A.L., **Cong, X.**, & Young, E (2015). Exploring the Relationship between Genetic Variation of FKBP5 and Early Life Stress in the NICU, Poster presentation at *Eastern Nursing Research Society 27th Annual Scientific Sessions (ENRS)*, April 15 – 17, 2015, Washington, DC.
- D'Agata, A.L., McGrath, J, **Cong, X.**, & Young, E (2015). State of the Science: Characterizing the NICU Infant Experience as Traumatic. Poster presentation at *Eastern Nursing Research Society 27th Annual Scientific Sessions (ENRS)*, April 15 – 17, 2015, Washington, DC.
- Cong, X.**, Cusson, R., Walsh, S., & Vazquez, V. (2014). *Effects of Skin-to-Skin Contact with Preterm Infants on Parental Bio-behavioral Responses*. Paper presentation at *Eastern Nursing Research Society 26th Annual Scientific Session (ENRS)*, April 9-11, 2014, Philadelphia, PA.
- Cong, X.**, Vazquez, V., Delaney, C., McGrath, J., Chen, H., & Liang, S. (March, 2013). Nurses' Perspectives of Neonatal Pain Management: Results from U.S. and China. Paper presentation at *Eastern Nursing Research Society 25th Annual Scientific Session*, Boston, MA.
- Vazquez, V., **Cong, X.**, & Dejong, A. (March, 2013). Nurses' Perspectives of Neonatal Pain Management: Content Analysis. Poster presentation at *Eastern Nursing Research Society 25th Annual Scientific Session*, Boston, MA.
- Cong, X.**, Delaney, C., Keating, L. (March, 2012). Nurses' Perspectives and Knowledge Needs Related to Neonatal Pain. Poster presented at the *24th Annual Scientific Session, Eastern Nursing*

Research Society, New Haven, CT.

- Cong, X.**, Cusson, R., Walsh, S., Hussain, N., & Ludington-Hoe, SM, Zhang, D. (Jan. 2012) Effects of Skin-to-Skin Contact on Autonomic Pain Responses in Preterm Infants. Poster presentation at *2012 Neonatal-Perinatal Research Day - Improving the Outcomes of Infants and Mothers Through Research*, Hartford, CT.
- Cong, X.** & Ludington-Hoe, S.M. (2010). Kangaroo Care Reducing Bio-behavioral Pain Responses in Preterm Infants: A Pilot Study. Poster presented at *the 22st Annual Scientific Session, Eastern Nursing Research Society*, Providence, MA.
- Cong, X.** & Ludington-Hoe, S. (March, 2009). *Randomized Cross-Over Trial of Kangaroo Care to Reduce Heel Stick Pain in Preterm Infants*. Poster Presentation at *21st Annual Scientific Session, Eastern Nursing Research Society*, Boston, MA.
- Cong, X** (2006, April). *Kangaroo care for analgesia in preterm infants heel stick pain*. 3th Annual Research Conference, Adelphi University, Garden City, NY.
- Cong, X.** & Ludington-Hoe, S. M. (2006, March). *Kangaroo Care for analgesia in preterm infants undergoing heel stick pain: PIPP results*. Poster presentation at the 30th Annual Midwest Nursing Research Society Conference, Milwaukee, WI.
- Ludington-Hoe, S. M., **Cong, X.**, & McCain, G. (2006, March). *Randomized cross-over trial of Kangaroo Care to reduce pain measured by heart rate variability*. Paper presentation at the 30th Annual Midwest Nursing Research Society Conference, Milwaukee, WI.
- Good, M., Albert, J. M., Anderson, G. C., Wotman, S., & **Cong, X.** (2006, March). *Supplementing relaxation and music for postoperative pain*. Paper presentation at the 30th Annual Midwest Nursing Research Society Conference, Milwaukee, WI.
- Cong, X.**, & Good, M. (2005, April). *Preoperative physical activity of abdominal surgery patients*. Poster presented at Research Show CASE 2005, Case Western Reserve University, Cleveland, OH.
- Huang, S-T., **Cong, X.**, & Good, M. (2005, April). *Psychometric properties of the relaxation mastery scale*. Poster presented at Research Show CASE 2005, Case Western Reserve University, Cleveland, OH.
- Good, M., & **Cong, X.** (2005, April). *Preoperative physical activity of abdominal surgery patients*. Paper presented at the Midwest Nursing Research Society Annual Conference, Cincinnati, OH.
- Huang, S-T., **Cong, X.**, & Good, M. (2005, April). *Psychometric properties of the relaxation mastery scale*. Paper presented at the Midwest Nursing Research Society Annual Conference, Cincinnati, OH.
- Good, M., Huang, S-T., **Cong, X.**, & Seo, Y. (2004, May). *Development and psychometric properties of the postoperative activity scale*. Poster displayed at Nursing Research, 2004, University Hospitals of Cleveland, Cleveland, OH.

