

Chen Min



Title and position: Chief Physician, Associate Professor, Doctoral Supervisor
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Teaching subjects: Acupuncture, Basic Theory of TCM, Treatise on *Shanghan Lun*, Health Preservation and Rehabilitation of TCM, Special Topics in Acupuncture, Research Progress in Acupuncture
Research direction: The mechanism of acupuncture's actions; Using Classic Formulas to treat tumor metastasis

Education background

2010-2013 Guangzhou University of Chinese Medicine/Chinese Medicine (Clinical Fundamentals of Chinese Medicine)/Doctoral Degree
2003-2010 Hunan University of Chinese Medicine/Chinese Medicine (Acupuncture and Tuina Direction)/Master's degree
2003-2010 Hunan University of Chinese Medicine/Chinese Medicine (Acupuncture and Tuina Direction)/Bachelor's degree

Teaching and research experience

September 2013- present Faculty of Chinese Medicine and The State Key Laboratory of Mechanism and Quality of Chinese Medicine, Macau University of Science and Technology

Academic achievements

Journal papers published as first (†) or corresponding author (*) in recent years:

1. Shi H, Chen Y, Huang Z, Shen C, Xiao J, Zhao H, Zou Z, Zhang W, Feng K, Ou Z, Jia L, Wang Q, Li B, Shi L, **Chen, M.*** (2025). Targeted synergistic therapy for bone and brain disorders using hydrogel microneedles loaded with exosomes and drugs. *Microstructures* 2025;5.
2. Qiu, Z., Gu, X., Gao, Q., Huang, Y., Ren, Y., He, J., Sun, X., Qu, S., Zheng, L., XuFeng, J., **Chen, M.***, & Sui, X. (2025). The antitumor mechanisms of Huangqin Houpo decoction and its effect on chemotherapy-induced toxicity in colorectal cancer. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 150, 157424.

3. Shi H, Shao L, Ma J, Fang P, Lin L, Wang Q, Shi L, **Chen, M.*** (2025). Integrated multi-omics and functional analyses identify the renin-angiotensin system dysregulation as a central driver of lumbar disc herniation. *Journal of the Renin- Angiotensin-Aldosterone System* 2026;3
4. Chen, P., Xiao, L., Lv, C., Zhang, Q., Wu, Y., & **Chen, M.*** (2025). Multi-omics analysis links FERMT1 expression to patient survival, immunotherapy response, and metastasis across cancers. *Translational cancer research*, 15(1), 21.
5. Chen, Y. X., Xuan, Y. S., Wang, M. H., Li, Y., Shi, S. M., Zhao, H. Y., Niu, Y. H., **Chen, M.***, & Li, S. Y. (2025). Research on the regulation of gut microbiota homeostasis and immune function in asthmatic mice by Huanglong Zhixiao Formula. *Frontiers in microbiology*, 16, 1726388.
6. Xu, J., **Chen, M.***, Chen, G., Lou, T., & Xu, L. (2025). Association of laryngopharyngeal reflux with chronic rhinosinusitis prevalence in adults: A systematic review and meta-analysis. *Biomolecules & biomedicine*, 10.17305/bb.2025.13354. Advance online publication.
7. Fang, P., Jia, S., Lin, L., Guo, Z., Wang, R., Sun, H., Li, Y., **Chen, M.***, & Wang, T. (2025). Reactive astrocyte-related pathogenic genes in depression: A multi-omics Mendelian randomization study. *Journal of affective disorders*, 395(Pt A), 120706.
8. Lin, L., Li, S., Guo, Z., Fang, P., Feng, Y., Qi, C., Wang, M., Xiao, L., **Chen, M.***, & Wang, T. (2025). The efficacy and potential mechanism of the acupuncture treatment for type 2 diabetes mellitus: A systematic review and meta-analysis of data from animal models. *Frontiers in endocrinology*, 16, 1627061.
9. Lin, L., Guo, Z., Zhan, Q., Fang, P., Shi, H., Feng, Y., Tian, S., Xiao, L., **Chen, M.***, & Wang, T. (2025). A Bibliometric Analysis of Research on Natural Medicines for Depression from 2004 to 2024. *Journal of multidisciplinary healthcare*, 18, 6257–6274.
10. Wei, W., Qiu, Z., Xiao, L., Huang, Y., & **Chen, M.*** (2025). Genetic evidence for a causal relationship between oral bacterial taxa and asthma in east Asian population. *Cytokine*, 195, 157021.
11. Wu, D., Zhang, Y., Wu, C., An, B., Wang, X., Ni, J., & **Chen, M.*** (2025). The relationship between polycystic ovary syndrome and gynecological cancers: neurotransmitter metabolism changes and immune regulation. *Frontiers in immunology*, 16, 1578470.
12. Xie, Y., Chen, Y., Qin, T., Li, J., Chang, Z., Li, Y., Zhang, J., Liu, M., Wang, J., Ren, R., Qian, Z., Liu, J., & **Chen, M.*** (2025). Moxibustion inhibits inflammation in monosodium urate crystal-induced gouty arthritis model rats through metabolomic regulation. *Frontiers in molecular biosciences*, 12, 1433912.
13. Lin, L., Guo, Z., Ren, Z., Feng, Y., Fang, P., Wang, T., & **Chen, M.*** (2025). Bibliometric insights into astrocytic roles in depression and treatment. *Frontiers in cellular neuroscience*, 18, 1521398.
14. Weng, Y., Ren, X., Zu, Z., Xiao, L.*, & **Chen, M.*** (2024). Efficacy and safety of acupuncture for the treatment of insomnia in breast cancer patients: a systematic review and meta-analysis. *Complementary therapies in medicine*, 103087. Advance online publication.
15. Xie, YF., Xiao, L., Zhang, JM., Tang, H., Zhou, H., He, QD., Zhou, ZM., Chen, Y., Guo, ZY., Wang, Q., Lin, QC., Wu, QB. * & **Chen, M.*** (2024). Moxibustion and fire needle acupuncture

