Taichi Goto
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EDUCATION

Degree	Institution	Date
PhD – Health Sciences and Nursing	The University of Tokyo, Tokyo, Japan Submajor: Graduate Program of Global Leadership Initiative for an Age-Friendly Society, The University of Tokyo, Japan	2018
Master of Health Sciences and Nursing	The University of Tokyo, Tokyo, Japan	2015
Bachelor of Nursing	Chiba University, Chiba, Japan	2010

LICENSURE & CERTIFICATION

Registered Nurse (Texas)	# 1185417	Active through Dec 2025
Registered Nurse (New York)	# 810461	Active thtough Nov 2026
Registered Nurse (Japan)	# 1524955	Apr 2010–Present
Public Health Nurse (Japan)	# 173396	Apr 2010–Present
Basic Life Support Provider		Active through Sep 2026

PROFESSIONAL EXPERIENCE

Institution	Position Title	Inclusive Dates
Chiba University Hospital, Chiba, Japan	Registered Nurse	Apr 2010–Mar 2013
National Institute of Nursing Research, National Institutes of Health, Bethesda, MD	Special Volunteer	Mar 2017–May 2017
National Institute of Nursing Research, National Institutes of Health, Bethesda, MD	Visiting Fellow	Apr 2018–Mar 2021

University of Maryland School of Nursing, Baltimore, MD	Post-doctoral Fellow	Mar 2021–May 2022
National Institute of Nursing Research, National Institutes of Health, Bethesda, MD	Research Fellow	May 2022–May 2025
UTHealth Cizik School of Nursing, Houston, TX	Assistant Professor, Tenure Track Department of Research	May 2025–Present

HONORS & AWARDS

Award	Awarding Organization	Date
SICE System Integration 2014 Presentation Award	IEEE/SICE	2014
The 23rd Japanese Society of Wound, Ostomy & Continence Management Chairman's Award	Japanese Society of Wound, Ostomy & Continence Management	2014
The 9th Asia Pacific Enterostomal Therapy Nurse Association Conference Excellent Presentation Award	Asia Pacific Enterostomal Therapy Nurse Association	2021
The 18th Annual Pain Consortium Symposium on Advances in Pain Research: Resilience and Pathways to Recovery Mitchell Max Award Candidate	NIH Pain Consortium Symposium	2023
NINR Director's Award Group Innovation Award	National Institute of Nursing Research	2023

GRANTS

Research Grants and Fellowships

Development of an Objective Assessment Method for Pain Associated with Chronic Wounds, Japanese Society of Wound, Ostomy & Continence Management, **Principal Investigator**, $3,700, May 2014–May 2015.

Development of Objective Assessment Based on the Elucidation of Novel Mechanisms of Wound Pain Generation in Pressure Ulcers, Japan Society of the Promotion of Science, **Principal Investigator**, $62,000, Apr 2016–Mar 2018.

The Relationship Between Locally Synthesized Glucocorticoids in Wounds Due to Psychological Stress, Pain Hypersensitivity, and Cognitive Function, The Nakatomi Foundation, **Principal Investigator**, $13,900, Apr 2018–Mar 2019.

Detecting a chronic wound pain biomarker and unraveling its mechanism based on the comprehensive analysis of wound exudate, Japan Society of the Promotion of Science, **Principal Investigator**, $111,400, Apr 2018–Mar 2020.

University of Maryland School of Nursing Intramural Research Fund, **Principal Investigator**, $50,000, Mar 2021–May 2022.

Travel Grants

Examination of the accuracy of visual inspection for screening tinea pedis and tinea unguium in aged care facility residents, The Naito Foundation, **Principal Investigator**, $1,250, Oct 2015.

