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**Position :**

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**Research Interests:**

1. Alterations in gut microbiota correlate with anti-Inflammatory effects of electroacupuncture in colitis mice with sleep fragmentation
2. Effect of electroacupuncture in mice with dextran sulfate sodium-induced colitis and the influence of gut microbiota
3. Efficacy of acupuncture for postoperative analgesia and its relationship with acupuncture sensation
4. Sleep and activity analysis in memory of aging process in healthy elderly
5. Safety assessment of the auto manipulation device for acupuncture

## **Publication Lists: (2011-present)**

1. Yeh BY, **Liu GH**, Hsu YC, Zhuo WJ, Chen YS\*. Effect of Electroacupuncture at Zusanli and Shangjiuxu for Qi and Blood Shifting. J Chin Med, 2012 Dec;23(2). 235-244.
2. Huang YH, Chen JL, Yang SH, **Liu GH**, Chang KP, Tsang NM\*. Influence of Chinese Medicine on Weight Loss and Quality of Life During Radiotherapy in Head and Neck Cancer. Integr Cancer Ther. 2013 Jan;12(1):41-9. (SCI ; IF=3.077 ; R/C=13/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE)
3. Yu CC, You JS\*, Wiseman N, **Liu GH**. Study on Zhang Yuan-Su's Theory of Channel Entry and Channel Conductor. J Chin Med, 2013 Jun;24(1). 37-47.
4. **Liu GH**, Chen YS, Yeh BY, Yu CC, You JS\*. An Exploration on the Root of Pulse: From the Viewpoints of Chinese Medical Classics and Cardiovascular Physiology. J Chin Med, 2013 Jun;24(1). 49-63. (first author)
5. **Liu GH**, Huang YH, Lee TH, Chen HY, Liu SJ, Chang YJ, Chang CH, Chen YS\*. Comparison of the Efficacy of Acupuncture between Subacute Ischemic and Hemorrhagic Stroke Patients: A Retrospective Observational Study. J Chin Med, 2013 Dec;24(2). 251-259. (first author)
6. Wu CM\*, Lin SK, Chen YS, **Liu GH**. Development of Automatic Manipulation Device for Acupuncture (AMDA). Conf Proc IEEE Eng Med Biol Soc. 2014;2014:518-21.
7. Tang YY, Shiue HS\*, Tsai FK, Yeh BY, Chen YL, **Liu GH**, You SW, Yang TH, Cheng SC, Huang HC, Hsieh YW. The Comparison Of Effects between Acupuncture and Patient Controlled Analgesia (PCA) on Postoperative Pain for Patients with Spinal Surgery. J Chin Med. 2018. 29(2): 42-50.
8. **Liu GH**, Tsai MY, Chang GJ, Wu CM, Lin SK, Chen YS\*, Lee TY\*. Safety Assessment of the Auto Manipulation Device for Acupuncture in Sprague-Dawley Rats: Preclinical Evaluation of the Prototype. Evid Based Complement Alternat Med. 2018 Aug 6;2018:5708393. (SCI ; IF=2.650 ; R/C=16/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE) (first author)
9. Chen CK, Lin YC, Cheng JW, Pei YC, **Liu GH**, Chen YL, Wong AM\*. Effectiveness of Laser Acupuncture in Alleviating Chronic Insomnia: A Single-Blinded Randomized Controlled Trial. Evid Based Complement Alternat Med. 2019 Jun 13;2019:8136967. (SCI ; IF=2.650 ; R/C=16/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE)
10. Huang YH, Chen ST, Liu FH, Hsieh SH, Lin CH, Liou MJ, Wang CC, Huang CH, **Liu GH**, Lin JR, Yang LY, Hsu TY, Lee MC, Huang CT, Wu YH\*. The efficacy and safety of concentrated herbal extract granules, YH1, as an add-on medication in poorly controlled type 2 diabetes: A randomized, double-blind, placebo-controlled pilot trial. PLoS One. 2019 Aug 15;14(8):e0221199. (SCI ; IF=3.752 ; R/C=29/73 , MULTIDISCIPLINARY SCIENCES)
11. Wang TJ, Yang TH, Tsang NM, Tang YY, Hsu HC, **Liu GH**, Hsu PY, Yang CC, Chen HY, Yang SH, Chen JL\*. Zeng Ye Decoction Mouthwashes With Acupuncture Can Decrease Complications and Body Weight Loss of Head And Neck Cancer Patient Under Radiotherapy With/without Chemotherapy. J Chin Med. 2019. 30(2): 48-61.

