

CURRICULUM VITAE

JANEAN ERICKSON HOLDEN, PhD, RN, FAAN

WORK ADDRESS

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CERTIFICATION:

Registered Nurse	State of Illinois	1996-present
Registered Nurse	State of Michigan	1985-present
Registered Nurse	State of Utah	1974-present

ACADEMIC AND PROFESSIONAL PREPARATION:

INSTITUTION	DATES	DEGREE
The University of Illinois at Chicago	1993-1996	Post-doctoral Fellowship Pharmacology
The University of Michigan, Ann Arbor	1987-1993	PhD, Nursing
The University of Michigan, Ann Arbor	1985-1987	MS, Med-Surg Nursing
Weber State College, Ogden, UT	1980-1982	Secondary Education Teacher's Certification
The University of Utah	1970-1974	BSN (Magna Cum Laude)

PROFESSIONAL EXPERIENCE:

2016-17	Adjunct Professor	Hariri School of Nursing, American University of Beirut
2014-	Associate Dean for Research	University of Michigan School of Nursing, Ann Arbor, MI
2012-	Professor	University of Michigan School of Nursing, Ann Arbor, MI
2009-2012	Associate Professor	University of Michigan School of Nursing, Ann Arbor, MI
2008	Associate Research Professor	University of Michigan School of Nursing, Ann Arbor, MI
2002-2008	Associate Professor with Tenure	University of Illinois at Chicago, Medical-Surgical Nursing
1996-2002	Assistant Professor	University of Illinois at Chicago, Medical-Surgical Nursing
1993-1996	Post-doctoral Fellow (NIH funded grant)	University of Illinois at Chicago, Department of Pharmacology
1990-1991	Graduate Student Research Assistant for Dr. Barbara Therrien	University of Michigan School of Nursing, Ann Arbor, MI

1989-1990	Visiting Nurse, Visiting Care Association	Ann Arbor, MI
1988-1990	Graduate Student Research Assistant for Dr. Robert M. Bradley	University of Michigan, Department of Biologic and Material Sciences, Ann Arbor, MI
1980-1985	Secondary Education Teacher, Monticello High School	San Juan School District, Monticello, UT
1980-1982	Charge Nurse	San Juan Hospital, Monticello, UT
1978-1980	Associate Director and Instructor, LPN Programs	College of Eastern Utah
1976-1978	Charge Nurse, Infection Control; Inservice Director	San Juan Hospital, Monticello, UT
1974-1976	District Nurse, Salt Lake Community Nursing Service	Salt Lake City, UT

PROFESSIONAL EXPERIENCE: RESEARCH

Current Research	
2017-2018	“Alpha-adrenergic Modulation of Oxaliplatin-Induced Hyperalgesia”. MICHR Translational Research Grant. The University of Michigan. \$50,000.
2017-2018	“Alpha-adrenergic Modulation of Oxaliplatin-Induced Hyperalgesia”. Janet Gatherer Boyles Pilot Study. The University of Michigan School of Nursing,, \$23,313.
2017-2018	“Alpha-adrenergic Modulation of Oxaliplatin-Induced Hyperalgesia”. MICHR Translational Science Grant. \$50,176
2012-2017	“Posterior Hypothalamic Modulation of Pain,” NIH, NINR, 1R01 NR013861 \$2,368,414. Role: PI.
Proposals Submitted	
2015	“Virtual Anatomical Dissection for Transforming the Learning of Human Anatomy,” Educational grant from The University of Michigan, Transforming Learning in the Third Century, \$100,685. Role: Advisor on evaluation of project. Funded
2012	“University of Michigan School of Nursing Center for Excellence in Pain Science” P30 proposal submitted, NIH, NINR, \$2,400,000. Proposal not funded. Role: Co-PI.
2011	“Nervous System Mechanisms of Painful Chemotherapy-induced Peripheral Neuropathy,” R01 proposal (Ellen Smith, PI), NIH, NCI, \$2,775,868. Proposal not funded. Role: Co-investigator
2010	“Cognition and Effective Functioning,” T32 proposal (Karen Stein, PI), NIH, NINR, \$2,072,113. Proposal not funded. Role: Co-director
2009	“Posterior Hypothalamic Modulation of Neuropathic Pain in Aging Rats,” RC1 proposal, NIH, NINR, \$951,841. Proposal not funded. Role: Principal Investigator
Completed Research	
2014-2015	“The Effects of Oral Prazosin on Alpha1 Adrenoceptor-mediated Pain Facilitation,” Janet Gatherer Boyles Pilot Study, The University of Michigan School of Nursing, \$14,000. Role: PI.
2008-2013	“Forebrain Modulation of Neuropathic Pain,” NIH, NINR, 2R01 NR004778, \$1,354,448. Role: PI

2009-2011	"Hypothalamic Modulation of Chemotherapy-Induced Neuropathic Pain. Neuroscience Nurses Foundation Integra Grant, \$10,000. Role: PI
1999-2009	"Training in Biobehavioral Nursing Research," The University of Illinois at Chicago, T32 NR07075 06-15. Role: PI (20% effort)
2006	"The Role of the Hypothalamus in Chemotherapy-induced Neuropathy," College of Nursing Dean's Fund, The University of Illinois at Chicago, \$10,000. Role: PI
2005	"The Posterior Hypothalamus and the Modulation of Nociception," American Nurses Foundation / Midwest Nursing Research Society Research Grant, \$5,000. Role: Co-I with Younhee Jeong
2005	"Forebrain Modulation of Neuropathic Pain," College of Nursing Dean's Fund, The University of Illinois at Chicago, \$10,000. Role: PI
2001	"Central Control of Chronic Pain," College of Nursing Dean's Fund, The University of Illinois at Chicago, \$5,000. Role: PI
1999-2005	"The Neurobiology of Hypothalamic Pain Modulation," NIH, NINR, R01 NR04778, \$1,427,548. Role: PI
2000-2002	"Minority Initiative Research Grant, Careers II," R256 M056777 (years 3 and 4), \$253,879. Role: PI
1997-1998	"Lateral Hypothalamic Pain Modulation," Campus Research Board, The University of Illinois at Chicago, \$11,101. Role: PI
1996	"Hypothalamic Modulation of Pain," College of Nursing Dean's Fund, The University of Illinois at Chicago, \$4,983. Role: PI
1990-1991	"Cue Use and Disorientation Following Hippocampal Damage," Burroughs-Wellcome Fund Scholar, American Nurses Foundation, \$2,500. Role: PI
1990-1991	"The Effect of Preoperative Training on Visual Cue Use Following Hippocampal Damage," Sigma Theta Tau International, \$3,000. Role: PI
1990	Margaret Dow Towsley Scholar, Center for the Education of Women, The University of Michigan, \$2,700. Role: PI
1989-1992	"Disorientation and Environmental Cue Use in Rats," National Research Service Award (predoctoral), NIH, NCNR. Role: PI
1987-1989	Institutional National Research Service Award (pre-doctoral), The University of Michigan. Role: PI
1990-1993	Doctoral dissertation: "The Effect of Preoperative Familiarity on Single Cue Use Following Hippocampal Damage." Barbara Therrien, PhD, RN, Advisor, The University of Michigan.
1987	Master's thesis: "The Effect of Hippocampal Damage on Adaptation to Novelty." Barbara Therrien, PhD, RN, Advisor, The University of Michigan.

