

Young-Eun Cho, Ph.D. RN

Assistant Professor

The University of Iowa
College of Nursing
CNB #482 50 Newton Rd. Iowa City IA
319-467-1738
ycho4@uiowa.edu

EDUCATION

- 2010 PhD Yonsei University College of Medicine, Medical Science (Vascular physiology)
Seoul, S. Korea
2005 MS Yonsei University College of Medicine, Seoul, S. Korea
2001 BSN Yonsei University College of Nursing – Nursing, Seoul, S. Korea

PhD Dissertation:

Enhanced contraction and myosin phosphorylation induced by Ca²⁺-independent MLCK in spontaneously hypertensive rats (*Cardiovasc Res.* 2011;91(1):162-170)

Master's Thesis:

Intracellular acidosis induced myogenic tone change in rabbit basilar artery: Role of extracellular Ca²⁺, SR Ca²⁺ release and Ca²⁺ sensitization (*Vascul Pharmacol.* 2007;47(1):74-82)

LICENSURES

- 2000 Registered Nurse in S. Korea (#1666792)
2020 Registered Nurse in Iowa (#160789)
2020 Registered Nurse in NY (#801172)

PROFESSIONAL EXPERIENCE

Academic Appointments

- 8/2019-present Assistant Professor, University of Iowa, College of Nursing; Obesity Research and Education Initiative
- 1/2016-8/2019 Research fellow, National Institute of Nursing Research, National Institutes of Health
- Single cell RNA-sequencing project in PBMCs from minor stroke
 - Exosomal miRNA changes with Mediterranean diet in breast cancer survivors
 - Exosomal protein changes with weight gain in kidney transplant recipients
 - Altered DNA methylation patterns with PTSD symptoms
- 9/2014-1/2016 Visiting Fellow, National Institute of Nursing Research, National Institutes of Health

Health

- Gene expression in old TBI patients linked to MRI images
- Increased oxidative stress in weight gain of kidney transplant recipients

- 3/2011-8/2014 Postdoctoral Fellow, University of Illinois at Chicago College of Medicine
- Endothelial dysfunction and oxidative stress in coronary artery of type 2 diabetic mice
 - Increased oxidative stress in cardiac hypertrophy of miR450 knockout mice

Clinical

- 10/2002-8/2003 Clinical Research Associate in Choongwae pharmaceutical corporation (Seoul, Korea);
- Overseeing the clinical trials for a new statin drug
 - Participating in developing the protocol for other clinical trials
- 4/2001-10/2002 Registered nurse in Thoracic surgery ICU in Samsung Medical Center (Seoul, Korea)
- Providing the intensive cares for adult and infant patients who undergo heart, lung and esophagus surgeries
 - Developing the protocol for the ICU nursing care

HONORS AND AWARDS

- 2020 Best article award (Journal of Korean Biological Nursing Science)
- 2018 Performance Award: National Institute of Nursing Research in NIH
- 2013 BCVS Abstract Travel Grant: American Heart Association's Council on Basic Cardiovascular Sciences (BCVS)
- 2009 Excellent poster presentation award: the 61st federation meeting of the Korean physiological society

SCHOLARSHIP

Publications

(Note: # Co-first authors; * Data Based; Underline student or trainee author; ¶ Corresponding author)

Journal articles

1. *¶**Cho YE**, Shaoshuai C, Crouch K, Yun J, Klingelutz A. Impact of Aging and High-Fat Diet on Adipose Tissue-Derived Extracellular Vesicle miRNA Profiles in Mice (2022) *Biomedicine (Under Review)*
2. *#**Cho YE**, Kim J, Vorn R, Baik WH, Park H, Yun S, Kim HS, Cashion AK, Gill J, Koo BN, Lee H. Extracellular Vesicle MicroRNAs as Predictive Biomarkers in Postoperative Delirium after Spine Surgery (2022) *The Journals of Gerontology Series A (Under Revision)*
3. Moon C, Schneider A, **Cho YE**, Zhang M, Dang HL, Vu KH. Sleep Duration, Sleep Efficiency,

and Amyloid β Among Cognitively Healthy Later-Life Adults: A Systematic Review and Meta-Analysis (2022) *BMC Geriatrics (Under Revision)*