for gouty arthritis: a systematic review and meta-analysis. *Journal of Mechanisms in Medicine and Biology*, 2440055.

16. Shi, H., & **Chen, M.*** (2024). The brain-bone axis: unraveling the complex interplay between the central nervous system and skeletal metabolism. *European journal of medical research*, 29(1), 317.
17. Guo, Z., Long, T., Yao, J., Li, Y., Xiao, L.*, & **Chen, M.*** (2024). Potential antidepressant effects of Traditional Chinese botanical drug formula Chaihu-Shugan-San and its active ingredients. *Frontiers in pharmacology*, 15, 1337876.
18. Zhu, D., He, X., Li, Y., Li, G.*, & **Chen, M.*** (2024). Immune microenvironment of human papillomavirus-positive head and neck squamous cell carcinoma. *Science progress*, 107(1), 368504241237888.
19. Lyu, K., Li, J.*, **Chen, M.***, Li, W., Zhang, W., Hu, M., Zhang, Y., & Feng, X. (2024). A bibliometric analysis of autism spectrum disorder signaling pathways research in the past decade. *Frontiers in psychiatry*, 15, 1304916.
20. Guo, Z., Ren, Z., Yao, J., Li, Y., Che, Z., Yu, Z., Fang, P., Lu, X.*, & **Chen, M.*** (2024). Does acupuncture treatment modulate inflammatory cytokines in rodent models of depression? A systematic review and meta-analysis. *Frontiers in behavioral neuroscience*, 18, 1329638.
21. Xie, Y., Li, Y., Zhang, J., Chen, Y., Ren, R., Xiao, L.*, & **Chen, M.*** (2024). Assessing the causal association between human blood metabolites and the risk of gout. *European journal of clinical investigation*, 54(3), e14129.
22. Zhai, X.[†], He, Q.[†], **Chen, M.[†]**, Yu, L., Tong, C., Chen, Y., Wang, J., Fan, X., Xie, H., Liang, Z., Sui, X., Zeng, L., & Wu, Q. (2023). Pinellia ternata-containing traditional Chinese medicine combined with 5-HT3RAs for chemotherapy-induced nausea and vomiting: A PRISMA-compliant systematic review and meta-analysis of 22 RCTs. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 115, 154823.
23. **Chen, M.**, Tong, C., Wu, Q., Zhong, Z., He, Q., Zeng, L*., & Xiao, L*. (2023). 6-Shogaol Inhibits the Cell Migration of Colon Cancer by Suppressing the EMT Process Through the IKK β /NF- κ B/Snail Pathway. *Integrative cancer therapies*, 22, 15347354231172732.
24. Tong, C., He, Q., Ho, M., Zhong, Z., Wu, Q.*, & **Chen, M.*** (2022). Tuina for Enuresis in Children: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Frontiers in public health*, 10, 821781.
25. **Chen, M.**, He, Q. D., Guo, J. J., Wu, Q. B., Zhang, Q., Yau, Y. M., Xie, Y. F., Guo, Z. Y., Tong, Z. Y., Yang, Z. B., & Xiao, L. (2022). Electro-Acupuncture Regulates Metabolic Disorders of the Liver and Kidney in Premature Ovarian Failure Mice. *Frontiers in endocrinology*, 13, 882214.
26. Li, Z., **Chen, M.***, & Tang, C.* Improvement of Acupuncture Therapy on Relapse of Patients with Gouty Arthritis: A Pairwise and Bayesian Network Meta analysis. *Acupuncture & Electro-Therapeutics Research*.2022,47(2):167-182.
27. He, Q. D., Guo, J. J., Zhang, Q., Yau, Y. M., Yu, Y., Zhong, Z. H., Tong, Z. Y., Yang, Z. B., & **Chen, M.*** (2022). Effects of Electroacupuncture on the Gut Microbiome in Cisplatin-Induced