- Good, M., Seo, Y., **Cong, X.**, & Huang, S-T. (2004, May). *Development and psychometric properties of the opioid side effects scale for postoperative patients*. Poster displayed at Nursing Research, University Hospitals of Cleveland, Cleveland, OH.
- Cong, X.**, & Good, M. (2004, April). *Sleep patterns in postoperative patients*. Poster presented at Research Show CASE 2004, Case Western Reserve University, Cleveland, OH.
- Al-Dgheim, R., **Cong, X.**, & Good, M. (2004, April). *Relaxation and music reduce pain after abdominal surgery in older adults*. Poster presented at Research ShowCASE 2004, Case Western Reserve University, Cleveland, OH.
- Huang, S-T., **Cong, X.**, Seo, Y., & Good, M. (2004, April). *Development and psychometric properties of the postoperative activity scale*. Poster presented at Research ShowCASE 2004, Case Western Reserve University, Cleveland, OH.
- Seo, Y., **Cong, X.**, Huang, S-T., & Good, M. (2004, April). *Development and psychometric properties of the opioid side effects scale for postoperative patients*. Poster presented at Research ShowCASE 2004, Case Western Reserve University, Cleveland, OH.
- Cong, X.**, & Good, M. (2004, February). *Sleep patterns in postoperative patients*. Paper presented at Midwest Nursing Research Society 28th Annual Research Conference, St. Louis, MO.
- Al-Dgheim, R., **Cong, X.**, & Good, M. (2004, February). *Relaxation and music reduce pain after abdominal surgery in older adults*. Paper presented at Midwest Nursing Research Society 28th Annual Research Conference, St. Louis, MO.
- Huang, S-T., **Cong, X.**, Seo, Y., & Good, M. (2004, February). *Development and psychometric properties of the postoperative activity scale*. Paper presented at Midwest Nursing Research Society 28th Annual Research Conference, St. Louis, MO.
- Seo, Y., **Cong, X.**, Huang, S-T., & Good, M. (2004, February). *Development and psychometric properties of the opioid side effects scale for postoperative patients*. Paper presented at Midwest Nursing Research Society 28th Annual Research Conference, St. Louis, MO.
- Cong, X.**, Good, M., Wotman, S., Anderson, G. C., & Ahn, S. (2003, April). *Obtaining saliva specimens after major surgery*. Poster presented at the Midwest Nursing Research Society, Grand Rapids, MI.
- Cong, X** & Ludington, S. (2001, March). *Research on Kangaroo Care*. Paper presented at Ph.D. Student Conference, Baltimore, MD.
- Cong, X.** (2000, October). *Neonatal pain assessment during venipuncture and nurses' perception of neonatal pain.*, Paper and poster presented at Sigma Theta Tau International Inc. Pi Chapter Annual Conference, Implementing Research in Practice Setting, Linthicum Heights, MD.