4. ***Cho YE**, Vorn R, Chimenti M, Shaoshuai C, Crouch K, Narayanaswamy J, Harken A, Schmidt R, Gill J, Lee H. Extracellular Vesicle miRNAs in Breast Milk of Obese Mothers (2022) *Frontiers in Nutrition*. doi.org/10.3389/fnut.2022.976886
5. ***Cho YE**, Lee H, Bae HR, Kim H, Yun S, Vorn R, Cashion A, Rucker MJ, Afzal M, Latour L, Gill J (2022). A Circulating Immune Cell Landscape in Patients who had Mild Ischaemic Stroke. *Stroke and Vascular Neurology*, *svn-2021-001224*. doi: 10.1136/svn-2021-001224
6. *Edwards KA, Motamedi V, Osier ND, Kim HS, Yun S, **Cho YE**, Lai C, Dell KC, Carr W, Walker P, Ahlers S, LoPresti M, Yarnell A, Tschiffley A, Gill J. (2020). A Moderate Blast Exposure Results in Dysregulated Gene Network Activity Related to Cell Death, Survival, Structure, and Metabolism. *Front Neurol*, *26(11)*:91. doi: 10.3389/fneur.2020.00091.
7. ***Kwon YJ**, **Cho YE**, Cho AR, Choi WJ, Yun S, Park H, Kim HS, Cashion AK, Gill J, Lee H and Lee JW (2020). The Possible Influence of Mediterranean Diet on Extracellular Vesicle miRNA Expression in Breast Cancer Survivors. *Cancers (Basel)*, *12(6)*:1355. doi: 10.3390/cancers12061355.
8. ***Cho YE**, Lee H, Yun S, Kim HS, Cashion AK. (2020). Exosomal Protein Profiles as Novel Biomarkers in Weight Gain After Kidney Transplantation: A Pilot Study. *Journal of Korean Biological Nursing Science*, *22(2)*:1-8. doi.org/10.7586/jkbns.2020.22.2.119
9. *Hladek MD, Szanton SL, **Cho YE**, Lai C, Sacko C, Roberts L, Gill J (2018). Using Sweat to Measure Cytokines in Older Adults Compared to Younger Adults: A pilot study. *J Immunol Methods*, *Mar(454)*:1-5. doi: 10.1016/j.jim.2017.11.003
10. ***Martin C**, **Cho YE**, Kim HS, Yun SJ, Kanefsky R, Lee H, Mysliwiec V, Cashion AK, Gill J. (2018). Altered DNA Methylation Patterns Associated With Clinically Relevant Increases in PTSD symptoms and PTSD Symptom Profiles in Military Personnel. *Biological Research in Nursing*, *20(3)*:352-358. doi: 10.1177/1099800418758951
11. *Pantik C, **Cho YE**, Hathaway D, Tolley E, Cashion AK (2017). Characterization of Body Composition and Fat Mass Distribution 1 year After Kidney Transplantation. *Progress in Transplantation*, *27(1)*:10-15. doi: 10.1177/1526924816681007
12. ***Cho YE**, Latour L, Kim HS, Olivera A, Livingston W, ...Gill J and Cashion AK (2016). Older Age Results in Differential Gene Expression after Mild Traumatic Brain Injury and is Linked to Imaging Differences at Acute Follow-up. *Frontiers in Aging Neuroscience*, *13(8)*:168. doi: 10.3389/fnagi.2016.00168
13. ***Cho YE**, Kim HS, Lai C, Stanfill A, Cashion AK (2016). Oxidative Stress is associated with Weight Gain in Recipients at 12-months Following Kidney Transplantation. *Clinical Biochemistry*, *49(3)*:237-42. doi: 10.1016/j.clinbiochem.2015.11.002
14. **Cho YE**, Cashion AK (2016). Mechanism of Weight Gain in Kidney Transplantation