Premature Ovarian Failure Mice. Evidence-based complementary and alternative medicine : eCAM, 2022, 9352833.

28. Zhong, Z. H., Yi, Z. L., Zhao, Y. D., Wang, J., Jiang, Z. B., Xu, C., Xie, Y. J., He, Q. D., Tong, Z. Y., Yao, X. J., Leung, E. L., Coghi, P. S., Fan, X. X., & **Chen, M.*** (2022). Pyronaridine induces apoptosis in non-small cell lung cancer cells by upregulating death receptor 5 expression and inhibiting epidermal growth factor receptor. *Chemical biology & drug design*, 99(1), 83–91.
29. He, Q. D., Zhong, Z. H., Liu, M. N., Tong, Z. Y., Wu, Q. B., & **Chen, M.*** (2021). Efficacy and Safety of Acupuncture Vs. Hormone Therapy for Menopausal Syndrome: A Systematic Review and Meta-Analysis. *The American journal of Chinese medicine*, 49(8), 1793–1812.
30. Zhang, S., Meng, T., Tang, C., Li, S., Cai, X., Wang, D., & **Chen, M.*** (2020). MicroRNA-340-5p suppressed rheumatoid arthritis synovial fibroblast proliferation and induces apoptotic cell number by targeting signal transducers and activators of transcription 3. *Autoimmunity*, 53(6), 314–322.

Some Chinese papers published as the first or corresponding author:

1. Clinical study of electro-acupuncture combined with governor vessel moxibustion in the treatment of infertility caused by resistant ovary syndrome; *China Journal of Traditional Chinese Medicine and Pharmacy*. 2023(08) Page:3948-3950
2. Assessment rubric for the Acupuncture and Moxibustion course in Sport in Society program: development and effects; *Education of Chinese Medicine*. 2023(02) Page:9-12
3. TANG Chun-zhi; Prognosis and safety of acupuncture therapy for gouty arthritis: a Meta analysis; *Chinese Journal of Clinical Research*. 2022(02) Page:149-156+166
4. Textual Research on The Nine Special Meridians in Su Wen-Treatise on Needling Lumbago; *Journal of Basic Chinese Medicine*. 2021(07) Page:1062-1064
5. Extraction and Activity of Polyphenols from Male Buds of *Areca catechu* L; *The Food Industry*. 2021(07) Page:8-11
6. CHEN Zhenhu; TANG Chunzhi; Clinical experience in using Qihuang needle therapy by professor CHEN zhenhu; *Journal of External Therapy of Traditional Chinese Medicine*. 2021(03) Page:99-100
7. Explanation of clinical application of classical Chinese herbal formulas under guidance of classic acupuncture theory by examples; *Chinese Acupuncture & Moxibustion*. 2020(11) Page:1237-1240
8. Discussion on several questions in acupuncture and moxibustion theory; *China Journal of Traditional Chinese Medicine and Pharmacy*. 2020(10) Page:4877-4880
9. Determination of Residue Amount of Tildipirosin in 4 Poultry Meat by Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry; *Physical Testing and Chemical Analysis(Part B:Chemical Analysis)*. 2020(06) Page:676-681
10. Humble Opinions on Effects of Yi-ology on FU Qingzhu's Obstetrics and Gynecology; *Journal of Hunan University of Chinese Medicine*. 2020(01) Page:46-49