PUBLICATIONS

1. **Goto, T.**, Tanaka, Y.L., & Fujita, M. (2012). Biological and physiological effects on breathing exercises before and after cardiac surgery. Japanese Journal of Nursing Art and Science, 11(3), 19–27.
2. **Goto, T.**, Nakagami, G., Tamai, N., Kitamura, A., Naito, A., Hirokawa, M., Shimokawa, C., & Sanada, H. (2016). Nerve growth factor in exudate from venous leg ulcers is associated with inflammation along with temperature increase assessed by infrared thermography. Journal of Japanese Society of Wound, Ostomy, and Continence Management, 20(3), 310–318.
3. **Goto, T.**, Naito, A., Tamai, N., Nakagami, G., Mo, M., & Sanada, H. (2014). Objective evaluation for venous leg ulcer-related nociceptive pain using thermography. Chronic Wound Care Management and Research, 1, 23–30.
4. Sanada, H., Nakagami, G., Takehara, K., **Goto, T.**, Ishii, N., Yoshida, S., Ryu, M., & Tsunemi, Y. (2014). Antifungal effect of non-woven textiles containing polyhexamethylene biguanide with sophorolipid: A potential method for tinea pedis prevention. Healthcare, 2, 183–191.
5. Kanazawa, T., Nakagami, G., **Goto, T.**, Noguchi, H., Oe, M., Hayashi, A., Sasaki, S., & Sanada, H. (2016). Use of smartphone-attached mobile thermography assessing subclinical inflammation: A pilot study. Journal of Wound Care, 25, 177–182.
6. Kanazawa, T., Kitamura, A., Nakagami, G., **Goto, T.**, Miyagaki, T., Hayashi, A., Sasaki, S., Mugita, Y., Iizaka, S., & Sanada, H. (2016). Lower temperature at the wound edge detected by thermography predicts undermining development in pressure ulcers: A pilot study. International Wound Journal, 13(4), 454–460.
7. **Goto, T.**, Tamai, N., Nakagami, G., Kitamura, A., Naito, A., Hirokawa, M., Shimokawa, C., Takahashi, K., Umemoto, J., & Sanada, H. (2016). Can wound exudate from venous leg ulcers measure wound pain status?: A pilot study. PLoS One, 11(12), e0167478. https://doi.org/10.1371/journal.pone.0167478
8. **Goto, T.**, Nakagami, G., Takehara, K., Nakamura, T., Kawashima, M., Tsunemi, Y., & Sanada, H. (2017). Examining the accuracy of visual diagnosis of tinea pedis and tinea unguium in aged care facilities. Journal of Wound Care, 26(4), 179–183.