Recipients. *Keimyung Journal of Nursing Science*, 19(3):71-79

15. *Han Y, **Cho YE**, Ayon R, Youssef K, Pan M, Dai A, Yuan J, Makino A (2015). SGLT Inhibitors Attenuate NO-dependent Vascular Relaxation in Pulmonary Artery but not in Coronary Artery. *Am J Physiol Lung Cellular and Molecular Physiology*, 309(9):L1027-36. doi:10.1152/ajplung.00167.2015.
16. ***Cho YE**, Basu A, Dai A, Heldak M, Makino A (2013). Coronary Endothelial Dysfunction and Mitochondrial Reactive Oxygen Species in Type 2 Diabetic Mice. *Am J Physiol Cell Physiol*, 305(10):C1033-40. doi: 10.1152/ajpcell.00234.2013.
17. *Lim M, Choi SK, **Cho YE**, Yeon SI, Kim EC, Ahn DS, Lee YH (2012). The Role of Sphingosine Kinase 1/sphingosine-1-phosphate Pathway in the Myogenic Tone of Posterior Cerebral Arteries. *Plos One*, 7(4):e35177. doi: 10.1371/journal.pone.0035177
18. *Sasaki K, Donthamsetty R, Heldak M, **Cho YE**, Scott BT, Makino A (2012). VDAC: Old Protein with New Roles in Diabetes. *Am J Physiol Cell Physiol*, 303(10):C1055-6. doi: 10.1152/ajpcell.00087.2012.
19. ***Cho YE**, Ahn DS, Morgan KG, Lee YH (2011). Enhanced contraction and myosin phosphorylation induced by Ca²⁺-independent MLCK in spontaneously hypertensive rats. *Cardiovasc Res*, 91(1):162-170. doi: 10.1093/cvr/cvr043
20. *Ahn DS, Choi SK, Kim YH, **Cho YE**, Shin HM, Morgan KG, Lee YH (2007). Enhanced Stretch-induced Myogenic Tone in the Basilar Artery of Spontaneously Hypertensive Rats. *J Vasc Res*, 44(3):182-91. doi: 10.1159/000100374.
21. ***Cho YE**, Ahn DS, Kim YH, Taggart MJ, Lee YH (2007). Changes in Stretch-induced Tone induced by Intracellular Acidosis in Rabbit Basilar Artery: Effects on BK_{Ca} Channel Activity. *Vascul Pharmacol*, 47(1):74-82. doi: 10.1016/j.vph.2007.04.006
22. *Ryu SK, Ahn DS, **Cho YE**, Choi SK, Kim YH, Morgan KG, Lee YH (2006). Augmented sphingosylphosphorylcholine-induced Ca²⁺-Sensitization of Mesenteric Artery Contraction in Spontaneously Hypertensive Rat. *Naunyn Schmiedebergs Arch Pharmacol*, 373(1):30-6. doi: 10.1007/s00210-006-0036-7
23. *Jang GJ, Ahn DS, **Cho YE**, Morgan KG, Lee YH (2005). C2-ceramide Induces Vasodilation in Phenylephrine-induced Pre-contracted Rat Thoracic Aorta: role of RhoA/Rho-kinase and intracellular Ca²⁺ concentration. *Naunyn Schmiedebergs Arch Pharmacol*, 372(3):242-50. doi: 10.1007/s00210-005-0008-3

Abstract

1. ***Cho YE**, Vorn R, Crouch K, Narayanaswamy J, Chang C. (2021). Characteristics of Extracellular Vesicle miRNAs in the Breast Milk. *Circulation 144 (Suppl_1)*, A14050-A14050. https://doi.org/10.1161/circ.144.suppl_1.14050
2. *Edwards KA, Motamedi V, Osier ND, Kim HS, Yun S, **Cho YE**, Lai C, Dell KC, Carr W,