11. Jin's Three-needle Therapy combined with buyang huanwu decoction in the treatment of a case of radial nerve palsy; *Global Traditional Chinese Medicine*. 2020(01) Page:137-139
12. Observation on Curative Efficacy of Acupuncture at Muscle Origin in Treating Spastic Paralysis; *Journal of Guangzhou University of Traditional Chinese Medicine*. 2019(06) Page:827-830
13. Brief discussion on the clauses without specific acupuncture point in *Shanghan Lun*; *China Journal of Traditional Chinese Medicine and Pharmacy*. 2018(09) Page:4031-4033
14. UPLC Fingerprint, Cluster and Principal Component Analysis of Xiao'er Chaigui Tuire Granules; *China Pharmacy*. 2018(04) Page:474-477
15. Discussion on xuetou xingzou xuedao ge and meridian qi flowing cycle ; *Chinese Acupuncture & Moxibustion*. 2017(05) Page:561-564
16. Meaning of exegetics research on acupoint name; *Chinese Acupuncture & Moxibustion*. 2016(05) Page:539-542
17. Impacts of numerology on acupuncture; *Chinese Acupuncture & Moxibustion*. 2016(04) Page:421-424
18. The influence of acupuncture-moxibustion thought from *Treatise on Cold and Miscellaneous Diseases* on Xu Shuwei's acupuncture-moxibustion theory; *Journal of MACAU UNIVERSITY OF SCIENCE AND TECHNOLOGY*. 2013(02) Page(21-24)
19. The influence of the thought of Yiology on *Shanghan Lun* in brief discussion; *Journal of Traditional Chinese Medicine*. 2013(02) Page:96-98+106
20. Effect of Electro-Acupuncture at the Cleft Points and Alarm Points on Renal Colic and A Accompanied Symptoms in 26 Cases; *Journal of Traditional Chinese Medicine*. 2012(15) Page:1308-1311

Participated in editing works:

1. Xiong Manqi *Advanced Series of Traditional Chinese Medicine: Treatise on Shanghan Lun* [M] 2nd Edition, Beijing: People's Health Publishing, April 2011
2. Li Saimei *Illustrated Traditional Chinese Medicine Exam Preparation Series: Treatise on Shanghan Lun* [M]. Beijing: China Medical Science and Technology Press, January 2012
3. Li Saimei *Lectures on Classic Formulas by Famous Teachers* [M]. Beijing: China Traditional Chinese Medicine Press, April 2012
4. *Clinical study of Treatise on Shanghan Lun with renowned teachers* Beijing: People's Health Publishing, May 2012
5. Li Saimei, Li Yuhang *Twelfth Five Year Plan Textbook • Lecture Notes on Treatise on Shanghan Lun* [M] 2nd edition, Beijing: People's Health Publishing, June 2012
6. Wang Fuchun, Jia Chunsheng *Thirteenth Five Year Plan Textbook • Acupuncture operation method* [M] 3rd edition. Shanghai: Shanghai Science and Technology Press, July 2018
7. Li Saimei *Lingnan Traditional Chinese Medicine Characteristic Series Textbooks: Clinical Practice of Lingnan Shanghan Lun Theory* [M] Beijing: People's Health Publishing House,