TEACHING RESEARCH

Current Research	
2014-2016	Rackham Global Engagement for Doctoral Education, The University of Michigan, \$60,791. Role: PI.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

International Association for the Study of Pain	Midwest Nursing Research Society
Society for Neuroscience	American Pain Society
Council for the Advancement of Nursing Science	American Nurses Association

American Academy of Nursing

AWARDS AND HONORS:

2016-	The Barbara A. Therrien Collegiate Professor Of Nursing
2015-2016	CIC Academic Leadership Program Fellow
2010	Noted from Biomed Libraries as having three of the top ten articles published in "Who is Publishing in My Domain?"
2009	Inducted into the American Academy of Nursing
2009	Senior Scientist Recognition Award, Midwest Nursing Research Society
2008	Ehrlich II World Wide Conference On Magic Bullets; invited to compete for Ehrlich Prize
2006	Distinguished Investigator Award, Physiological Phenomena Section, Midwest Nursing Research Society
2005-2008	Fellow of the Honors College, University of Illinois at Chicago
2004	Keynote Address, University of Michigan School of Nursing Graduation
2001	Rae M. Huegli Memorial Lecture, Valparaiso University. Invited
2001	Harriet Werley New Investigator Award, Midwest Nursing Research Society
2001	Outstanding Alumni Award, University of Michigan School of Nursing
2000	Golden Apple Award for Excellence in Undergraduate Teaching
2000	Inducted into the UIC College of Nursing Academy of Distinguished Teachers
2000	Presidential Early Career Award for Scientists and Engineers: Presented at the White House, 4/12/00.
1987	Sigma Theta Tau, Honor Society for Nursing
1984	National Precision Teaching Award for Excellence in Education
1974	Phi Kappa Phi Honor Society

PUBLICATIONS: (* = DATA-BASED)

- *Stapleton SJ, **Holden JE**, Wang E, Epstein J, & Wilkie DJ (2016). Symptom clusters in patients with cancer in the hospice/palliative care setting. Supportive Care in Cancer.
- *Wagner MA, Jeong Y, Banerjee T, Yang J, & **Holden JE** (2016). Sex differences in hypothalamic-mediated tonic norepinephrine release for thermal hyperalgesia in rats. Neuroscience, 324:420-9. PMID: 27001177.
- *Wardach J, Wagner M, Jeong Y, & **Holden JE** (2016). Lateral hypothalamic stimulation reduces thermal hyperalgesia through spinally descending orexin-A neurons in neuropathic pain. Western Journal of Nursing Research 38:292-307. PMID:26475681.
- *Stapleton SJ, Wilkie DJ, **Holden JE**, & Epstein J (2015). A systematic review of the symptom distress scale in advanced cancer studies. Cancer Nursing, In press.
- ***Holden JE**, Wang E, Moes JR, Wagner M, Maduko A, & Jeong Y (2014). Differences in carbachol dose, pain condition and sex following lateral hypothalamic stimulation. Neuroscience, 270:226-35. PMID:24759771
- *Moes JR, & **Holden JE** (2014). Characterizing activity and muscle atrophy changes in rats with neuropathic pain: A pilot study. Biological Research for Nursing. 16:16-22. PMID:24057222
- *Jeong Y, Moes JR, Wagner M & **Holden JE** (2012). The posterior hypothalamus exerts opposing effects on nociception via the A7 catecholamine cell group in rat. Neuroscience, 227:144-153. PMC3932022

- *Ngamkham S, Vincent C, Finnegan L, **Holden JE**, Wang ZJ, & Wilkie DJ (2012). The McGill Pain Questionnaire as a multidimensional measure in people with cancer: An integrative review. Pain Management Nursing, 13(1), 27-51. PMC3285427
- Holden JE** (2011). Putting the bio in biobehavioral research: Animal models. Western Journal of Nursing Research, 33(8):1017-1029. PMID:21454886.
- *Ngamkham S, **Holden JE**, & Wilkie DJ (2011). Differences in pain location, intensity and quality by pain pattern in outpatients with cancer. Cancer Nursing: An International Journal for Cancer Care, 34(3):228-237. PMC3703616
- *Prasertsri N, **Holden JE**, Keefe FJ, & Wilkie DJ (2010). Repressive coping style: Relationships with pain, pain coping strategies, and depression in lung outpatient cancer patients. Lung Cancer, 71(2):235. PMC2980802
- Holden JE** (2009). Basic science is not nursing research? If it isn't, what is? Western Journal of Nursing Research, 31(7):815-817. PMID:19858522.
- ***Holden JE**, Pizzi JA, Jeong Y (2009). An NK1 receptor antagonist microinjected into the periaqueductal gray blocks lateral hypothalamic-induced antinociception in rats. Neuroscience Letters, 453:115-119. PMC3463133
- *Jeong Y, & **Holden JE** (2009). Lateral hypothalamus-induced alpha-adrenoceptor mediated nociceptive modulation acts on c-fibers in rat. Biological Research for Nursing, 10(4):331-339. PMID:19114413.
- *Jeong Y, & **Holden JE** (2009). The role of spinal orexin-1 receptors in posterior hypothalamic modulation of neuropathic pain. Neuroscience, 159:1414-1421. PMC3463132
- Jeong Y, & **Holden JE** (2008). Commonly used preclinical models of pain. Western Journal of Nursing Research, 30:350-364. PMID:18029542.
- ***Holden JE**, & Pizzi JA (2008). Lateral hypothalamic-induced antinociception is mediated by a substance P connection with the rostral ventromedial medulla. Brain Research, 1214:40-49. PMID2483309
- ***Holden JE**, Naleway E, & Jeong Y (2005). Stimulation of the lateral hypothalamus produces antinociception mediated by 5-HT_{1A}, 5-HT_{1B} and 5-HT₃ receptors in the rat spinal cord dorsal horn. Neuroscience, 135:1255-1268. PMID:16165284.
- Holden JE**, Jeong Y, & Forrest J (2005). The endogenous opioid system and clinical pain management. AACN Clinical Issues, 16:291-301. PMID:16082232.
- Holden JE**, & Pizzi JA (2003). The challenge of chronic pain. Advanced Drug Delivery Reviews, 55:935-948. PMID:12935938.
- ***Holden JE**, Van Poppel AY, & Thomas S (2002). Antinociception from lateral hypothalamic stimulation is mediated by NK1 receptors in the A7 catecholamine cell group in the rat. Brain Research, 953:195-204. PMID:12384253.
- ***Holden JE** & Naleway E (2001). Microinjection of carbachol in the lateral hypothalamus produces opposing effects on nociception mediated by α_1 - and α_2 -adrenoceptors. Brain Research, 911:27-36. PMID:11489441.
- McCull PP, **Holden JE**, & Buschmann MB (2001). Pain management: An assessment of surgical nurses' knowledge. Medsurg Nursing, 10:185-191.
- ***Holden JE**, & Therrien B (2000). The effect of familiarity on distraction and single cue use after hippocampal damage. Biological Research for Nursing, 1:165-178. PMID:11232212.
- ***Holden JE**, Schwartz E & Proudfit HK (1999) Microinjection of morphine in the A7 catecholamine cell group produces opposing effects on nociception that are mediated by alpha₁ and alpha₂ adrenoceptors. Neuroscience, 91:979-990. PMID:10391476.
- ***Holden JE**, & Proudfit HK (1998). Enkephalin neurons that project to the A7 catecholamine group are located in nuclei that modulate nociception: Ventromedial medulla. Neuroscience, 83:929-947. PMID:9483575.

