

CURRICULUM VITAE
JI YOUN YOO, R.N., Ph.D.

I. GENERAL INFORMATION

Work Address:

University of Tennessee, Knoxville
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II. EDUCATION

<u>Institution</u>	<u>Location</u>	<u>Degree</u>	<u>Year</u>	<u>Major/Specialty</u>
Kyunghee University School of Medicine	Seoul, Republic of Korea	Doctor of Philosophy: Biomedical Science	2016	Molecular and Microbiology
London School of Business and Finance	London, U.K.	Postgraduate certificate: Management and Leadership	2012	Project management
Kingston University	London, U.K.	Master of Science: Applied Exercise for Health	2011	Chronic disease and physical activities
Sahmyook Health University	Seoul, Republic of Korea	Bachelor of Science: Nursing	2007	Nursing

III. LICENSURE AND CERTIFICATION

Registered Nurse: Tennessee License (# 258035)	Expires 11/2023
Nurse Licensure Compact (NLC):	Expires 11/2023
Registered Nurse: Republic of Korea (#235395)	Expires 03/2025
Phlebotomy Certificate: Clinical Solution, Florida (#50-12426)	Expires 03/2022
CPR & First Aid - (BLS): American Heart Association	Expires 03/2023

IV. PROFESSIONAL EXPERIENCE

<u>Institution</u>	<u>Location</u>	<u>Title</u>	<u>Date</u>
University of Tennessee College of Nursing	Knoxville, Tennessee	Assistant Professor	2021-present
University of South Florida College of Nursing	Tampa, Florida	Post-doctoral fellow	2019 – 2021
University of South Florida Cell, Molecular and Microbiology department	Tampa, Florida	Post-doctoral fellow	2018 – 2019
Doowon Technical University	Seoul, South Korea	Adjunct Professor	2016 – 2018
Hongik General Hospital	Seoul, South Korea	Staff Nurse	2016 – 2018
Kangdong Kyung Hee Hospital	Seoul, South Korea	Staff Nurse	2015 – 2016
Medical Express Clinic	London, U.K.	Healthcare provider	2012 – 2013
St Luke’s Hospital	Oxford, U.K.	Healthcare provider	2008 – 2010

V. PUBLICATIONS

Refereed Publications

Zhang F, Aschenbrenner D, **Yoo JY**, Coker OO, and Zuhe T. The gut mycobiome in health, disease and clinical applications in association with the gut bacterial microbiome assembly. *Lancet Microbe*. 2022, Jan; Under revision.

Yoo JY, Lata S, Adams JH and Groer M. A pilot study: Validation of Dried Blood Spots (DBS) to assess SARS-CoV2 IgG antibody immunoassays in Hispanic pregnant women. *Biomedical journal*. 2021 Dec; Under revision.

Yoo JY, Sniffen S, Percy KM, Pallaval VB, Chidipi BB. Gut dysbiosis and immune system in atherosclerotic cardiovascular disease (ACVD). *Microorganisms*. 2022, 10(1), 108.

Mutka T, Seyfang A, **Yoo JY**, Dutra SO, Ji M, Louis-Jacques A, Duffy A, Bruder K, Prescott S, Kim K, Groer M. Comparison of adverse pregnancy outcomes in Hispanic women with Latent Toxoplasmosis. *Open Forum Infectious Diseases*. 2021 Dec; Accepted.

Dutra S, Gordon J, Shaffer E, Miller E, Harville C, **Yoo JY**, Sarkar A, Louis-Jacques A, Ji M, D’Agata A, Groer ME. An Exploratory Principal Factor Analysis of Very Low Birth Weight Clinical Data and Development-Behavioral Outcomes at 4 years of age. *Pediatric Nursing*. 2021 Mar; Accepted.

Gibbons J, **Yoo JY**, Mutka T, Groer M, Ho TT. A Pilot Study: To Establish an In Vitro Model To Study Premature Intestinal Epithelium and Gut Microbiota Interactions. *mSphere*. 2021 Oct 13;6(5): e00806-21.

Yoo JY, Dutra SV, Fanfan D, Sniffen S, Wang H, Siddiqui J, Song HS, Bang SH, Kim DE, Kim S, Groer

M. Comparative analysis of COVID-19 guidelines from six countries: a qualitative study on the US, China, South Korea, the UK, Brazil, and Haiti. *BMC public health*. 2020 Dec;20(1):1-6.

Yoo JY, Groer M, Dutra SV, Sarkar A, McSkimming DI. Gut microbiota and immune system interactions. *Microorganisms*. 2020 Oct;8(10):1587.

Sarkar A, **Yoo JY**, Valeria Ozorio Dutra S, Morgan KH, Groer M. The association between early-life gut microbiota and long-term health and diseases. *Journal of Clinical Medicine*. 2021 Jan;10(3):459.