- Walker P, Ahlers S, LoPresti M, Yarnell A, Tschiffley A, Gill J. (2020). Moderate Blast Exposure Results in Deregulated Gene Network Activity. *Journal of Neurotrauma* 35 (16), A278-A278
3. ***Cho YE**, Martin C, Kim HS, Yun SJ, Kanefsky R, Lee H, Mysliwiec V, Cashion AK, Gill J. (2017). Altered DNA Methylation Patterns Associated with Clinically Relevant Increases in PTSD Symptoms and PTSD Symptom Profiles in Military Personnel. *The FASEB Journal* 31, 1058.7-1058.7
 4. ***Cho YE**, Zhang C, Ranjan R, Christman JW, Zhao Q, Xiao L. (2018). Novel Role of microRNA (miR)-451 in Modulation of Oxidative Stress and Kinase Signaling in Mouse Myocardium. *Circulation* 128 (suppl_22), A14003-A14003.
 5. ***Cho YE**, Zhang C, Ranjan R, Christman JW, Xiao L, Zhao Q. (2015). microRNA (miR)-451 Regulates Cardiac Growth and Myocardial Reactive Oxidative Species (ROS) Level via Nrf2 and AMPK Pathways. *Circulation* 132 (suppl_3), A16546-A16546
 6. *Han Y, **Cho YE**, Ayon R, Guo R, Youssef KD, Pan M, Dai A, Yuan J, Makino A. (2015) SGLT inhibitors Attenuate NO-dependent Vascular Relaxation in Mouse Pulmonary Artery. *The FASEB Journal* 28, 677.3
 7. *Han Y, **Cho YE**, Ayon R, Pan M, Dai A, Yuan J, Makino A. (2014) Vascular Response to the Sodium-Glucose Cotransporter Inhibitor in Type 2 Diabetic Mice. *Circulation* 130 (suppl_2), A12295-A12295.
 8. ***Cho YE**, Pangare M, Makino A. (2012) Role of Superoxide Anion in Coronary Endothelial Dysfunction in Type 2 Diabetic Mice. *The FASEB Journal* 26, 1129.8-1129.8
 9. ***Cho YE**, Kim YH, Lee YH, Ahn DS. (2008) Effects of pHi Change on Spontaneous Contraction and Ionic Currents in Pregnant Rat Uterine Smooth Muscle. *The FASEB Journal* 22, 1206.12-1206.12
 10. *Choi SK, **Cho YE**, Ahn DS, Lee YH (2007) Comparison of Difference of Patterns and Mechanisms between SPC-and S1P-induced Contraction in Rabbit Coronary Artery. *Korean Journal of Physiology & Pharmacology* 11, 32-0
 11. ***Cho YE**, Ahn DS, Kim YH, Choi SK, Taggart MJ, Lee YH (2006) Changes in Myogenic Tone induced by Intracellular Acidosis in Rabbit Basilar Artery: Effects on BKCa channel Activity. *Korean Journal of Physiology & Pharmacology* 10, 143-0
 12. *Kim YH, Choi SK, **Cho YE**, Lee YH (2005) Differences of Sphingosylphosphorylcholine (SPC)-induced Vascular Contractility Between SHR and WKY. *The FASEB Journal* 19 (5), A1624-A1624
 13. ***Cho YE**, Choi SK, Kang BS, Lee YH (2005) Intracellular Acidosis Induced Myogenic Tone Change in Rabbit Basilar Artery-Role of Ca²⁺ Influx, SR Ca²⁺ Release and Ca²⁺ Sensitization. *Korean Journal of Physiology & Pharmacology* 9, 36-0

14. *Kim YH, Choi SK, **Cho YE**, Sa YS, Kang BS, Lee YH (2004) Effects of Intracellular Alkalosis or Acidosis in Phasic Contractions of Pregnant Rat Uterine Smooth Muscle. *Korean Journal of Physiology & Pharmacology* 8, 26-0
15. *Choi SK, Kim YH, **Cho YE**, Sa YS, Lee YH (2004) SPC Induces Rho-kinase Mediated Ca²⁺ Sensitization in Rabbit Middle Cerebral Artery. *Korean Journal of Physiology & Pharmacology* 8, 34-0
16. ***Cho YE**, Kim YH, Choi SK, Sa YS, Ahn DS, Lee YH Elevation of Myogenic Tone Induced Intracellular Acidosis in Rabbit Basilar Artery-Role of Extracellular Ca²⁺ and SR Ca²⁺ Release (2004) *Korean Journal of Physiology & Pharmacology* 8, 29-0
17. *Sa YS, **Cho YE**, Kim YH, Choi SK, Lee YH (2003) Mechanisms of Vasorelaxation by Ceramide and Its Role on the Production of Hypertension. *Korean Journal of Physiology & Pharmacology* 7, 23-0