Holden JE (1996). Physiological research is nursing research. Nursing Research, 45:312-313. PMID:8831660.

***Holden JE**, & Therrien B (1993). Cue familiarity reduces spatial disorientation following hippocampal damage. Nursing Research, 42:338-343. PMID:8247816.

***Holden JE**, & Therrien B (1989). The effect of hippocampal damage on adaptation to novelty in rats. Journal of Neuroscience Nursing, 21:38-41. PMID:2523439.

Holden JE (1985). Don't just tell your patients—teach them. RN Magazine, 7:28-31. PMID:3848084

Holden JE (1983). Precision teaching and behavior change. Special Educator, 3:1-2.

Holden JE (1982). Losing grip on my neurosis—or how precision teaching changed my life. Journal of Precision Teaching, 3:40-42.

Holden JE (1982). Cross-aged tutoring using Special Ed. kids. Special Educator, 4:3-4.

MANUSCRIPTS IN PREPARATION:

Holden JE, Jeong Y, & Wagner M. The hypothalamus and pain modulation.

Jeong Y, Wagner MA, Yang J, Banergee T & **Holden JE**. Sex and pain-type differences in lateral hypothalamic-induced alpha-adrenergic nociceptive modulation. To be submitted to International Journal of Neuroscience.

BOOK CHAPTERS:

Holden JE. Biological science: Getting at the cause to promote the cure. In Ketefian S (Ed), Shaping Nursing Science and Improving Health: The Michigan Legacy. AnnArbor: Maize Books. In press.

Holden JE, & Pizzi JA. Pain. In Clinical Pathophysiology: Common Health Problems & Risk Factors. Chapter 45. In press.

Wink D, Fetzer S, Kuehn JE, Haney W, Regalbuto J, France D, Lussenhop J, **Holden JE**, Radtke A, Woodbury C, Fitzloff J, Zavits D, & Stahelin R. (1999). Working With Chemistry: Inquiry Based General Chemistry Laboratory, 1st ed. New York: WH Freeman & Co.

PUBLISHED ABSTRACTS:

Wagner MA, & **Holden JE** (2015). The effect of cobalt chloride on lateral hypothalamic-induced pain modulation in male and female hyperalgesic rats. Society for Neuroscience Abstracts.

Mantha BN, Wagner MA, Banerjee T, & **Holden JE** (2015). Sex differences in the lateral hypothalamus-induced descending noradrenergic system in nociception and hyperalgesia pain types. Society for Neuroscience Abstracts.

Wagner MA, Kuhnke S, & **Holden JE** (2014). Tonic release of norepinephrine contributes to thermal hyperalgesia following chronic constriction injury in male and female rats. International Association for the Study of Pain.

Wagner MA, Kuhnke S, & **Holden JE** (2013). Tonic activation of the descending alpha-adrenergic system contributes to hyperalgesia following chronic constriction injury in male and female rats. Society for Neuroscience Abstracts, 39.

Wagner MA, Kuhnke S, & **Holden JE** (2012). Differences in dose, sex, and pain type. International Association for the Study of Pain.

Moes JR, & **Holden JE** (2011). Effects of neuropathic pain on insulin resistance. Society for Neuroscience Abstracts, 37.

Moes JR, Kuhnke S, & **Holden JE** (2010). Hypothalamic-induced antinociception in hyperalgesia: Possible sex differences. International Association for the Study of Pain.

Prasertsri N, Finnegan L, Vincent C, **Holden JE**, Keefe FJ, & Wilkie DJ (2010). Pain control behaviors in lung cancer outpatients. International Association for the Study of Pain.

Holden JE, & Jeong Y (2008). The effect of posterior hypothalamic stimulation on Taxol-induced neuropathic pain. International Association for the Study of Pain.