PROFESSIONAL SERVICE (recent 10 years)

A. Expert Consultant Activities

- 2017- Ongoing: Consultant of National Kangaroo Care and Nursing Initiation Program, China.
Service: This program was established to initiate and establish KC practice in China, including development of national clinical practice guidelines, making policy changes of NICU practice, and guiding and development of KC research programs in China. As consultant, I provide full range support for KC evidence-based practice, literatures, research designs, policies, guidelines and procedures, which has led to the development of the first national KC guideline in China. In addition, I have participated in a collaborative writing project, provided consultation and completed new book chapters regarding to principles and guides for feeding and nursing care including KC practice in preterm infants.
- 2017- Ongoing: Kangaroo Care and Oxytocin Study (Dr. Helen Brotherton Doctoral researcher at London School of Hygiene and Tropical Medicine & MRC Unit, The Gambia, Honorary Consultant Paediatrician, Royal Hospital for Sick Children, Edinburgh).
Service: I provide support regarding bio-behavioral measurements of KC effects in preterm infants, including oxytocin mechanism involved in KC intervention.
- 2016 - Ongoing: International Kangaroo Mother Care study funded by The Bill and Melinda Gates Foundation (Team iKMC; PIs: Nils Bergman & Barak Morgan).
Service: I was selected as a consultant on this study due to my expertise in KC. I provide support for bio-behavioral measurements of KC effects in preterm infants, including measures of cortisol levels, heart rate variability, gut microbiome, neurodevelopment, and oxytocin mechanism involved in KC intervention. Through my strong collaborations, especially with Drs. Bergman (South Africa) and Westrup (Sweden) and Kangaroo Care Acceleration Alliance of United States Agency for International Development (USAID), I contribute my knowledge and expertise of KC to global maternal-infant health care.
- 2016 - Ongoing: Visiting Scholar of Beijing Obstetrics & Gynecology Hospital of Capital Medical University School of Nursing, Beijing, China
Service: Provide support for nursing research, evidence-based practice, grant application, manuscript preparation, and staff training.
- 2015 – Ongoing: Visiting Scholar of Peking University School of Nursing, Beijing, China
Service: During each of my summer vacation in Beijing, I provide consultation and support for nursing research and evidence-based practice, nursing education, and mentoring faculty and students. My work includes: 1) holding seminars of new knowledge in biobehavioral and multi-omic nursing research; 2) providing advisement for doctoral students' research programs; 3) mentoring nursing faculty and facilitating faculty and student exchange program between University of Connecticut and Peking University; 4) providing consultation for development and making changes of clinical practice guidelines in maternal-child care; and 5) providing consultation for setting up the new Biobehavioral Nursing Research Center at Peking University School of Nursing.
- 2015: Instrument development – “Medical and Nursing students’ Knowledge and Attitudes about Patient Safety” Shanxi Medical University School of Nursing, Taiyuan, China. (Prof. Shang, Linping and PhD student: Wang, Bing.)
Service: Provide support for instrument development and validation in nursing education in China.
- 2014 - Ongoing: Initiation of KC programs in Beijing, China. Education and training of KC practice and breastfeeding promotion at Beijing Obstetrics & Gynecology Hospital of Capital Medical University and the Third Teaching Hospital of Peking University Medical Center, Beijing, China.

Service: During each of my summer vacation in Beijing, I provide education and training of KC and breastfeeding to the nurses, physicians, faculty and students in the neonatal intensive care units (NICUs) and postpartum units at the Beijing Obstetrics & Gynecology Hospital of Capital Medical University and Peking University Medical Center. The work has included: 1) Seminars of KC knowledge, mechanisms, research and evidence-based practice; 2) Training sessions of KC procedures, clinical practice protocols and guidelines; 3) Guiding the development of clinical protocol and guidelines of KC in Chinese; 4) Hands-on experience and practice of KC in the NICUs, including order of appropriate KC chairs, enhancing the environment within the NICUs, support of mothers in the NICU, and promoting breastfeeding and reducing stress with KC practice; 5) Building up a research team including nurses and neonatologist in the NICUs and providing support for KC research, including research design, grant application, and manuscript preparation. Two research studies of KC effects on preterm infants' biobehavioral responses and breastfeeding outcomes have funded by the Beijing Obstetrics & Gynecology Hospital and the Capital Medical University. One manuscript of breastfeeding outcomes in Chinese preterm infants has been submitted to the Journal of Human Lactation and under revision. My program has promoted practice and policy changes regarding maternal-infant contact in the NICU and established KC practice in the NICUs at Beijing, China.