September 2019

Hosting scientific research projects

1. Mechanism of Electroacupuncture on remodeling metabolic homeostasis in premature ovarian failure rats based on "intestinal flora-estrogen" pathway, 0114/2022/A, Macau Science and Technology Development Fund project, 2023-2026
2. Exploring the Mechanism of 6-gingerol Inhibiting Colon Cancer Cell Metastasis Based on NF- κ B/Snail Signaling Pathway, gzwkj2022-023, Science and Technology Fund Project of Guizhou Provincial Health Commission, 2022-2023
3. The Use of Evaluation Metrics in the Course of Chinese Medicine in Western Medical Colleges, June 2020, Guizhou Province Higher Education Teaching Content and Curriculum System Reform Project, 2020-2022
4. The inhibitory effect and mechanism of Xiaobanxia Tang on the proliferation and migration of colon cancer cells, 20201324, Traditional Chinese Medicine Research Project of Guangdong Provincial Bureau of Traditional Chinese Medicine, 2020-2021
5. The effect of ginger on the proliferation apoptosis and migration of colon cancer cells and its mechanism, 0010/2019/A, Macau Science and Technology Development Fund project, 2019-2020
6. Research on reversing multidrug resistance of breast cancer with multifunctional nano Venus, B2019005, general project of Guangdong Medical Research Fund, 2019-2021
7. The effect and mechanism of scutellarin on silybin induced breast cancer cell death and toxicity, A2018438, Guangdong Medical Research Fund Youth Project, 2018-2020
8. Research on Acupuncture Prescription Design Method Based on the Pathogenesis of *Shanghan Lun* Syndrome, FRG-0452, Research Fund Project of Macau University of Science and Technology, 2015-2016
9. Exploring the Regulation of Danhong Tongjing Formula on Spermatogenic Function Based on Mitochondrial Autophagy and Cell Apoptosis, 2220004000307, Zhuhai Social Development Science and Technology Plan Project, 2022-2024 (Co PI)

Hosting science popularization projects:

1. Multimedia human acupoint luminous model, 186/2014/SP, The Science and Technology Development Fund (FDCT), 2014-2016
2. Simulation puncture training system of acupoints, 188/2014/SP, The Science and Technology Development Fund (FDCT), 2014-2016
3. Foot reflection area teaching system with LCD touch screen, 189/2014/SP, The Science and Technology Development Fund (FDCT), 2014-2016

Participation in important academic conferences and speeches

1. On April 17, 2024, the Prevention and Treatment Branch of the Henan Rehabilitation Medicine Association held the 2024 International Academic Annual Conference in Anyang, Henan Province. Speech topic: Tea and Traditional Chinese Medicine Health Preservation
2. On August 20, 2023, the 2nd Guangdong Hong Kong Macao University Traditional Chinese Medicine Clinical Foundation Alliance Teaching Seminar and Academic Exchange Conference on Traditional Chinese Medicine Classics Wards, Guangzhou, speech topic: The Radiation Role of Acupuncture Theory in Traditional Chinese Medicine Canon Teaching
3. 2023.7. 2023, Macau Summit Forum on Traditional Chinese Medicine Culture, Macau, Speech Title: Acupuncture and Treatment Strategies for Common Diseases
4. December 12, 2022, Continuing Professional Development (CPD) for Medical License Holders in Macau, Macau, Lecture Title: Examples of Clinical Application of Classic Acupuncture Theory Guided Classic Formulas
5. On December 26, 2022, the 12th International Classical Prescriptions Class and the 22nd National Advanced Training Class on Clinical Application of Classical Prescriptions, as well as the 4th Li Saimei Famous Medical Studio Academic Inheritance Seminar, Guangzhou, speech topic: Examples of the Combination of Acupuncture and Classic Formulas

Academic institutions and social positions

- Expert in overseas evaluation of A3ES acupuncture course in Portugal
- Executive Director of the Traditional Chinese Medicine Immunology Professional Committee of the World Federation of Traditional Chinese Medicine
- Executive Director of the Medical Cases Professional Committee of the World Federation of Traditional Chinese Medicine
- Director of the Diagnostic Professional Committee of the World Federation of Traditional Chinese Medicine
- Member of the Acupoint Taping Professional Committee of the Chinese Acupuncture and Moxibustion Society

Award:

- The First National Scholarship for Doctoral Students (2012)
- First Prize in Teaching Category of the Zhongzhu Medical Life Science Award (2016)
- First Prize in Teaching Category of the Zhongzhu Medical Life Science Award (2017)
- "Cloud Classroom" Teaching Excellence Award (2020)