- Jeong Y, & **Holden JE** (2006). The role of orexin-1 receptors in posterior hypothalamic-induced antinociception. Society for Neuroscience Abstracts, 32.
- Jeong Y, & **Holden JE** (2005). The posterior hypothalamus modulates nociception via alpha adrenoceptors in the spinal cord dorsal horn. Society for Neuroscience Abstracts, 31.
- Pizzi JA, & **Holden JE** (2004). The periaqueductal gray mediates lateral hypothalamic-induced antinociception. Society for Neuroscience Abstracts, 30.
- Jeong Y, Pizzi JA, & **Holden JE** (2004). Stimulation of the lateral hypothalamus produces antinociception in inflammatory and neuropathic pain. Society for Neuroscience Abstracts, 30.
- Jeong Y, & **Holden JE** (2003). C-fibers mediate lateral hypothalamus-induced nociceptive modulation through the alpha-adrenoceptors. Society for Neuroscience Abstracts, 29.
- Pizzi JA, & **Holden JE** (2003). Lateral hypothalamic induced antinociception is mediated by a substance P connection with spinally projecting neurons in the ventromedial medulla. Society for Neuroscience Abstracts, 29.
- Holden JE**, & Naleway E (2002). Stimulation of the lateral hypothalamic produces antinociception mediated by serotonin receptors in the spinal cord dorsal horn. Society for Neuroscience Abstracts, 28.
- Holden JE**, Van Poppel AY, & Thomas S (2001). Antinociception from lateral hypothalamic stimulation is blocked by an NK-1 receptor antagonist in the A7 catecholamine cell group. Society for Neuroscience Abstracts, 27.
- Heidenreich B, & **Holden JE** (2000). Neurotensin-immunoreactive neurons in the lateral hypothalamus project to the A7 catecholamine cell group and may play a role in antinociception. Society for Neuroscience Abstracts, 26:655.
- Holden JE**, Naleway E, & Van Poppel A (2000). Stimulation of the lateral hypothalamus produces antinociception mediated by the A7 catecholamine cell group. Society for Neuroscience Abstracts, 26:661.
- Holden JE** (1999). Lateral hypothalamic projections to the A7 catecholamine cell group: A possible role in antinociception. Society for Neuroscience Abstracts, 25.
- Holden JE**, & Proudfit HK (1998). Microinjection of morphine near the A7 catecholamine cell group produces opposing effects that are mediated by different alpha adrenoceptors in the spinal cord. Society for Neuroscience Abstracts, 24.
- Holden JE**, & Proudfit HK (1997). Hyperalgesia produced by morphine microinjection in the A7 region is mediated by alpha-1 adrenoceptors in the spinal cord dorsal horn. Society for Neuroscience Abstracts, 23.
- Holden JE**, & Proudfit HK (1996). Microinjection of morphine in the A7 catecholamine cell group produces hyperalgesia. Society for Neuroscience Abstracts, 22.
- Holden JE**, & Proudfit HK (1995). Projection of met-Enkephalin neurons to noradrenergic neurons in the dorsolateral Pontine tegmentum: A possible role in modulating nociception. Society For Neuroscience Abstracts, 21.
- Holden JE**, & Proudfit HK (1994). Projection of substance P and met-Enkephalin neurons to the dorsolateral pontine tegmentum: A possible role in nociception. Society For Neuroscience Abstracts, 20.
- Therrien B, **Holden JE**, & Hebda-Bauer E (1993). Effects of a cue and distracter on spatial learning after hippocampal damage: Gender differences. Society For Neuroscience Abstracts, 19.
- Holden JE**, & Therrien B (1992). Cue familiarity reduces spatial disorientation following hippocampal damage. Society For Neuroscience Abstracts, 18.
- Holden JE**, Cimprich B, Metzger BL, & Therrien B (1990). Hypertension and body position affect carotid artery blood flow velocity during the Valsalva maneuver. Society For Neuroscience Abstracts, 16.

PAPERS OR WORKSHOPS PRESENTED: (* = DATA-BASED; † = INVITED PRESENTATION)

2016	†The University of Michigan Doctoral Program. Global Ambassadors, University of Sao Paulo Ribeirao Preto. May 9, 2016.
	†Publishing and Dissemination in Nursing. Global Ambassadors, University of Sao Paulo Ribeirao Preto. May 13, 2016.
	*Genomic changes in lateral hypothalamus in CIPN. Midwest Nursing Research Society 40 th Annual Conference, Milwaukee, WI. (Wagner MA, Holden JE, Dorsey S).
2012	*Hypothalamic modulation of pain: Differences in dose, sex and pain type. Midwest Nursing Research Society 36 th Annual Conference, Dearborn, MI. (Wagner MA, Wang E, & Holden JE)
	*Neuropathic pain contributes to decreased activity and skeletal muscle atrophy but not to insulin resistance. Midwest Nursing Research Society 36 th Annual Conference, Dearborn, MI. (Moes J, & Holden JE)
2011	†Trends in Pain Research. Kyung Hee University Conference on Pain. Seoul, Korea. Keynote speaker
	†Nursing In America. Kyung Hee University. Invited presentation
	*Predictors of pain patterns in outpatients with cancer. Midwest Nursing Research Society, Columbus, OH. (Wilke DJ, Vincent CV, Holden J, Finnegan L, Wang ZJ, & Ngamkham S)
2010	*Hypothalamic modulation affects pain perception. CANS Symposium. Washington DC
	†Putting the bio in biobehavioral: Animal models. Midwest Nursing Research Society, Kansas City, MO. Invited presentation
	*Pain control behaviors in lung cancer outpatients. Midwest Nursing Research Society, Kansas City, MO. (Prasertsri N, Finnigan L, Vincent C, Holden JE, & Wilkie DJ)
	*Symptom clusters in the hospice/palliative care setting. Midwest Nursing Research Society, Kansas City, MO. (Stapleton SJ, Wilkie DJ, Epstein J, Gallo A, Holden JE, Robinson FP, & Wang E)
	†Hypothalamic pain modulation. Discovery to Implementation: Making a Difference, Dean's Lecture and Research Day, The University of Michigan. Invited presentation.
2009	*Hypothalamic modulation of chemotherapy-induced pain. Oncology Nursing Society. (Symposium)
	*†Hypothalamic mechanisms of endogenous pain relief. UIC Research Day. Invited.
2008	*†Forebrain modulation of pain. The University of Michigan. Invited presentation.
2006	*†Hypothalamic modulation of pain. University of Maryland. Invited presentation.
2005	*Stimulation of the lateral hypothalamus produces analgesia in inflammatory and neuropathic pain. Midwest Nursing Research Society, Cincinnati, OH. (Jeong Y, Pizzi JA, & Holden JE)
	†The lateral hypothalamus and pain modulation. Midwest Pain Society, Chicago, IL. (Plenary session speaker, by invitation.)
2003	*C-fibers mediate lateral hypothalamus-induced nociceptive modulation through the alpha-adrenoceptors. Midwest Nursing Research Society, St. Louis, MO. (Jeong Y, & Holden JE)
	*Lateral hypothalamic induced antinociception is mediated by a substance P connection with spinally projecting neurons in the ventromedial medulla. Midwest Nursing Research Society, St. Louis, MO. Presented by J. Pizzi.