9. **Goto, T.**, Nakagami, G., Nakai, A., Noyori, S., Sasaki, S., Hayashi, C., Miyagaki, T., Akamata, K., & Sanada, H. (2017). Utility of a three-dimensional wound measurement device in pressure ulcers. Chronic Wound Care Management and Research, 4, 129–133.
10. **Goto, T.**, Nakagami, G., Minematsu, T., Tomida, S., Shinoda, M., Iwata, K., & Sanada, H. (2019). Topically injected adrenocorticotropic hormone induces mechanical hypersensitivity on a full-thickness cutaneous wound model in rats. Experimental Dermatology, 28(9), 1010–1016.
11. **Goto, T.**, Nakagami, G., Minematsu, T., Shinoda, M., & Sanada, H. (2019). Measurement of mechanical withdrawal threshold on full-thickness cutaneous wounds in rats using the von Frey test. Journal of Wound Care, 28(11), 762–772.
12. **Goto, T.**, & Saligan, L. N. (2020). Exploring wound pain and wound healing biomarkers from wound exudate: A scoping review. Journal of Wound Ostomy Continence Nursing, 47(6), 559–568.
13. Domenichiello, A. F., Sapio, M. R., Loydpierson, A. J., Maric, D., **Goto, T.**, Horowitz, M. S., Keyes, G. S., Yuan, Z. X., Majchrzak-Hong, S. F., Mannes, A. J., Iadarola, M. J., & Ramsden, C. E. (2021). Molecular pathways linking oxylipins to nociception in rats. Journal of Pain, 22(3), 275–299.
14. **Goto, T.**, Sapio, M. R., Maric, D., Robinson, J. M., Saligan, L. N., Mannes, A. J., & Iadarola, M. J. (2021). Longitudinal transcriptomic profiling in carrageenan-induced rat hind paw peripheral inflammation and hyperalgesia reveals progressive recruitment of innate immune system components. Journal of Pain, 22(3), 322–343.
15. Sapio, M. R., Kim, J. J., Loydpierson, A. J., Maric, D., **Goto, T.**, Vazquez, F. A., Dougherty, M. K., Narasimhan, R., Muhly, W. T., Iadarola, M. J., & Mannes, A. J. (2021). The persistent pain transcriptome: Identification of cells and molecules activated by hyperalgesia. Journal of Pain, 22(10), 1146–1179.
16. Astrada, A., Nakagami, G., Minematsu, T., **Goto, T.**, Kitamura, A., & Mugita, Y. (2021). Concurrent validity of biofilm detection by wound blotting on hard-to-heal wounds. Journal of Wound Care, 30(Sup4), S4–S13.
17. **Goto, T.**, Sapio, M. R., Maric, D., Robinson, J. M., Domenichiello, A. F., Saligan, L. N., Mannes, A. J., & Iadarola, M. J. (2021). Longitudinal peripheral tissue RNA-seq transcriptomic profiling, hyperalgesia, and wound healing in the rat plantar surgical incision model. FASEB Journal, 35(10), e21852.
18. Mocci, E., **Goto, T.**, Chen, J., Ament, S., Traub, R. J., & Dorsey, S. G. (2022). Early and late transcriptional changes in blood, neural, and colon tissues in rat models of stress-induced and comorbid pain hypersensitivity reveal regulatory roles in neurological disease. Frontiers in Pain Research, 3, 886042.
19. Shikuri, Y., Tanoue, H., Imai, H., Nakamura, H., Yamaguchi, F., **Goto, T.**, Kido, Y., Tajika, A., Sawada, H., Ishida, Y., & Yoshinaga, N. (2022). Psychosocial interventions for community-dwelling individuals with schizophrenia: Study protocol for a systematic review and meta-analysis. BMJ Open, 12(4), e057286.
20. Ma, W., Sapio, M., Manalo, A. P., Maric, D., Dougherty, M. K., **Goto, T.**, Mannes, A. J., & Iadarola, M. (2022). Anatomical analysis of transient receptor potential vanilloid receptor 1 (Trpv1+) and mu-opioid receptor (Oprm1+) coexpression in rat dorsal root ganglion neurons. Frontiers in Molecular Neuroscience, 15, 926596.

21. **Goto, T.**, Wang, C., Kwiat, C., Nguyen, C., & Saligan, L. (2023). Community-based wound care programs for unhoused individuals. Journal of Epidemiology and Global Health, 13(4), 604–614.
22. Rio, C. J., **Goto, T.**, Hsiao, C. P., Ross, A. L. R., & Saligan, L. N. (2023). Family wellbeing and sexual health of patients receiving treatment for prostate cancer. Cancer Management and Research, 15, 1197–1206. https://doi.org/10.2147/CMAR.S421951
23. **Goto, T.**, Saligan, L. N., Juneau, P., Gonsalves, S. G., Rio, C. J., Graves, L. Y., & Von Ah, D. (2024). Characterization of cancer survivors clustered by subjective and objective cognitive function scores. Cancer Medicine, 13(12), e7255.
24. **Goto, T.**, Saligan, L. (2024). Mechanistic insights into behavioral clusters associated with cancer-related systemic inflammatory response. Current Opinion in Supportive and Palliative Care, 18(3), 161–167.
25. **Goto, T.**, Saligan, L. N., Li, X., Xiang, L., Kwiat, C., Nguyen, C., Crouch, A., & Von Ah, D. (2024). Associations of Brain-Derived Neurotrophic Factor rs6265 polymorphism and cognitive function in breast cancer survivors from a cross-sectional study. Cancer Medicine, 13(2), e6975.
26. **Goto, T.**, Von Ah, D., Li, X., Xiang, L., Kwiat, C., Nguyen, C., Hsiao, C. P., & Saligan, L. (2024). Brain-Derived Neurotrophic Factor rs6265 polymorphism is associated with severe cancer-related fatigue and neuropathic pain in female cancer survivors. Journal of Cancer Survivorship, 18(6), 1851–1860.
27. Hsiao, C. P., **Goto, T.**, Von Ah, D., & Saligan, L. N. (2024). Cancer-related cognitive impairment is associated with APOE rs7412 and BDNF rs6265 in breast cancer survivors. Seminars in Oncology Nursing, 40(5), 151721.