Groer ME, Miller EM, Sarkar A, Dishaw LJ, Dutra S, **Yoo JY**, Morgan K, Ji M, Ho T.B. Predicted Metabolic Pathway Distributions in Stool Bacteria in Very-Low-Birth-Weight Infants: Potential Relationships with NICU Faltered Growth. *Nutrients*. 2020 May 8;12(5): E1345

Groer ME, Miller EM, D'Agata A, Ho T.B, Dutra S, **Yoo JY**, Yee AL, Gilbert JA, and Dishaw LJ. Contributors to Dysbiosis in Very Low Birth Weight Infants. *JOGNN*. 2020; 49(3):232-24.

Yoo JY, Kim SS. Probiotics and Prebiotics: Present Status and Future Perspectives on Metabolic Disorders. *Nutrients*. 2016; 8(3):173.

Shahid M, Choi TG, Nguyen MN, Matondo A, Jo YH, **Yoo JY**, Nguyen NN, Yun HR, Kim J, Akter S, Kang I, Ha J, Maeng CH, Kim SY, Lee JS, Kim J, Kim SS. An 8-Gene Signature for Prediction of Prognosis and Chemoresponse in Non-Small Cell Lung Cancer. *Oncotarget*. 2016; 27;7(52):86561-86572.

Shahid M, Cho KM, Nguyen MN, Choi TG, Jo YH, Aryal SN, **Yoo JY**, Yun HR, Lee JW, Eun YG, Lee JS, Kang I, Ha J, Yoon HJ, Kim SY, Kim SS. Prognostic value and their clinical implication of 89-gene signature in glioma. *Oncotarget*. 2016; 9;7(32):51237-51250.

Nguyen MN, Choi TG, Nguyen DT, Kim JH, Jo, YH, Shahid M, Akter S, Aryal SN, **Yoo JY**, Ahn YJ, Cho KM, Lee JS, Choe W, Kang I, Ha, J, Kim SS. CRC-113 gene expression signature for predicting prognosis in patients with colorectal cancer. *Oncotarget*. 2015; 6(31):31674-31692.

Akter S, Choi TG, Nguyen MN, Matondo A, Kim JH, Jo YH, Jo A, Shahid M, Jun DY, **Yoo JY**, Nguyen NN, Seo S, Ali L, Lee J, Yoon K, Choe W, Kang I, Ha J, Ki, J, Kim SS. Prognostic value of a 92-probe signature in breast cancer. *Oncotarget*. 2015; 6(17):15662-15680.

Other Published Materials and Creative Works

Yoo JY, Yoon JS. (2017) *Nursing Health Assessment*. Seoul: Soodesign.

VI. GRANTS AND CONTRACTS

Internal

University of Tennessee, The Center for Global Engagement, Global Catalyst Grants Program.
Occupational hazards leading to gut dysbiosis and increased risk of colorectal cancer among
firefighters. **Yoo JY (PI)**, 2021. \$30,000. 1year. Awarded.

University of South Florida, Postdoctoral association, Travel funding programs for poster presentation.
The detection of cytokines in Very-Low-Birth-Weight infants using Dried Blood Spots. **Yoo
JY, (PI)**, 2020. \$500. (All travel were canceled due to COVID-19, so virtual conference fee
was covered). Awarded.

Kyung Hee University, Chancellor's Scholarship. Ph.D. programs. **Yoo JY**, 2012-2016. Full tuition
fees and living cost were funded.

External

Dongbu Cultural Foundation, Dongbu Cultural Foundation grant. Combined bacteria metabolites
(CBm) products ameliorate inflammatory bowel disease symptoms in DSS- induced
mouse colitis. Kim, SS and **Yoo JY (Co-PI)**, 2015. \$50,000, 1 year, Awarded.

National Fire Research Institute of Koran (NFRIK), Occupational hazards and health outcomes
among firefighters. **Yoo JY (Co-PI)**, **Song HS and Bang SH.**, 2021. Intent letter
submitted.

Grants Not Funded

University of Tennessee, Graduate Office, Student/Faculty Research Award. COVID-19 vaccine
hesitancy and the effect of evidence-based education programs in college students. **Yoo JY
(Co-PI)** and Kuganathan PD, 2020. \$12,000. 1year. Not funded.

University of South Florida, USF Initiative on Microbiomes Research Awards. **Yoo JY. (Co-PI)** and
McSkimming D, \$35,000. 2years. Not funded.

VII. RESEARCH AND CONSULTING ACTIVITIES

VIII. PRESENTATIONS

Invited Speaker

USF Ph.D. course: "Molecular biology and behavior", Spring, 2021(Tampa, Florida)
A guest lecturer - Gut microbiome and host immune functions

USF Ph.D. course: "Biobehavioral and health", Fall, 2019 (Tampa, Florida)
A guest lecturer – Human gut microbiome and immune system

USF Microbiome, Immunology, and Infection Mitigation Hub – May 2020 (Tampa, Florida)
Oral presentation: Occupational microbiome dysbiosis in US firefighters

Kyung Hee Medical School Seminar – December 2019 (Seoul, South Korea)
Oral presentation: Very Low Birth Weight (VLBW) Infants and Gut dysbiosis

International

Yoo, JY., Sarkar, A., Dutra, SO., Morgan, K., Groer, MG. (2022). A pilot study: Cytokine patterns and gut microbiota in children born with Very-Low- Birth-Weight. World of Microbiome, Austria, (Poster)