2002	*Stimulation of the lateral hypothalamus produces analgesia mediated by serotonergic receptors in the spinal cord dorsal horn. Midwest Nursing Research Society, Chicago, IL.
2001	†Theory drives research, or is it the other way around? Rae M. Huegli Memorial Lecture, Valparaiso University. By invitation.
	†Basic science as part of nursing research. North Park University Sigma Theta Tau Induction, Chicago, IL. By invitation.
	*Stimulation of the lateral hypothalamus produces analgesia mediated by pontine noradrenergic neurons. Midwest Nurses Research Society, Cleveland, OH.
1999	*Morphine microinjection in the A7 catecholamine cell group produces opposing effects on pain. Midwest Nursing Research Society, Indianapolis, IN.
1998	*Lateral hypothalamic modulation of pain. Midwest Nursing Research Society, Columbus, OH.
1997	*Hyperalgesia from morphine microinjection in the A7 cell group is mediated by opioid receptors and more... Midwest Nursing Research Society, Minneapolis, MN.
1996	*Morphine microinjection in the A7 cell group causes hyperalgesia. Midwest Nursing Research Society, Detroit, MI.
	Pain research: From bench to bedside. Mary Kelly Mullane Symposium, Illinois Council of Nurse Researchers and Sigma Theta Tau, Chicago, IL.
1994	*The role of the dorsolateral pontine tegmentum in antinociception. Biologically-Based Nursing Research Seminar Series, The University of Illinois at Chicago.
1993	*Single cue use reduces spatial disorientation following hippocampal damage. Midwest Nursing Research Society, Cleveland, OH.
1991	*Disorientation: Effects of cues as a potential therapy. Midwest Nursing Research Society, Oklahoma City, OK.
1989	Current nursing research on disorientation. St. Joseph Mercy Hospital Continuing Education, Ann Arbor, MI.
1988	*Effects of hippocampal damage on adaptation to novelty. American Association of Neuroscience Nurses, San Diego, CA.
1984	Improving reading scores. National Precision Teaching Conference, Park City, UT.
1983	Use of PT on special ed kids. Utah Education Association, Salt Lake City, UT.
1982	Improved reading scores for special ed students. Utah Education Association, Salt Lake City, UT.

POSTERS PRESENTED (* = peer review; † = invited presentation)

2016	*Posterior-hypothalamic modulation of nociception for male and female rats in a neuropathic pain model. Society for Neuroscience. (Wagner MA, Holden JE) Submitted.
	*Sex differences in noradrenergic pain modulation in rat hypothalamus as an implication for gender differences in human pain. Council for the Advancement of Nursing Science. (Wagner MA, Holden JE) Submitted.
2015	No sex differences in the lateral hypothalamus-induced descending noradrenergic system in nociceptive and hyperalgesic pain. Society for Neuroscience, Chicago, IL. (Mantha B, Wagner MA, Banergee T, Holden JE)
	The effect of cobalt chloride on lateral hypothalamic-induced modulation in male and female rats. Society for Neuroscience, Chicago, IL. (Wagner MA, Holden JE)

2014	*Tonic norepinephrine release contributes to neuropathic pain in rats. Council for the Advancement of Nursing Science. (Wagner MA, Holden JE)
	*Tonic release of norepinephrine contributes to thermal hyperalgesia following chronic constriction injury in male and female rats. 15 th World Congress on Pain, Buenos Aires, Argentina. (Wagner MA, Kuhnke S, Holden JE)
	*Tonic norepinephrine release contributes to neuropathic pain in rats. Midwest Nursing Research Society 37 th Annual Conference, St. Louis, MO and the University of Michigan School of Nursing, Dean's Research Day. (Wagner MA, Holden JE)
	*Sex differences in the LH-induced descending noradrenergic system in neuropathic pain. Midwest Nursing Research Society 37 th Annual Conference, St. Louis, MO and the University of Michigan School of Nursing, Dean's Research Day. (Knoerl R, Holden JE)
	*The role of orexins in hypothalamic-mediated analgesia in neuropathic pain. University of Michigan School of Nursing, Dean's Research Day. (Wardach J, Holden JE)
2013	*Tonic activation of the descending alpha-adrenergic system contributes to hyperalgesia following chronic constriction injury in male and female rats. Society for Neuroscience, San Diego, CA. (Wagner MA, Kuhnke S, Holden JE)
2012	*Hypothalamic modulation of nociception: Differences in dose, sex, and pain type. 14 th World Congress on Pain, Milan, Italy. (Wagner MA, Kuhnke S, Holden JE)
	*The role of the lateral hypothalamus in alleviating Taxol-induced neuropathic pain in rats. Midwest Nursing Research Society 36 th Annual Conference, Dearborn, MI. (Roy M, Holden, JE)
2011	*Effects of neuropathic pain on insulin resistance. Society for Neuroscience. (Moes JR, Holden JE)
	*Predictors of pain patterns In outpatients with cancer, for presentation at the Midwest Nursing Research Society Annual Research Conference Guaranteed Symposium, Columbus, OH. (Ngamkham S, Wilkie DJ, Vincent C, Holden JE , Finnegan L, Wang E)
2010	*Hypothalamic-induced antinociception in hyperalgesia: Possible sex differences. 13 th World Congress on Pain, Montreal, Canada. (Moes JR, Kuhnke S, & Holden JE)
	*Pain control behaviors in lung cancer outpatients. 13 th World Congress on Pain, Montreal, Canada. (Prasertsri N, Finnegan L, Vincent C, Holden JE, Keefe FJ, Wilkie DJ)
2009	*The effect of posterior hypothalamic stimulation on Taxol-induced neuropathic pain. University of Michigan School of Nursing, Dean's Research Day. Prize awarded for peer-judged competition.
2008	*†Alpha1 adrenoceptor mediated pronociception attenuates induced anti-nociception in rats. Ehrlich II Worldwide Conference on Magic Bullets. Celebrating the Nobel Prize of Paul Ehrlich. Nürnberg, Germany. Invited.
	*The effect of posterior hypothalamic stimulation on Taxol-induced neuropathic pain. International Association of Pain, Glasgow, Scotland. (Holden JE, Jeong Y)
2007	*The role of orexin-1 receptors in posterior hypothalamic-induced antinociception. MNRS Graduate Student Poster Competition, Omaha, NE. First place. (Jeong Y, Holden JE)
2006	*The role of orexin-1 receptors in posterior hypothalamic-induced antinociception. Society for Neuroscience, Atlanta, GA. (Jeong Y, Holden JE)
2005	*The posterior hypothalamus modulates nociception via alpha adrenoceptors in the spinal cord dorsal horn. Society for Neuroscience, Washington, DC. (Jeong Y, Holden JE)
2004	*The periaqueductal gray mediates lateral hypothalamic-induced antinociception. Society for Neuroscience, San Diego, CA. (Pizzi JA, Holden JE)