Scientific and Educational Research Grants

Intramural research grants

2020-2022 Cho YE (PI). Extracellular Vesicles in Breastmilk: a Mediator between Obese Mothers and Children. The Fraternal Order of Eagles Diabetes Research Center (FOEDRC) in the University of Iowa, College of Medicine, \$100,000

Extramural research grants

2022 Cho YE (PI). Therapeutic Role of Breast Milk Extracellular Vesicles and its miRNA on Impaired Endothelial Cell Function. *R01 grant application is submitted. (2022 Oct)*

2013-2014 Cho YE (Post-doctoral Fellow). Role of p67phox in Myocardial Hypertension. National Research Foundation of Korea, \$33,000.

Training grants

2021 Old Gold Summer Fellowships, \$6,000

2021 Summer Grant Writing Support, \$3,000

Research Presentations

International

1. 2023, **Cho YE**, Chen S, Crouch K, Yun J. Altered adipose tissue-derived extracellular vesicle miRNAs in different ages and diets. American Association of Extracellular Vesicles. Boston, MA. Oral
2. 2023, Lee DK, Pavlovic M, **Cho YE**, Kim JS. *The Role of Exosomes in Cellular Toxicity induced by Copper Oxide Nanoparticles*. The Society of Toxicology, Nashville, TN. Poster
3. 2022, **Cho YE**, *The Role of Breast Milk Extracellular Vesicles on Endothelial Dysfunction*. American Heart Association Scientific Sessions, Chicago, IL. Poster
4. 2021, **Cho YE**, *Characteristics of Extracellular Vesicle miRNAs in the Breast Milk*. American Heart Association Scientific Sessions, Boston, MA. Virtual meeting. Poster

5. 2019, **Cho YE**, *Changes in circulating miRNA profiles after dietary interventions*. International Society of Nurses in Genetics 2019 Congress, San Antonio, TX. Poster
6. 2018, **Cho YE**, *Exosomal protein profiles and weight gain after kidney transplantation*. International Society of Nurses in Genetics, 2018 Congress in Orlando, FL. Oral
7. 2017, **Cho YE**, *Altered DNA methylation patterns associated with clinically relevant increases in PTSD symptoms and PTSD symptom profiles in military personnel*. Experimental Biology, The American Physiological Society Physiological Genomics Interest Group Annual Research Conference, Chicago, IL. Oral
8. 2015, **Cho YE**, *microRNA(miR)-451 regulates cardiac growth and myocardial reactive oxidative species (ROS) level via Nrf2 and AMPK and pathways*. American Heart Association Scientific Sessions, Orlando, Fl. Poster
9. 2013, **Cho YE**, *Novel role of microRNA (miR)-451 in modulation of oxidative stress and kinase signaling in mouse myocardium*. American Heart Association Scientific Sessions, Dallas, TX. Oral
10. 2012, **Cho YE**, *Role of superoxide in endothelial dysfunction in coronary artery from a mouse model of type 2 diabetes*. Experimental Biology, San Diego, CA. Poster

National

1. 2021, Zhang M, **Cho YE**, and Moon C, *The Relationship Between Neuropsychiatric Symptoms, Nighttime Behaviors, and Alzheimer's Disease CSF Biomarkers*. The Gerontological Society of America Annual Scientific Meeting, Virtual meeting. Poster
2. 2009, **Cho YE**, *Role of Ca²⁺ independent myosin light chain kinase in hypertension*. The 61st Federation Meeting of Korean Physiological Society. Seoul, Korea. Poster
3. 2008, **Cho YE**, *Intracellular acidosis induced myogenic tone change in rabbit basilar artery- Role of Ca²⁺ influx, SR Ca²⁺ release and Ca²⁺ sensitization*. The 57th Federation Meeting of Korean Physiological Society, Seoul, Korea. Poster