2014-2015: Instrument translation and back translation of Cong's Questionnaire – "Nurses' knowledge and attitude about pain assessment and management in the neonatal intensive care unit." PhD student, Nasrin Mehrnoush, Nursing in Shahid Beheshti University of Medical Sciences in Tehran, Iran.
Service: Provide support for instrument translation and utilization in Iran.

2012- 2016: Consultant, "Preventive Intervention for Rising Intraocular Pressure during Steep Trendelenburg Position Surgery." Bonnie Molloy, chief CRNA, Quality/Risk Mgr and Research Director in Bridgeport Hospital.
Service: Provide consultation and support for grant preparation, quantitative study design and data management and analysis, and manuscript preparation and submission.

2009: Review Panel for "Senior baccalaureate nursing student's preparation in pain management and cultural pain management" (Adelphi University School of Nursing) as an expert to establish content validity.
Service: Provide support for the development of an instrument regarding to pain management in nursing education.

B. Peer Review Panels

2018-ongoing: Grant Reviewer: NIH-NINR grant review panel (NRRC – have been invited to serve on the standing review panel starting in Oct. 2018).

2017: Grant Reviewer: Canada Foundation for Innovation – Microbiome expert review panel

2017: Grant Reviewer: UConn Microbiome Seed Grants – grant review panel

2015-ongoing: Grant Reviewer: UConn Research Excellence Program – Lead of review panel

2015-ongoing: Grant Reviewer: Health Resources and Services Administration (HRSA) Maternal and Child Health Research - grant review panel

- 2015-ongoing: Grant Reviewer: National Association of Neonatal Nurses (NANN) Research grant
- 2015: Grant Reviewer: NIH Children's Environmental Health & Disease Prevention Research Centers (P50) - grant review panel
- 2013-ongoing: Grant Reviewer: American Nurses Foundation (ANF) Nursing Research Grant
- 2012-ongoing: Abstract reviewer: ENRS annual scientific conference
- 2010-ongoing: Grant reviewer: STTI Mu Chapter Research grant
- 2010-ongoing: Abstract reviewer: The Council for the Advancement of Nursing Science (CANS) State of the Science Congress on Nursing Research
- 2009-ongoing: Abstract reviewer: Sigma Theta Tau Annual Connecticut Research Conference

C. Journal Reviewer/Editorial Boards

- 2017-ongoing: Journal of Human Lactation; Nursing Research, Microbiome
- 2015-ongoing: Editorial board member: Neonatal Network
- 2012-ongoing: Reviewer: Pediatrics
- 2012-ongoing: Reviewer: International Journal of Nursing Studies
- 2012-ongoing: Reviewer: Acta Paediatrica
- 2011-ongoing: Reviewer: Italian Journal of Pediatrics
- 2009-ongoing: Reviewer: American Journal of Perinatology
- 2009-ongoing: Reviewer: Early Human Development
- 2008-ongoing: Charter Reviewer: Biological Research for Nursing
- 2008-ongoing: Charter Reviewer: Research in Nursing and Health