Yoo, JY., Lata, S., Sarkar, A., Adams, J., Dutra, SO., Morgan, K., Groer, MG. (2021). Dried Blood Spots (DBS) assay to detect SARS-CoV2 IgG antibodies in Hispanic pregnancy women. Keystone symposia, Virtual, (Poster and Abstract)

Sarkar, A., **Yoo, JY.**, Lim, J., Dutra, S., Dishaw, L., Kane, B., Groer, MG., Miller, E. (2021). Identification of Bacterial Metabolic Abundances in the Gut Microbiome of Preterm Infants. Reproductive Sciences, Germany, (Poster)

Yoo, JY., Sarkar, A., Dutra, SO., Morgan, K., Groer, MG. (2019). Cytokines and metabolites differences between term and preterm delivery. KSMCB (Korean Society for Molecular and Cellular Biology), South Korea, (Poster)

Akter, US., Dutra, S., **Yoo, JY.**, Sarkar, A., Dishaw, L., Groer, MG. (2019). Very Low Birth Weight (VLBW) Infants Gut Microbiome Richness and Diversity Association with Behavior at 4 Years of Age. World of Microbiome: Pregnancy, Birth & Infancy, Italy, (Poster)

Ho, T., Gibbons J., **Yoo, JY.**, Muka, T., Groer, MG. (2019). Proteobacteria to Firmicutes Correlated with Epithelial Inflammation and Adhesion Responses. World of Microbiome: Pregnancy, Birth & Infancy, Italy, (Poster)

Yoo, JY., Kim, SS. (2014). Bacteria metabolites products ameliorate inflammatory bowel disease symptoms in DSS- induced mouse colitis. KSBMB (Korean Society for Biochemistry and Molecular Biology), South Korea, (Poster)

Yoo, JY., Kim, SS. (2014). Mitochondria-targeted antioxidant MitoQ improves inflammatory bowel disease via suppressing inflammatory cytokines. FASEB (Federation of American Societies for Experimental Biology), Portugal, (Poster)

National

Dutra, S., **Yoo, JY.**, Sarkar, A., Lim, J., Dishaw, L., Kane, B., Groer, MG., Miller, E. (2020). Relationships of the VLBW Gut Microbiome with Behavior and Development at 2 and 4 years of age. The 34th Annual Gravens Conference, Florida, (Poster)

Welsch, J., **Yoo, JY.**, Groer, MG., Baker BJ. (2020). Simultaneous Quantification of Five Short Chain Fatty Acids in Preterm Infant Stool by Liquid Chromatography Tandem Mass Spectrometry. USF Castle Conference, Florida, (Poster)

IX. OTHER SCHOLARLY ACTIVITIES

Organization and Activity

Dates

Oncology Nursing Society, USA	2020-present
Sigma Theta Tau International Honor Society of Nursing, USA	2020-present
National Postdoctoral Association, USA	2018 – 2021
Korean Society of Nursing Sciences, South Korea	2016-present
Korean Society of Molecular and Cellular Biology, South Korea	2014-present
Korean Nurses Association, South Korea	2007-present
Nutrients Manuscript Reviewer	2019-present
Foods Manuscript Reviewer	2020-present

Molecular biology reports (Springer) Manuscript Reviewer	2020-present
Microorganisms Manuscript Reviewer	2020-present

X. PROFESSIONAL APPOINTMENTS AND OFFICES

<u>College Committee and Role</u>	<u>Dates</u>
Advisor to BSN students	2021-present
<u>University Committee and Role</u>	
Provost’s Junior Faculty Fellows member	2021-present
<u>Community Organization and Role</u>	
Red Cross, USA, Healthcare Volunteer	2020-present
Raphael Clinic, South Korea, Healthcare Volunteer	2016 – 2019
Cancer Research UK, London, U.K., Healthcare Volunteer	2013 – 2014
<u>Professional Service Organization and Role</u>	
Hospital Nursing Education, South Korea, Specialist Educator	2018 – 2014

XI. HONORS AND AWARDS

<u>Organization and Award or Honor</u>	<u>Dates</u>
The Best Nurse, Kangdong Kyung Hee Hospital, Nominated by patients, South Korea	2016

XII. CONTINUING EDUCATION (Most recent 5 years)

<u>Organization and Type of Learning Experience</u>	<u>Dates</u>
Keystone Symposia, Maternal-Fetal Newborn Immunity, Virtual conference.	October, 2021
Bioinformatics workshop, ISB	October, 2021
R for Research Scientists, Bio-Trac	January, 2020
USF Health Faculty Professional Development-Improve Your Study Design	February, 2020
Microbiome analysis training, USF Genomic Center	November, 2019
RNA sequencing training, USF Genomic Center	September, 2019

XIII. TEACHING HISTORY

	<u>Dates</u>
NURS 319 Pathophysiology	2021-present
Health Assessment	2016 – 2017

Human Anatomy

2016 – 2017

Pathology

2017 – 2017

Pharmacology

2017 – 2017