Regional

1. 2024, Howland C, Chen S, **Cho YE**. Social Determinants of Health and Accelerated Epigenetic Aging in Type 2 Diabetes: A Systematic Review. Midwest Nursing Research Society. Poster
2. 2023, **Cho YE**, Kim J, Vorn R, Baik WH, Park H, Yun S, Kim HS, Cashion AK, Gill J, Koo BN, Lee H. Extracellular Vesicle MicroRNAs as Predictive Biomarkers in Postoperative Delirium after Spine Surgery. Midwest Nursing Research Society, Des Moines. 20x20 Presentation (Oral)
3. 2022, Lee D, Pavlovic M, **Cho YE**, and Kim JS, Investigating the roles of exosomes in cellular toxicity induced by copper oxide nanoparticles, Central States Chapter of the Society of Toxicology (CSSOT), Kansas. Poster
4. 2022, **Cho YE**, Characteristics of Extracellular Vesicle miRNAs in the Breast Milk, Midwest Nursing Research Society, Chicago. 20x20 Presentation (Oral)
5. 2021, **Cho YE**, *Extracellular Vesicles in Breast Milk; mediators between obese mother and children*, Midwest Nursing Research Society, Virtual Conference. Poster

- 2018, **Cho YE**, *Single cell clustering of PBMCs by using ddSeq technology*. Molecular Biology in Single Cells Symposium, NIH, Bethesda, MD. Poster

Local

- 2021 **Cho YE**, *Changes in circulating miRNA profiles after dietary interventions*. Presented at the 6th Annual University of Iowa Nursing Recognition Day, Iowa City, IA.
- 2021 **Cho YE**, *Breast milk Extracellular Vesicles, a mediator between mothers and children*. Presented at 2021 DRC Retreat at Levitt Center, Iowa City, IA

SERVICE

Editorial and Peer Review Service

- 2022- present Associate Editor of *Frontiers in Cardiovascular medicine*
 2021- present Reviewer of *Nutrition*
 2021- present Reviewer of *International Journal of Molecular Sciences*
 2020- present Reviewer of *Frontiers in Physiology, section Vascular Physiology*

Membership

- 2023- present Early Career Membership; American Association of Extracellular Vesicles
 2021- present Professional Member; American Heart Association
 2020- present Midwest Nursing Research Society; RIG- Physiology, Behavior, Genomics, & Society
 2019- present Member of the Fraternal Order of Eagles Diabetes Research Center in University of Iowa Carver College of Medicine
 2017- present International Society of Nurses in Genetics
 2021- present Korean-American Scientists and Engineers Association (KSEA)
 2013-2014 Trainee membership; American Heart Association

Professional Service

- 2022- present International Society of Nurses in Genetics, Research committee
 2022- present American Heart Association, Volunteer Peer Reviewer
 2020- present Midwest Nursing Research Society; RIG- Physiology, Behavior, Genomics, & Society Abstract Reviewer
 2017- 2020 International Society of Nurses in Genetics, Communication committee
 1999 Student Representative in International Council of Nursing (London, UK)

Collegiate Service

- 2023-present U of Iowa College of Nursing, IT Committee
 2023-present U of Iowa College of Nursing, Transcultural Nursing & Global Health SIG
 2022 U of Iowa College of Medicine, Fraternal Order of Eagles Diabetes Research Center (FOEDRC), DRC Pilot & Feasibility Grant Reviewer
 2022 U of Iowa College of Public Health, Environmental Health Sciences Research Center (EHSRC), Pilot Grant Reviewer
 2022 U of Iowa College of Nursing, Faculty Awards Reviewer
 2020-present U of Iowa College of Nursing, BSN Admissions Committee
 2020-present Center Associate, Center for Advancing Multimorbidity Science: Profiling risk

and symptom expression to develop customized therapies for adults with multiple chronic conditions (CAMS, 1 P20 NR018081-01, University of Iowa, College of Nursing

2020 U of Iowa College of Nursing, Nursing Honor Program Reviewer

TEACHING

Instructional Activities

(Note: * indicates team-teaching courses)