PRESENTATIONS

International

1. **Goto, T.**, Tamai, N., Nakagami, G., Naito, A., Hirokawa, M., Amemiya, A., Kitamura, A., Koyano, Y., Sanada, H. (May 2015). Nerve growth factor and S100A8/A9 in exudates from venous leg ulcers are associated with wound pain status. EWMA 2015, London, UK.
2. **Goto, T.**, Nakagami, G., Naresh, R., Minematsu, T., Sanada, H. (Jun 2015). Different effects of various N-acyl-homoserine lactones on the healing process of full-thickness wounds in diabetic rats. TIWCC 2015, Taiwan.
3. Takehara, K., Nakagami, G., **Goto, T.**, Tsunemi, Y., Ikeda, M., Sanada, H., Takemura, Y. (Oct 2015). Screening of plantar tinea pedis by morphological characteristics of scale in aged care facility residents. IAGG 2015, Chiang Mai, Thailand.
4. **Goto, T.**, Nakagami, G., Takehara, K., Nakamura, T., Kawashima, M., Tsunemi, Y., Sanada, H. (Oct 2015). Examination of the accuracy of visual inspection for screening tinea pedis and tinea unguium in aged care facility residents. IAGG 2015, Chiang Mai, Thailand.
5. **Goto, T.**, Nakagami, G., Tamai, N., Kitamura, A., Naito, A., Hirokawa, M., Shimokawa, C., Sanada, H. (Mar 2016). The relationship between wound pain and general and

dermatologic quality of life in venous leg ulcer patients. The 19th East Asia Forum of Nursing Scholars, Chiba, Japan.