	*Stimulation of the lateral hypothalamus produces antinociception in inflammatory and neuropathic pain. Society for Neuroscience, San Diego, CA. (Jeong Y, Pizzi JA, Holden JE)
2003	*C-fibers mediate lateral hypothalamus-induced nociceptive modulation through the alpha-adrenoceptors. Society for Neuroscience, New Orleans, LA. (Jeong Y, Holden JE)
	*Lateral hypothalamic induced antinociception is mediated by a substance P connection with spinally projecting neurons in the ventromedial medulla. Society for Neuroscience, New Orleans, LA. (Pizzi JA, Holden JE)
2002	*Stimulation of the lateral hypothalamic produces antinociception mediated by serotonin receptors in the spinal cord dorsal horn. Society for Neuroscience, Orlando, FL. (Holden JE, Naleway E)
	*Hypothalamic stimulation and descending noradrenergic analgesia. NINR State of the Science. Washington DC.
2001	*Antinociception from lateral hypothalamic stimulation is blocked by an NK-1 receptor antagonist in the A7 catecholamine cell group. Society for Neuroscience, San Diego, CA. (Holden JE, Van Poppel AY, Thomas S)
	*†Lateral hypothalamic stimulation produces analgesia mediated by the A7 catecholamine cell group. Sigma Theta Tau, Indianapolis, IN. By invitation. (Naleway E, Holden JE)
	*Lateral hypothalamic stimulation produces analgesia mediated by the A7 catecholamine cell group. Midwest Nursing Research Society, Graduate Student Poster Session. Cleveland, OH. (Van Poppel A, Holden JE)
2000	*Stimulation of the lateral hypothalamus produces antinociception mediated by the A7 catecholamine cell group. Society for Neuroscience, New Orleans LA. (Holden JE, Naleway E, Van Poppel A)
	*†Lateral hypothalamic modulation of pain. ANA 2000 convention, Indianapolis, IN. By invitation.
1999	*Lateral hypothalamic modulation of pain. Sigma Theta Tau International State of the Science Symposium, Washington, DC.
1998	*Microinjection of morphine near the A7 catecholamine cell group produces opposing effects on nociception mediated by different alpha-adrenoceptors in the spinal cord. Society For Neuroscience, Los Angeles, CA. (Holden JE, Proudfit HK)
1997	*Hyperalgesia produced by morphine microinjection in the A7 catecholamine cell group is mediated by alpha-1 adrenoceptors in the rat spinal cord. Society For Neuroscience, New Orleans, LA. (Holden JE, Proudfit HK)
1996	*Microinjection of morphine in the A7 catecholamine cell group produces hyperalgesia. Society for Neuroscience, Washington, DC. (Holden JE, Proudfit HK)
1995	*Projection of met-Enkephalin neurons to noradrenergic neurons in the dorsolateral pontine tegmentum: A role in the modulation of pain. Midwest Nursing Research Society, Kansas City, KA. (Holden JE, Proudfit HK)
	*Projection of substance P and met-Enkephalin neurons to the dorsolateral pontine tegmentum: A role in nociception. Society For Neuroscience, San Diego, CA. (Holden JE, Proudfit HK)
1994	*Projection of substance P and met-Enkephalin neurons to the dorsolateral pontine tegmentum: A possible role in nociception. Society For Neuroscience, Miami Beach, FL. (Holden JE, Proudfit, HK)
1993	*Effects of a cue and distracter on spatial learning after hippocampal damage: Gender differences. Society for Neuroscience, Washington, DC. (Therrien B, Holden JE, Hebda-Bauer E)

	*Familiarity and cue use: Effects of unilateral hippocampal damage in disoriented animals. Midwest Nursing Research Society, Cleveland, OH. (Hebda-Bauer E, Holden JE, Therrien B)
1992	*Cue familiarity reduces spatial disorientation following hippocampal damage. Society for Neuroscience, Anaheim, CA. (Holden JE, & Therrien B)
	*†Cue use and familiarity following hippocampal damage. American Nurses Association Convention, by invitation of the American Nurses Foundation, Las Vegas, NV By invitation.
	*The effect of preoperative training on cue use following hippocampal damage. Sigma Theta Tau International Conference on Nursing Research. Columbus, OH.
	*Preoperative cue familiarity reduces spatial disorientation following hippocampal damage. Midwest Nursing Research Society, Chicago, IL.
1991	*Ethnic differences in carotid artery flow velocity during straining in healthy, hypertensive and obese subjects. Midwest Nursing Research Society, Oklahoma City, OK. (Holden JE, Metzger BL, Therrien B)
1990	*Hypertension and body position affect carotid artery blood flow velocity during the Valsalva maneuver. Society for Neuroscience, St. Louis, MO. (Holden JE, Cimprich B, Metzger BL, Therrien B)

TEACHING:

2011-2014	N210, Anatomy and Physiology
2010-2014	N245, Pathophysiology
2009-2013	N502, Advanced Physiology and Pathophysiology Across the Life Span
2007	NUSC 595, Seminar in Nursing
2006	NUSC 585/594, Pain Mechanisms
2004-2008	NUSC 420/423, Pathophysiology and Pharmacology Across the Life Span
2003-2004	NUSC 535 (co-instructor), Biological Basis of Disease
1999-2000	NUSC 515 (co-instructor), Measurement in Nursing Research
1997-2001	NUSC 217 (coordinator & instructor), Pathophysiology II
1996-2008	NUSC 215 (coordinator & instructor), Pathophysiology & Applied Pharmacology I
1980-1985	Secondary Education Teacher, Special Education & Health, Monticello High School, Monticello, UT
1978-1980	Associate Director and Instructor, LPN Program, College of Eastern Utah

POST-DOCTORAL ADVISEMENT

Kirvan-Visovatti M (2013-present).

PHD DISSERTATIONS

Wagner, M (in process). Genetic differences in pain processing. Chair.

Funding: MNRS Foundation grant, \$2,500, April 2015.

Knoerl, R (in process). The use of mindfulness in relieving chemotherapy-induced neuropathic pain. Member.

Skuladottir H (in process). Effects of rehabilitation programs on Icelandic chronic pain patients' well-being. University of Iceland. Member.

Moes J (2012). Effects of exercise on the inflammatory response associated with Type 2 diabetes. University of Michigan School of Nursing. Chair.

Funding: University of Michigan Rackham Research Grant, \$2,949, November, 2010.

Funding: MNRS/CANS Dissertation Research Grant, \$2,500, April, 2011.

Funding: University of Michigan School of Nursing New Investigator's Award, \$3,000, April, 2011.

Pizzi J (on leave since 2007). College of Nursing, University of Illinois at Chicago. Chair.

Funding: National Science Foundation Fellowship, 2005.

Golas M (in process). College of Nursing, University of Illinois at Chicago. Member.