Courses

9/2021-present DNP: Doctor of Nursing Practice Project I-IV (graduate course)
9/2021-present End of Life Care for Adults & Families (undergraduate course)
1/2023-8/2023 Global Health Nursing (undergraduate course)
2/2021-present Invited lecturer: Biological Markers in Health Research (graduate course)
9/2020-12/2021 RN-BSN: Pathology* (undergraduate course)
9/2020-5/2022 RN-BSN: Intro in Human Genetics* (undergraduate course)
9/2010-2/2011 Patho-physiology* (undergraduate course, appx. 100 students): Adjunct instructor in Seoul National University College of Nursing: Developed lectures on;
○ Disorders of Hematology System, Cardiovascular System, Respiratory System, Gastrointestinal System, and Urinary System
○ Fluid, Electrolyte & Acid-Base Homeostasis
3/2005-2/2011 Physiology labs* (undergraduate course, appx. 100 medical school students): Teaching assistant in Yonsei University College of Medicine
○ Cellular physiology
○ Respiratory physiology
○ Renal physiology
○ Neuromuscular physiology
○ Cardiovascular physiology

Mentoring

2023-present Joseph Yun (Walter Johnson High School, big data analysis)
2023 Luhmann, Emma (College of Medicine Graduate Research Assistant, Career counseling)
2023-present Jaewon Bae (College of Nursing, PhD dissertation committee)
2023-present Meina Zhang (College of Nursing, F99K00 application mentor)
2022-present Yuying Zhao (College of Medicine Graduate School, vascular research and extracellular vesicle research)
2022-present Dongkeun Lee (College of Public Health, Postdoctoral Fellow, extracellular vesicle research)
2021-present Chen Shaoshuai (College of Nursing Graduate Research Assistant)
2020-2022 Janhavi Narayanaswamy (MS. Volunteer in the lab)
2019-2022 Young Scientist Program, The University of Iowa, College of Nursing (Gracie Torres, Alaria Harken and Reegan Schmidt)
2017-2019 Mentoring for summer interns and post-baccalaureates in NINR
○ Taylor Brewer (Summer student, 2018); Exosome research

- Sara Mithani (Graduate Partnership Program fellow, 2017); TBI research with big data analysis
 - Tamar Rodney (Research Residence, 2017 and currently assistant professor at The Johns Hopkins University); TBI research with various lab skills
- 2014 Summer Science Camp lecturer in Hanul Family Alliance (Chicago, IL); Microbiology overview

Invited talks

- 12/2021 Environmental Health Sciences Research Center Monthly Seminar “Breast milk Extracellular Vesicles, a mediator between mothers and children”
- 12/2021 Fraternal Order of Eagles Diabetes Research Center Seminar “Breast milk Extracellular Vesicles, a mediator between mothers and children”
- 5/2021 NINR’s NEWS meeting, “The Single Cell RNA-seq in Mild Stroke Patients”
- 10/2020 Chonnam University College of Nursing in South Korea; Global Nursing Leadership project for Undergraduate Students
- 11/2019 Dr. Gray Pierce (Department of Health and Human Physiology) Lab Meeting “Extracellular Vesicles (EVs); potential biomarkers in CVDs”

SKILLS and TRAINING

- 2023 Grant Writing Coaching Session (Dr. David R Drake, College of Dentistry)
- 2023 The National Center for Faculty Development and Diversity Faculty Success Program (Weekly meeting for 12 weeks)
- 2021 Ingenuity Pathway Analysis (IPA) virtual training
- 2020 An Institute for Nursing Leadership Critical Conversation on Health Equity and Racism and In-Depth Dialogues (10-29-2020)
- 2018 Exosome Workshop: Exosomes; Principles, Methods and Applications (4 Day training workshop from BioTrac)
- 2018 Management Bootcamp (NIH Office of Intramural Training & Education)
- 2017 Leadership Training: Work Place Dynamics Series (NIH Office of Intramural Training & Education)
- 2017 Next Generation Sequencing 3 Day Training Workshop; BioTrac and Yotta Biomed, LLC
- Computer skills: Proficient in Excel, PowerPoint, Word, and SPSS, Experience using: IPA and Partek