6. Minematsu, T., Nakagami, G., Kitamura, A., **Goto, T.**, Sanada, H. (Sep 2016). Evaluation of skin-barrier function by skin blotting. 5th Congress of WUWHS, Florence, Italy.
7. **Goto, T.**, Nakagami, G., Kanazawa, T., Minematsu, T., Sanada, H. (Sep 2016). Effects of acylated homoserine lactone family members on late-stage full-thickness cutaneous wounds in diabetic model rats. 5th Congress of WUWHS, Florence, Italy.
8. **Goto, T.**, Nakagami, G., Minematsu, T., Shinoda, M., Sanada, H. (Sep 2016). Establishment of a mechanical sensitivity measurement method for full-thickness cutaneous wounds made in the dorsal area in rats: a pilot study. The 16th World Congress on Pain, Kanagawa, Japan.
9. Miura, T., **Goto, T.**, Kaneko, K., Sumikawa, Y., Ishii, A., Doke, M., Suzuki, K., Okatani, T., Kubota, A., Zhang, M., Kinoshita, Y., Yoshinaga, H., Tsuruta, M., Kominami, Y., Nihei, M., Inoue, T., Kamata, M., Okata, J. (Oct 2016). Need and impressions of communication robots for seniors with slight physical and cognitive disabilities: Evaluation using system usability scale. 2016 IEEE International Conference on Systems, Man, and Cybernetics, Budapest, Hungary.
10. **Goto, T.**, Nakagami, G., Minematsu, T., Shinoda, M., Iwata, K., Sanada, H. (Nov 2016). Identifying a wound pain biomarker for non-communicative patients: applicability test of a pain evaluation method for rat wound model. The 3rd IARU Aging, Longevity and Health Graduate Student Conference, Tokyo, Japan.
11. Komatsu, R., Shinozaki, N., Nukina, S., Moriizumi, H., Yasuhara, A., Yang, N., Zhang, M., Kaneko, K., Kubota, A., Nakagawa, Y., Ziaratnia Sayyed, A., Yoshinaga, H., Doke, M., **Goto, T.**, Krishant, C., Ishii, A., Sumikawa, Y., Tsuruta, Y., Okatani, T., Kinoshita, Y., Suzuki, K., Arita, A., Kominami, Y., Tsuchiya, R., Miura, M., Nishino, A., Hiyama, A., Iijima, K., Tanaka, T., Okata, J. (Nov 2016). Needs assessments of support robots for seniors with mild physical and cognitive impairment. The 3rd IARU Aging, Longevity and Health Graduate Student Conference, Tokyo, Japan.
12. **Goto, T.**, Nakagami, G., Minematsu, T., Shinoda, M., Sanada, H. (Sep 2018). Topically injected adrenocorticotropic hormone induced mechanical hypersensitivity in full-thickness cutaneous wound in rats. The 17th World Congress on Pain, Boston, MA.
13. **Goto, T.**, Sapio, M.R., Saligan, L.N., Iadarola, M.J., Mannes, A.J. (Jul 2021). Transcriptomic profiles with inflammatory wound pain in a surgical incision rat model for wound pain biomarker development. The 9th Asia Pacific Enterostomal Therapy Nurse Association Conference, Tokyo, Japan (Online).
14. **Goto, T.** (Mar 2022). Exploring biomarkers associated with the trajectory of wound pain. World Union of Wound Healing Societies 2022 Hybrid Congress, Abu Dhabi, UAE (Online).
15. **Goto, T.**, Saligan, L., Nguyen, C., Kwiat, C., Von Ah, D. (Sep 2023). Female breast cancer survivors with a specific combination of single nucleotide polymorphisms for brain-derived neurotrophic factor and interleukin 6 experience severe neuropathic pain. NeuPSIG 2023 International Congress on Neuropathic Pain, Lisbon, Portugal.

16. **Goto, T.**, Corby, P., Lin, A., Lukens, J., Sonis, S., Saligan, L.N. (Aug 2024). Transcriptome in Head and Neck Cancer Patients: Enhanced Oral Care's Impact on Oral Mucositis Pain. IASP 2024 World Congress on Pain, Amsterdam, Netherlands.

National

1. **Goto, T.**, Sapio, M.R., Iadarola, M.J., Saligan, L.N., Mannes, A.J. (May 2019). Transcriptomic profiling of post-surgical or inflamed peripheral tissue models during mechanical and thermal hyperalgesia in rats. The Wound Healing Society 31st Annual Meeting, San Antonio, TX.
2. **Goto, T.**, Sapio, M.R., Iadarola, M.J., Saligan, L.N., Mannes, A.J. (May 2020). Secretomic profiles of wound pain biomarkers in surgical incision and peripheral inflammation rat models. The Wound Healing Society 32nd Annual Meeting, San Diego, CA.
3. **Goto, T.**, Xiang, L., Saligan, L.N., Von Ah, D. (Nov 2022). Association between Brain-Derived Neurotropic Factor rs6265 polymorphism and neuropathic pain in breast cancer survivors. Society for Neuroscience 2022, San Diego, CA, USA.
4. **Goto, T.**, Saligan, L., Juneau, P., Gonsalves, S., Rio, C., Graves, L., Von Ah, D. (Nov 2023). Phenotypic clusters of cancer-related cognitive impairment based on subjective reports and objective computerized cognitive function scores. Society for Neuroscience 2023, Washington, D.C., USA.
5. Li, E., Sapio, M.R., Domenichiello, A.F., Manalo, A., **Goto, T.**, Maric, D., Williams, T.S., Schrump, D.S., Davis, J.L., Hernandez, J.M., Blakely, A.M., Iadarola, M.J., Mannes, A.J. (Apr 2024). Mapping the nociceptive secretome from human incisional skin samples collected during long thoracic surgery. The 2024 USASP Annual Scientific Meeting, Seattle, USA. (J Pain. 2024;25(4)Suppl:28)
6. **Goto, T. (Invited to an oral presentation as one of the highest-scoring abstracts)**, Corby, P., Lin, A., Lukens, J., Sonis, S., Saligan, L.N. (May 2024). Transcriptomic predictors of oral mucositis severity in head and neck cancer patients. 2024 WHS Annual Meeting, Florida, USA.
7. **Additional 15 presentations** at Japanese national conferences

