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研究領域：動物疾病模式建立、關節軟骨與硬骨組織學、治療性胜肽之應用、醫學數位影像分析

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學歷

2013-2020	國立陽明大學牙醫系	博士
2011-2013	國立陽明大學解剖學及細胞生物學研究	碩士
2007-2011	中山醫學大學醫學檢驗暨生物技術學系	學士

經歷

2025-迄今	國立中興大學獸醫學系	助理教授
2020-2025	日本東北大學大學院齒學研究科 醫事檢驗師證照	助理教授

歷年研究計畫

2024-2026	日本學術振興會 科學研究費助成事業 若手研究 Exploring the inflammatory mediators degraded by MMP-2 in MP-2-deficient mice with knee arthritis through a novel TMT-TAILS quantitative proteomics	計畫主持人
2021-2023	日本學術振興會 科學研究費助成事業 基盤研究(C) プロテオームとミネラルームのイメージングを用いたMMP-2による再生骨成熟の解析	協同計畫主持人
2022-2023	東北大学「TUMUG 支援事業」ネクストステップ研究費 Immunolocalization of types I and II collagens, and proteoglycans in the TMJ condyle of aged mice.	計畫主持人
2021-2022	東北大学「TUMUG 支援事業」ネクストステップ研究費 Immunolocalization and quantification of matrix metalloproteinases-3, -9, and -13 in the TMJ condyle of aged mice.	計畫主持人
2020-2021	東北大学「TUMUG 支援事業」スタートアップ研究費 Establishment of CFA-induced TMJ OA experimental mouse model for evaluation of TMDs in in vivo study.	計畫主持人

代表著作

- Wang DH, Nguyen KX, Tran TT, Wu PH, Hong G, Lin YM, Hsu YC, Yang CC, Lin YC, Hsu WE, Hsu ML*, **Yang MC***. Phosphotungstic acid-enhanced micro-computed tomography and RNA sequencing provide a new perspective on temporomandibular joint arthritis induced by complete Freund's adjuvant and collagen-induced arthritis in rat models. *Journal of Dental Sciences*. 2025;20(1):189-200. (*Corresponding author)
- Tsai FT, Yang CC, Lin YC, Hsu ML, Hong G, **Yang MC**, Wang DH, Huang LJ, Lin CT, Hsu WE, Tu HF. Temporal stability of tongue microbiota in older patients - A pilot study. *Journal of Dental Sciences*. 2024;19(2):1087-1095.
- Yang MC**, Nakamura M, Kageyama Y, Igari Y, Sasano Y. Age-related gene and protein expression in mouse mandibular condyle analyzed by cap analysis of gene expression and immunohistochemistry. *Gerontology*. 2023;69(11):1295-1306.

4. Sasano Y, Konno A, Nakamura M, Henmi A, Mayanagi M, **Yang MC**, Yao I. Visualization of the localization of phospholipids in developing rat teeth by matrix-assisted laser desorption/ionization imaging mass spectrometry. *Biomedical Research*. 2023;44(4):173-179.
5. **Yang MC**, Nakamura M, Mayanagi M, Sasano Y. Immunohistochemical characterization of the mandibular condyle in MMP-2-deficient mice for type I and II collagen, aggrecan, MMP-9, and MMP-13. *Biomedical Research*. 2023;44(2):65-72.
6. Tran TT, Wang DH, **Yang MC**, Chen JC, Wu PH, Yang CC, Hsu WE, Hsu ML. Effects of food hardness on temporomandibular joint osteoarthritis: Qualitative and quantitative micro-CT analysis of rats in vivo. *Annals of Anatomy*. 2023;246:152029.
7. Nakamura M, **Yang MC**, Ashida K, Mayanagi M, Sasano Y. Calcification and resorption of mouse Meckel's cartilage analyzed by von Kossa and tartrate-resistant acid phosphatase histochemistry and scanning electron microscopy/energy-dispersive X-ray spectrometry. *Anatomical Science International*. 2022;97(2):213-220.
8. **Yang MC***, Wang DH*, Chheng JH, Li WC, Lin PY, Hsu WE, Hsu ML. Role of Link N in modulating inflammatory conditions. *Journal Oral Facial Pain Headache*. 2019;33:114-122. (*Co-first author)
9. **Yang MC**, Wang DH, Wu HT, Li WC, Chang TY, Lo WL, Hsu ML. Correlation of magnetic resonance imaging grades with cytokine levels of synovial fluid of patients with temporomandibular joint disorders: A cross-sectional study. *Clinical Oral Investigations*. 2019;23(10):3871-3878.
10. Lo WL, Leu BH, **Yang MC**, Wang DH, Hsu ML. Dysphagia and risk of aspiration pneumonia: A nonrandomized, pair-matched cohort study. *Journal of Dental Sciences*. 2019;14(3), 241-247.
11. Chang CL, Wang DH, **Yang MC**, Hsu WE, Hsu ML. Functional disorders of the temporomandibular joints: Internal derangement of the temporomandibular joint. (Review) *The Kaohsiung journal of medical sciences*. 2018;34(4):223-230.1.
12. Wang DH, **Yang MC**, Hsu WE, Hsu ML, Yu LM. Response of the temporomandibular joint tissue of rats to rheumatoid arthritis induction methods. *Journal of Dental Sciences*. 2017;12(1):83-90.
13. Wang DH, **Yang MC**, Hsu WE, Hsu ML. Comparison of Three Techniques for Swine Temporomandibular Joint Space Injection. *Journal Oral Facial Pain Headache*. 2016;30(2):165-70.