Prasertsri N (2010). Pain control behaviors in lung cancer outpatients. College of Nursing, University of Illinois at Chicago. Member.

Ngamkham S (2010). Pain Patterns in Outpatients with Cancer. College of Nursing, University of Illinois at Chicago. Member.

Stapleton S (2010). Symptom clusters in the hospice/palliative care setting. College of Nursing, University of Illinois at Chicago. Member.

Bell A (2009). Neonatal neurobehavioral organization after exposure to maternal epidural in labor. College of Nursing, University of Illinois at Chicago. Member.

Jeong Y (2007). The role of spinal orexin-1 receptors in posterior hypothalamic modulation of neuropathic pain. College of Nursing, University of Illinois at Chicago. Chair.

Walker I (2007). The effect of a patient teaching program on symptoms of regional pain syndrome. College of Nursing, University of Illinois at Chicago. Member.

Jones TL (2004). Department of Anatomy and Cell Biology, University of Illinois at Chicago. Member.

Watkins GF (2001). Effect of pain education on postoperative pain management. College of Nursing, University of Illinois at Chicago. Member.

Forest JF (1999). Chronic pain as described by cognitively impaired and intact elderly: A methodological study. College of Nursing, University of Illinois at Chicago. Co-Chair.

Nuseir K (1999). GABA modulation of descending noradrenergic nociception modulation. Department of Pharmacology, University of Illinois at Chicago. Member.

MASTERS THESES/PROJECTS

Taylor S (2011). Sex differences in hypothalamic modulation of acute pain in rats. University of Michigan. Chair.

Evans K (2011). Sex differences in hypothalamic modulation of neuropathic pain in rats. University of Michigan. Chair.

Ottino J (2010). Complication rates and factors related to implantable cardioverter defibrillator (ICD) implantation that influence hospital length of stay. University of Michigan. Chair.

Pizzi J (2008). Review of Pain Processes. College of Nursing, University of Illinois at Chicago. Chair.

Nanna B (2006). College of Nursing, University of Illinois at Chicago. Reader.

Van Poppel A (2002). Antinociception from lateral hypothalamic stimulation is mediated by NK1 receptors in the A7 catecholamine cell group in the rat. College of Nursing, University of Illinois at Chicago. Chair.

HONORS COLLEGE STUDENTS MENTORED

Knoerl R (2012-2014). School of Nursing, University of Michigan. Outcome: Poster presentation, "Sex differences in the LH-induced descending noradrenergic system in neuropathic pain."

Midwest Nursing Research Society 37th Annual Conference, St. Louis, MO, The University of Michigan School of Nursing, Dean’s Research Day; Florida Seminar Series.

Wardach J (2012-2014). School of Nursing, University of Michigan. Outcome: Manuscript for publication, “Lateral hypothalamic stimulation reduces thermal hyperalgesia through spinally descending orexin-A neurons in neuropathic pain;” poster presentation, “The role of orexins in hypothalamic-mediated analgesia in neuropathic pain,” University of Michigan School of Nursing, Dean’s Research Day, 2014.

Bielaniec BR (2011). Independent study. School of Nursing, University of Michigan.

Roy M (2009-2011). School of Nursing, University of Michigan. Outcome: Research project titled, “The effect of hypothalamic stimulation on Taxol-induced neuropathic pain,” funded by Neuroscience Nurses Foundation Integra Grant; poster presentation, “The role of the lateral hypothalamus in alleviating Taxol-induced neuropathic pain in rats,” Midwest Nursing Research Society 36th Annual Conference, Dearborn, MI, 2014.

Escalona M (2008). College of Nursing, University of Illinois at Chicago.

Sung NC (2008). Department of Literature, Arts, & Science, University of Illinois at Chicago.

Swierczek M (2008). College of Nursing, University of Illinois at Chicago.

Dorsey M (2008). College of Nursing, University of Illinois at Chicago.

Young A (2008). College of Chemistry, University of Illinois at Chicago.

SPONSOR / MENTOR:

UNDERGRADUATE LABORATORY RESEARCH OPPORTUNITY

2016	Jennifer Schweiger	University of Michigan	2012	Jennifer Prouty	University of Michigan
2015	Esther Min	University of Michigan	2012	Nicholas Marzec	University of Michigan
2015	Samuel Han	University of Michigan	2012	Zachary Cavell	University of Michigan
2015	Jessica Choi	University of Michigan	2012	Jenna Lloyd	University of Michigan
2015	Kaitlin Baker	University of Michigan	2011	Jacob Wardach	University of Michigan
2014	Justeena Adams	University of Michigan	2011	Robert Knoerl	University of Michigan
2014	Rachael Hua	University of Michigan	2011	Christina Nezich	University of Michigan
2014	Collin Carey	University of Michigan	2011	Caroline Connolly	University of Michigan
2014	Rebecca Mulder	University of Michigan	2011	Kathleen Balfour	University of Michigan
2014	Emily O’Neil	University of Michigan	2011	Joshua Degutis	Washtenaw Comm College
2013	Brady Reeves	University of Michigan	2010	Nicholas Shipman	University of Michigan
2013	Colburn Stuu	University of Michigan	2010	Mongtu Ngo	University of Michigan
2013	Bridget Granger	University of Michigan	2010	Tatiana Hortig	University of Michigan
2013	Emily Sahagian	University of Michigan	2010	Shakil Chowdhury	University of Michigan
2013	Benjamin Frey	University of Michigan	2009	Moneesha Roy	University of Michigan
2013	Brody Mantha	University of Michigan	2009	Jane Flynn	University of Michigan
2013	Jordan Grauer	University of Michigan	2009	Amanda Maduko	University of Michigan
2013	Joel Adu-Brimpong	University of Michigan	2005	Ally Stalzer	Univ of Illinois at Chicago
2013	Grace Min	University of Michigan	2004	Eunice Choi	Univ of Illinois at Chicago
2013	Jonathan Goldstein	University of Michigan	2003	Julie Pizzi	Univ of Illinois at Chicago
2012	Taylor Young	University of Michigan	2001	Sager Abu Inseir	Univ of Illinois at Chicago
2012	Matthew Wagner	University of Michigan	2000	Leslie Wilkans	Univ of Illinois at Chicago
2012	Anna Kingsinger	University of Michigan	2000	Sara Eul	Univ of Illinois at Chicago
2012	Jennifer Prouty	University of Michigan	2000	Diana Mcknight	Univ of Illinois at Chicago
2012	Benjamin Newman	University of Michigan	1999	Erin Naleway	Univ of Illinois at Chicago