Regional/State

1. **Goto, T.**, Sapio, M.R., Mannes, A.J., Saligan, L.N., Iadarola, M.J. (Feb 2019). The first steps in pain signaling: addressing the trajectory of inflammatory wound pain through analysis of the transcriptomic profiles of peripheral inflammation and surgical incision rat models. The Opioid Crisis and the Future of Addiction and Pain Therapeutics: Opportunities, Tools, and Technologies Symposium, Bethesda, MD.
2. Kim, J.J., Sapio, M.R., Loydpierson, A.J., **Goto, T.**, Iadarola, M.J., Mannes, A.J. (May 2019). Transcriptomics of long-term ketamine and isoflurane anesthesia. 14th Annual NIH Pain Consortium Symposium, Bethesda, MD.
3. **Goto, T.**, Sapio, M.R., Saligan, L.N., Mannes, A.J., Iadarola, M.J. (May 2019). The transcriptomic profiles related to inflammatory wound pain in peripheral inflammation and surgical incision rat models for wound pain biomarker developing. 14th Annual NIH Pain Consortium Symposium, Bethesda, MD.

4. **Goto, T.**, Sapio, M.R., Iadarola, M.J., Saligan, L.N., Mannes, A.J. (Jun 2019). Transcriptomic profiling of post-surgical or inflamed peripheral tissue models during mechanical and thermal hyperalgesia in rats. Symptom Science Center: A Resource for Precision Health, Bethesda, MD.
5. **Goto, T.**, Sapio, M.R., Iadarola, M.J., Saligan, L.N., Mannes, A.J. (Sep 2019). Transcriptomic profiling of post-surgical or inflamed peripheral tissue models during mechanical and thermal hyperalgesia in rats. National Advisory Council for Nursing Research, Bethesda, MD.
6. Nguyen, C., **Goto, T.**, Saligan, L. (Apr 2023). Associations of Single Nucleotide Polymorphisms and Physical Function/Frailty Scores in Cancer Survivors. NIH Postdoc Poster Day.
7. Kwiat, C., **Goto, T.**, Saligan, L. (Apr 2023). Relationships of BDNF Single Nucleotide Polymorphisms and Perceived Stress in Cancer Survivors. NIH Postdoc Poster Day.
8. **Goto, T. (Invited Presentation, selected as a Mitchell Max Award Candidate)**, Von Ah, D., Li, X., Kwiat, C., Nguyen, C., Hsiao, C.-P., Saligan, L. (Jun 2023). Unveiling the link between BDNF rs6265 Polymorphism and Severe Neuropathic Pain in Female Cancer Survivors. NIH 18th Annual Pain Consortium Symposium, Bethesda, MD.
9. Gehling, G.M., **Goto, T.**, Saligan, L.N. (Aug 2023). Gene Predicting General and Mucositis-Specific Pain in Adults with Head and Neck Cancer using Transcriptomic Profiles. NIH Summer Poster Day, Maryland, USA.
10. Kwiat, C., **Goto, T.**, Saligan, L. (Sep 2023). Relationships of BDNF Single Nucleotide Polymorphisms and Perceived Stress in Cancer Survivors. NIH Research Festival.
11. Gehling, G.M., Barb, J.J., **Goto, T.**, Saligan, L.N., Corby, P. (Mar 2024). Gene Expression Profiling for Predicting General Pain in Adults with Head and Neck Cancer. Translation Research Symposium at the University of Florida, Florida, USA.
12. Leira, M.T., **Goto, T.**, Corby, P., Lin, A., Lukens, J., Sonis, S., Bačkonja, M., Saligan, L.N. (Aug 2024). Transcriptomic Profiling as a Predictor of Mucositis-Related Pain in Head and Neck Cancer Patients Undergoing Radiation Therapy. NIH Summer Poster Day, Maryland, USA.
13. Li, E., Sapio, M.R., Domenichiello, A.F., **Goto, T.**, Maric, D., Manalo, A.P., Williams, T.S., Schrump, D.S., Davis, J.L., Hernandez, J.M., Blakeley, A.M., Iadarola, M.J., Mannes, A.J. (Sep 2024). Deciphering the molecular transcriptome underlying nociceptive sensitization through human intraoperative tissue sampling. NIH Research Festival.
14. **Goto, T.**, Corby, P., Lin, A., Lukens, J., Sonis, S., Saligan, L.N. (Sep 2024). Transcriptomic and Cytokine Profiles Associated with General Pain Symptoms in Head and Neck Cancer Patients with Oral Mucositis Receiving Dental Prophylaxis and Oral Mucosal Deterging Intervention. NIH Research Festival.