D. Service to the Nursing Society and Memberships

- 2017- ongoing: Co-Chair, Research Committee, National Association of Kangaroo Care and Nursing, China Association of Maternal and Child Health
- 2015 – ongoing: National Association of Neonatal Nurses (NANN) - Small Grants Committee
National Association of Neonatal Nurses (NANN) - Research Institute Steering Council
- 2013–ongoing: American Nurses Foundation (ANF) Nursing Research Grant Reviewer Committee

member

2012 – ongoing: ENRS Nominating Committee member

2010 – ongoing: STTI Mu Chapter Research Committee Chair

2012 – ongoing: American Nurses Association (ANA) member

2010 – ongoing: National Association of Neonatal Nurses (NANN) member

2010 - ongoing The Council for the Advancement of Nursing Science (CANS) member

2008 – ongoing: Eastern Nursing Research Society (ENRS) member

2000 - 2006: Western Nursing Research Society (WNRS) member

2000 – ongoing: Sigma Theta Tau International (STTI) member

E. Service to the University

2015 – now: UConn SON Promotion, Tenure, Reappointment (PTR) committee member, Chair

2015 – 2018: UConn SON Merit Committee member

2014 – 2015: UConn Research Compliance Advisory Group and IRB subcommittee member

2013 – now: UConn Research Advisory Council (RAC) member

2013 – 2015: UConn fMRI Schematic Design Kickoff committee member

2013 - now: UConn Academic Visioning Committee member

2012 - now: UConn New Institute of Genetics/Genomics Committee member

2012 - 2013: UConn Course and Curriculum Council, committee member

2011 - 2013: Provost's Commission on Institutional Diversity, committee member

2012 - 2013: SON Course and Curriculum Committee Co-Chair

2008 - 2010: Graduate Curriculum and Pre-licensure Curriculum Committee Member, SON

2009 - 2010: Doctoral Curriculum Task Force Committee Member, UCONN School of Nursing

2009: Sigma Theta Tau 15th Annual CT Collaborative Research Conference Abst Rev Comm Member

2008 - 2009: School of Nursing Commencement Committee Member

2007 - 2008: Research Council, Adelphi University School of Nursing, Chair

DISSERTATION AND THESIS SUPERVISION

A. Doctoral Students

2018-present: PhD student: Alfred Kiza

Role: Major advisor

2017-present: PhD student: Jie Chen

Role: Major advisor

2016-present: PhD student: Alice Anderson

Role: Associate advisor

2016-present: PhD student: Sharon Casavant

Role: Associate advisor

2016-present: PhD student: Zahra A. Barandouzi

Role: Major advisor

2015-present: DNP Student: Patricia Mason

Role: Associate advisor

2013-2018: PhD Student: Wanli Xu

Role: Major advisor

2011-2015: PhD Student: Victoria Vazquez

Role: Major advisor

2013-2016: PhD student: Cynthia French

Role: Major advisor

2013-2016: PhD student: Dorothy Vittner	Role: Associate advisor
2013-2016: PhD Student: Ana Diallo	Role: Associate advisor
2014-2016: PhD student: Amy D'Agata	Role: Associate advisor
2011- 2014: PhD student: Carrie-Ellen Briere	Role: Associate advisor
2011-2014: PhD student: Heather Morrison	Role: Associate advisor
2013-2014: PhD student: John Fedo (Graduated in May, 2014)	Role: Reviewer
2012 -2014: DNP student: Petronella Stoltz (Graduated in May, 2014)	Role: Associate advisor
2010-2013: DNP Student: Craig Smith (Graduated in May, 2013)	Role: Associate advisor
2011-2012: PhD student: Pamela M. Meharry (Graduated in May, 2012)	Role: Associate advisor
2009-2011: PhD student: Elaine Martin (Graduated in May, 2011)	Role: Reviewer
2009-2011: PhD Student: Desiree A. Diaz (Graduated in May, 2010)	Role: Reviewer
2009-2010: PhD Student: Sandra Roosa (Graduated in May, 2010)	Role: Reviewer
2009: DNP Student: Linda Cook (Graduated in May, 2009)	Role: Reviewer
2008: PhD Student: Diane Merkle (Graduated in May, 2009)	Role: Reviewer

B. Masters Students (Adelphi University)

2007: Masters Student: Ani Varughese	Role: Major Advisor
2007: Masters Student: Jaimy John	Role: Major Advisor