HIGH SCHOOL SCIENCE OUTREACH EXPERIENCE

2005	Jon Pizzi	University of Illinois at Chicago
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ADVISORY & CONSULTING POSITIONS:

2014	Consultant-grant review, University of Texas Galveston
2013	Consultant: University of Tbilisi, Republic of Georgia, Neuroscience Grant
2012	Consultant: Georgia Health Sciences University School of Nursing Grants
2006	Consultant: University of Maryland School of Nursing Neuroscience Program

MAJOR COMMITTEES AND ADMINISTRATIVE ACTIVITIES:**RESEARCH REVIEW:**

2016-present	Manuscript review: <u>Neuropeptides</u>
2016-present	Manuscript review: <u>Behavioral Pharmacology</u>
2016	NIH, NINR reviewer for P20 and P30 Centers on self-management
2014-present	ZRG1 OTC-K: Lasker Clinical Research Scholars Program grant review
2014-present	NIH, NINR reviewer for NRRC study section
2013-present	Manuscript review: <u>World Journal of Anesthesiology</u>
2011-present	Grant review: Rackham Merit Scholarship, The University of Michigan
2011-2015	Small Grants Review: American Pain Society
2010-present	Manuscript review: <u>Journal of Chemical Neuroanatomy</u>
2010-2014	NIH, NINR reviewer for NRCS study section
2009-2010	NIH, NINR ad hoc reviewer for NSAA study section
2009	NIH, NINR ad hoc reviewer for RC2/GO RFA Study Section, July 20
2010-present	Manuscript review: <u>Metabolism</u>
2010-present	Manuscript review: <u>Journal of Neurophysiology</u>
2008-present	Manuscript review: <u>Naunyn-Schmiedeberg's Archives of Pharmacology</u>
2008-present	Manuscript review: <u>Pharmacology, Biochemistry, & Behavior</u>
2007-present	Manuscript review: <u>Journal of Pharmacy & Pharmacology</u>
2007-present	Manuscript review: <u>Journal of Neuroscience Methods</u>
2007-present	Manuscript review: <u>Journal of the American Psychiatric Association</u>
2006	NIH, National Institute for Nursing Research, Minority Biomedical Research Support Review Panel, ad hoc reviewer, First Award Grants
2006-present	Manuscript review: <u>Research in Nursing & Health</u>
2006, 2008	Judge: Graduate Student Posters, College of Nursing, UIC
2004-present	Manuscript review: <u>Biological Research for Nursing</u>
2002-present	Manuscript review: <u>Journal of Pain</u>
2001	NIH, NINR, Adult Nursing Study Section, ad hoc reviewer, R01 grants
2001-present	Manuscript review: <u>Brain Research</u>
2001-present	Manuscript review: <u>British Journal of Pharmacology</u>

2000-2006	Abstract Review Panel: Midwest Nursing Research Society
2000-present	Manuscript review: <u>Canadian Journal of Pharmacology</u>

SCHOOL AND UNIVERSITY COMMITTEES

2016	Translational Research Council
2016	Member: Health Sciences Lab Safety Committee
2015-2016	Fellow: Academic Leadership Program, Committee on Institutional Cooperation, University of Michigan
2015-present	Member: University Controlled Substances Oversight Committee.
2014-present	Administrative Group: advisory to the Dean of the School of Nursing
2012-2013	Member: Search Committee for French Endowed Chair, University of Michigan, School of Nursing
2012-present	Ad Hoc Member: Animal Care Committee, University of Michigan, University Lab Animal Medicine
2011-2014	Member: PhD Curriculum Revision Chair, University of Michigan, School of Nursing
2010-2011	Faculty chairperson, University of Michigan, School of Nursing
2009-2011	Member: Appointment, Tenure, and Promotion Committee, University of Michigan School of Nursing
2009-present	Member: Division I Advisory Group, University of Michigan School of Nursing
2009-present	Member: Research Advisory Committee, University of Michigan School of Nursing
2008	Chair: Subcommittee: Faculty Productivity and Teaching, AACN Accreditation Committee, College of Nursing, UIC
2007	Member: Department Advisory Committee, College of Nursing, UIC
2007	Chair: Graduate Subcommittee: Senate Committee on Educational Policy, UIC
2006	Chair: Dean's Tenure Review Committee, College of Nursing, UIC
2003-2007	Chair: Undergraduate Subcommittee: Senate Committee on Educational Policy, UIC
2003-2007	Faculty Chairperson, College of Nursing, UIC
2003-2004	Member: Curriculum Committee (subcommittee to establish the graduate early admission program), UIC
2002-2003	Member: Undergraduate Subcommittee: Senate Committee on Educational Policy, UIC
2002-2004	Member: Senate Judiciary Committee, UIC
2001-2007	Member: Faculty Executive Committee, College of Nursing, UIC
1998-2000	Member: APT Committee, UIC
1998-2000	Member: Department Advisory, Med/Surg Nursing, UIC
1997-2000	Member: Department Computer Committee, College of Nursing, UIC
1997-2001	Member: Baccalaureate Admissions and Academic Standards, College of Nursing, UIC

1996-2008	Member: Animal Care Facilities Committee, UIC
1996-2002	Member: College Animal Care Committee, UIC

PROFESSIONAL COMMITTEES

2016-	President-elect: Midwest Nursing Research Society Foundation
2008-2014	Secretary-Treasurer: Midwest Nursing Research Society Foundation
2011-present	Editorial Board Member: World Journal of Anesthesiology
2006-2010	Vice President: Midwest Nursing Research Society
2006	Founding Board Member: Midwest Nursing Research Society Foundation
2004-2006	Co-chair: Midwest Nursing Research Society Physiology Section
2004	Local Host Committee Chair: Midwest Nursing research Society
2003-2008	Board member: Western Journal of Nursing Research
2002	Invited Member: NINR Special Panel to Develop a Research Agenda
2000-2008	Member: American Pain Society Education Committee
2000-2002	Member: Awards Committee, Midwest Nursing Research Society

COMMUNITY SERVICE

2013-2016	Counselor: Women's Organization, LDS Church
2011-2013	Advisor: Young Women's Group; Ypsilanti Ward, LDS Church
2010-present	Secretary Treasurer: McRee Lane Association
2008-2011	Religious Education Teacher: Adult Sunday School. Ypsilanti Ward, LDS Church
2005-2008	Stake Primary President: Chicago, IL Stake, LDS Church (oversaw the religious education for children in the South Chicago city and west suburban region)
2002-2005	Counselor and Camp Nurse: Young Women's Organization, LDS Church
1997-2001	President: Relief Society (Women's Organization), Westchester First Ward, LDS Church

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