12. **Liu GH**, Liu HM, Chen YS, Lee TY\*. Effect of electroacupuncture in mice with dextran sulfate sodium-induced colitis and the influence of gut microbiota. *Evid Based Complement Alternat Med.* 2020 Apr 27;2020:2087903. (SCI ; IF=2.650 ; R/C=16/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE) (first author)
13. Yeh BY, **Liu GH**, Lee TY, Wong AM, Chang HH\*, Chen YS\*. Efficacy of the Electronic Acupuncture Shoes for Chronic Low Back Pain: A double-blinded randomized controlled Trial. *J Med Internet Res.* 2020 Oct 26;22(10):e22324. (SCI ; IF=7.093 ; R/C=10/109 , Health Care Sciences & Services ; R/C=5/31 , Medical Informatics)
14. Huang YH, **Liu GH**, Hsu TY, Yang LY, Lee MC, Huang CT, Wu YH\*. Effective Dose of Rhizoma Coptidis Extract Granules for Type 2 Diabetes Treatment: A Hospital-Based Retrospective Cohort Study. *Front Pharmacol.* 2021 Jan 25;11:597703. (SCI ; IF=5.988 ; R/C=50/279, PHARMACOLOGY & PHARMACY)
15. Chen YL, Chuang LP\*, Lin SW, Huang HY, **Liu GH**, Hsu HF, Chen NH. Effects of Pressure Control Device (SensAwake™) on Obstructive Sleep Apnea (OSA) Patients Who Remove the Mask for Unknown Reasons during Automatic Continuous Positive Airway Pressure (Auto-CPAP) Therapy: A Prospective Randomized Crossover Trial. *Medicina-Lithuania (Kaunas)* 2021 Aug 31;57(9):915. (SCI ; IF=2.948 ; R/C=87/172 , MEDICINE, GENERAL & INTERNAL)
16. Chen YS, Wen CK, **Liu GH**, Lee TY\*. Electroacupuncture attenuates vascular hyporeactivity in a rat model of portal hypertension induced by bile duct ligation. *Acupunct Med.* 2022 Feb;40(1):68-77. doi: 10.1177/09645284211039230. (SCI ; IF=1.984 ; R/C=22/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE)
17. Siow TY, Toh CH\*, Hsu JL, **Liu GH**, Lee SH, Chen NH, Fu CJ, Castillo M, Fang JT. Association of Sleep, Neuropsychological Performance and Gray Matter Volume with Glymphatic Function in Community-Dwelling Older Adults. *Neurology.* 2022 Feb 22;98(8):e829-e838. doi: 10.1212/WNL.0000000000013215. (SCI ; IF=11.800 ; R/C=10/212 , CLINICAL NEUROLOGY)
18. Chao YL, Rau YA, Shiue HS, Yan JL, Tang YY, Yu SW, Yeh BY, Chen YL, Yang TH, Cheng SC, Hsieh YW, Huang HC, Tsai FK, Chen YS, **Liu GH**\*. Using a consensus acupoints regimen to explore the relationship between acupuncture sensation and lumbar spinal postoperative analgesia: a retrospective analysis of prospective clinical cooperation. *J Integr Med-JIM.* 2022 Jul;20(4):329-337. doi: 10.1016/j.joim.2022.04.003. (SCI ; IF=3.967 ; R/C=9/30 , INTEGRATIVE & COMPLEMENTARY MEDICINE)
19. **Liu GH**, Zhuo XC, Huang YH, Liu HM, Wu RC, Kuo CJ, Chen NH, Chuang LP, Lin SW, Chen YL, Yang HY\*, Lee TY\*. Alterations in Gut Microbiota and Upregulations of VPAC2 and Intestinal Tight Junctions Correlate with Anti-Inflammatory Effects of Electroacupuncture in Colitis Mice with Sleep Fragmentation. *Biology (Basel).* 2022 Jun 25;11(7):962. doi: 10.3390/biology11070962. (SCI ; IF=5.168 ; R/C=21/94 , BIOLOGY) (first author)
20. Huang YH, Wu YH, Tang HY, Chen ST, Wang CC, Ho WJ, Lin YH, **Liu GH**, Lin PY, Lo CJ,

Yeh YM\*, Cheng ML\*. Gut Microbiota and Bile Acids Mediate the Clinical Benefits of YH1 in Male Patients with Type 2 Diabetes Mellitus: A Pilot Observational Study. *Pharmaceutics*. 2022 Sep 02;14(9):1857. doi: 10.3390/pharmaceutics14091857. (SCI ; IF=6.525 ; R/C=39/279 , PHARMACOLOGY & PHARMACY)

**Patents:**

以下放置各研究室活動照片（至少四張）