C. Undergraduate Honors Program Students (Undergraduate Research Grants listed)

2018-present: Rachel DiNatalie and Lindsey Berube (ECSU Health Life Science honors student)	Role: Co-Major advisor
2018-present: Margaret Fitzpatrick	Role: Major advisor
2017-present: Arianna D'Agosto	Role: Major advisor
2017-present: Anna Cerulli	Role: Major advisor
2017-present: Zewen Tan (MCB, Pre-Med)	Role: Major advisor
2016-present: Sarah Squillace	Role: Major advisor
2016-present: Tessa Weidig	Role: Major advisor (SHARE grant; IDEA grant)
2016-present: Amberly Lao	Role: Major advisor (IDEA grant)
2016-present: Rubina Bhura (MCB major)	Role: Co-Major advisor
2016-present: Courtney Lopiano	Role: Major advisor (IDEA grant)
2016-present: Woodlyn Joachim (MCB major, study-work student)	
2015-2017: Dhvani Patel (neuroscience major)	Role: co- Major advisor
2015-2017: Naomi Scatliffe (MCB major)	Role: co-major advisor
2015-2017: Rachael Romisher	Role: major advisor
2015-2017: Samantha Poveda	Role: major advisor (SHARE grant)
2014- 2016: Shaina Forte	Role: Major advisor (University Scholar; SURF grant)
2013- 2015: Stephanie Demaio	Role: Co-Major advisor (President Award)
2013- 2015: Jessica Demaio	Role: Co-Major advisor (President Award)
2013- 2015: Taylor Meegan	Role: Major advisor (SURF grant)
2013- 2016: Kelsey Richardson	Role: Major advisor (SHARE grant)
2012- 2015: Angela DeJong	Role: Major advisor
2012-2013: Sharon Casavant	Role: Major advisor
2011-2013: Kimberly Chang	Role: Major advisor
2011-2013: Laura Keating	Role: Major advisor (SURF grant)
2010-2011: Brenna Czudak	Role: Major Advisor

2010-2011: Mallory Perry
 2009-2011: Mariliam Padilla

Role: Major Advisor
 Role: Major Advisor

TEACHING EXPERIENCE

A. University of Connecticut, School of Nursing

Pre-licensure	Nursing Research (MBeIN: N5030), Instructor
Undergraduate	End of Life: a Multicultural Experience (N1175W) - Buddhist Traditions, Chinese culture of Death and Dying, Guest Lecturer,
Graduate	Neonatal Embryology and Physiology (N5350), Instructor Statistical Methods in Nursing (N5020), Instructor Nursing Research (N5030), Instructor
Doctoral	Quantitative Research Design and Statistics I (N6115, PhD level), Instructor Quantitative Research Design and Statistics II (N6145, PhD Level), Instructor Evidence Based Practice and Scholarship (N5855, DNP level), Instructor Special Topics of Research Methods – Meta-Analysis (N6000), Co-Instructor Special Topics of Research Methods – Research methods in pain assessment and analysis throughout the lifespan (N6000), Co-Instructor Multivariate Statistics (N5098), Instructor

B. Adelphi University School of Nursing

Undergraduate	Nursing Research
Graduate	Seminar in Nursing Research and Utilization; Evidence Based Practice Nursing Nursing Theory Master thesis: 3 per semester
Doctoral	Quantitative Research Method and Analysis

C. Case Western Reserve University Frances Payne Bolton School of Nursing

Undergraduate	Basic Nursing Skills and Health Assessment in the Clinical and Lab
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D. Peking University (Beijing Medical University) School of Nursing

Undergraduate	Pediatric Nursing; Basic Concepts & Theories in Nursing; Nursing Education
Continuing Ed.	Health Education; Health assessment; Fundamental Nursing Pediatric Nursing; Curriculum Development of Nursing Education; Nursing
Graduate	Research Methods and Data Management
National Nursing Workshops	Educational principles & methods in clinical nursing education; Application nursing process & critical thinking in nursing practice, Developing measurements & instruments in nursing research, Nursing Diagnosis & nursing process in practice.