PROFESSIONAL SERVICE

Professional Service (Professional organizations, Study Sections, etc. - past to current)

Organization	Role	Inclusive dates

Wound Healing Society Education Committee	Member	2022–Present

Professional Memberships

Organization	Role	Inclusive dates
Wound Healing Society	Member	2018-Present
International Association for the Study of Pain	Member	2016–Present

OPTIONAL APPENDICES

Courses Taught

1. **The University of Tokyo**, Career Development as a Young Nurse Scientist (Tokyo, Japan), Mar 2019
2. **Igaku-shoin Ltd. & Japan Academy of Nursing Science**, Career Development as a Young Nurse Scientist (Tokyo, Japan), Mar 2019
3. **World Union of Wound Healing Societies 2022**, Exploring Biomarkers Associated with the Trajectory of Wound Pain, Focus Session – Pain Management (Abu Dhabi, UAE), Mar 2022
4. **University of Miyazaki School of Nursing**, Principle of Nursing (Online), Jul 2022
5. **Florida State University College of Nursing**, Cell to Society – Training at NIH, Monthly Research Seminar Series (Online), Feb 2023
6. **Louisiana State University School of Nursing**, Function, Health, and Well-being: 'Decluttering' Patient Experiences, Biobehavioral Measurement – Biomarker and Animal Models (Online), Feb 2023
7. **Florida Atlantic University College of Nursing**, Function, Health, and Well-being: 'Decluttering' Patient Experiences, Biobehavioral Measurement – Biomarker and Animal Models (Online), Apr 2023
8. **National Center for Complementary and Integrative Health (NCCIH)**, Interactive Pain Lecture Series 2023 Spring, Feb 2023–Jun 2023
    a. Definitions of pain: biological significance of pain; nociceptive, nociplastic, and neuropathic pain (Feb 8)
    b. Peripheral mechanisms: transduction of injury and noxious stimulation, transmission, excitability, and sensitization (Mar 8)
    c. Pain measurement and assessment in humans (May 24)
    d. Pain measurement and assessment in animals, including chronic pain models (Jun 14)
9. **University of Miyazaki School of Nursing**, Principle of Nursing (Online), Jul 2023
10. **The University of Tokyo Graduate School of Medicine**, Special Lecture in Wound Care Nursing (Online), Jan 2024

11. **Louisiana State University School of Nursing**, Symptom Science, Team Science Research, & Biobehavioral Measurement – Biobehavioral Measurement in Pre-clinical and Clinical Studies (Online), Feb 2024
12. **National Center for Complementary and Integrative Health (NCCIH)**, Interactive Pain Lecture Series 2024 Spring, Feb 2024–Jun 2024
    a. Concepts about and physiology of nociception (Feb 14)
    b. Types of pain and their pathophysiology - acute and post-operative pain (Apr 10)
13. **University of Miyazaki School of Nursing**, Principle of Nursing (Online), Jul 2024