

## 杨观虎



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### 基本信息：

杨观虎，男，日本国医学博士，美国医学博士后。现任澳门科技大学中医药学院教授、博士生导师；兼任俄亥俄大学临床教授、瑞士中医药大学一级教授、博士研究生导师等。

### 教育背景：

- 1985年 浙江中医学院（现浙江中医药大学） 中医学学士
- 1985—1987年 南京中医学院（现南京中医药大学） 温病学 硕士
- 1995—1999年 日本金泽医科大学研究生院 呼吸内科 医学博士

### 工作与学术经历：

- 1987—1993年 温州医学院附属第二医院中医科 讲师
- 1993年起 获笹川医学奖学金，由原卫生部派往日本富山医科药科大学第一内科，从事糖尿病相关研究；后转入金泽医科大学研究生院呼吸内科，完成博士学位
- 1999年起 美国辛辛那提儿童医疗中心（Cincinnati Children's Hospital Medical Center）博士后，从事呼吸生理学与肺生物学研究
- 2005—2009年 美国俄亥俄州 SHI 针灸学校 校长
- 此后受聘于多所高校与机构担任客座教授或博士生导师，包括北京中医药大学、温州医科大学、浙江中医药大学、南京中医药大学等；曾任温州医科大学国际针灸康复研究所外方所长，并在美国、英国等多所中医药教育机构承担博士培养工作

### 学术任职与社会服务：

杨观虎教授长期活跃于国际中医药与针灸学术界，担任多项重要学术组织职务，包括：

- 美国络病学会 会长
- 美国中药学会 副会长
- 世界中医药学会联合会（世中联）监事会执行委员
- 世中联糖尿病诊治标准制定组成员
- 世中联内科专业委员会 常务理事
- 世中联消化专业委员会、副会长
- 世中联内分泌专业委员会、副会长
- 世中联方药量效研究会、副会长
- 世中联态靶辨治专业委员会、副会长

### 临床资质与实践：

持有美国多州中医针灸执照，包括：俄亥俄州、纽约州、马里兰州、弗吉尼亚州。长期从事中医针灸临床实践，在内科及妇科疑难病症方面积累了丰富的经验，尤其关注与擅长方向包括：

- 糖尿病及其相关问题
- 纤维肌痛综合征
- 消化系统疾病
- 不孕不育等生殖健康问题

### 科研方向与学术贡献：

杨观虎教授具备扎实的现代医学研究训练与深厚的中医理论功底，长期致力于中西医结合与针灸、中药现代机制研究，重点关注：

- 针灸/中药在疼痛管理、代谢性疾病、肿瘤免疫、神经退行性疾病等领域的作用机制
- 运用生物信息学、机器学习、单细胞测序、多组学分析等方法开展机制与转化研究
- 探索疾病诊断与预后相关生物标志物，以及针灸在癌症支持治疗、术后康复等场景的临床价值

### 学术论文与著作：

- 发表学术论文 210 余篇（以 SCI 论文为主）
- 参与主编、编译中医与现代医学著作 20 部
- 学术影响力指标：H-index 29，总被引 2708 次（截至简历统计时间）

### 學術成果（近 3 年）：

1. Luo H, Wu J, Yan Y, Xu D, Zhang J, Zhou X, Yang G\*, Zhong X. Mechanisms and therapeutic strategies to reveal and overcome T-cell dysfunction in gastric cancer: translation from basic research to clinical application. *Front Immunol.* 2025 Sep 30;16:1681539. doi: 10.3389/fimmu.2025.1681539. PMID: 41098737; PMCID: PMC12518355.
2. Wang SY, Li ZM, Zhang MZ, Chen ZM, Liu X, Li YJ, Li PY, Yang GH, Xia YB, Xu TC. Endocrine-related neurological function recovery in pancreatic transplantation[J]. *World Journal of Transplantation*, 2025, 15(4): 106812. <https://doi.org/10.5500/wjt.v15.i4.106812>.
3. Wang SY, Zhang MZ, Chen ZM, Li ZM, Xie CY, Yang GH, Xu B, Xu TC. Intestinal-related substances in obesity regulation: A comprehensive review[J]. *World Journal of Gastrointestinal Pharmacology and Therapeutics*, 2025, 16(4): 111082. <https://doi.org/10.4292/wjgpt.v16.i4.111082>.
4. Zhang S, Wang S, Zhang J, Zhang J, Yang G\*. PICS cognitive paradox: the 19:1 screening mismatch demands dual-track assessment - Letter on Kookken et al. *Intensive Crit Care Nurs.* 2025 Dec;91:104147. doi: 10.1016/j.iccn.2025.104147. Epub 2025 Jul 10. PMID: 40644783.
5. Zhuang Z, Yu Z, Yang G, Xu K, Chi H. Promoting the application of gastric tube tip pressure measurement in neurocritical care - Letter on Chen et al. *Intensive Crit Care Nurs.* 2025 Dec;91:104127. doi: 10.1016/j.iccn.2025.104127. Epub 2025 Jun 21. PMID: 40544724.

6. Wang, Y., Gao, Y., Deng, C., Tang, Y., Liu, Y., Yang, G., Xu, B., Xia, Y., Xu, T. Development and Validation of a Methodology for Establishing Obese Rat Models with Typical Fatty Pancreas. *J. Vis. Exp.* (225), e69553, doi:10.3791/69553 (2025).
7. Jin PK, Zhang JY, Yang GH\*. Clinical Pearl: Treatment of Postural Orthostatic Tachycardia Syndrome with Acupuncture and Chinese Herbs[J]. *Medical Acupuncture*, 2025, 37(5): 412-413. <https://doi.org/10.1177/19336586251383278>
8. Luo H, Wu J, Yan Y, Xu D, Zhang J, Zhou X, Yang G\*, Zhong X. Mechanisms and therapeutic strategies to reveal and overcome T-cell dysfunction in gastric cancer: translation from basic research to clinical application. *Front Immunol.* 2025 Sep 30;16:1681539. doi: 10.3389/fimmu.2025.1681539. PMID: 41098737; PMCID: PMC12518355.
9. Yang GH, Pu T, Tao FX, Quan XM, Cheng K. Yin-yang in modern traditional Chinese medicine: From mechanisms to digital innovation[J]. *Journal of Traditional Chinese Medical Sciences*, 2025, 12(4): 492-498. <https://doi.org/10.1016/j.jtcms.2025.09.005>
10. Huang T, Yuan Z, Liu Y, Gong X, Tang D, Xue C, Feng L, Zhao L, Wang Y, Fan AY, Yang G\*, Wang S. A Preliminary Survey Report on the Use of Acupuncture Methods by Chinese Acupuncturists Worldwide. *Altern Ther Health Med.* 2025 Sep;31(5):14-19. PMID: 40293843.
11. Zhang QH, Liu YJ, Yang G, Zhu MY, Yang JH, Li L, Yan XM, Liu QL, Yue JH, Li XL, Li YM, Xu TC, Jiang F. Efficacy and safety of non-pharmacological therapies for primary insomnia: a network meta-analysis. *Front Neurol.* 2025 Jul 29;16:1607903. doi: 10.3389/fneur.2025.1607903. PMID: 40808922; PMCID: PMC12344310.
12. Yue J, Li X, Huang D, Zhao X, Chen W, Li N, Zhang Q, Zhou X, and Yang G\*. How to Improve Safety in Acupuncture Clinical Practice? *Med Acupunct.* 2025 June 12; DOI: 10.1089/acu.2024.0128.
13. Zhang SS, Zhao LQ, Hou XH, Bian ZX, Zheng JH, Tian HH, Yang GH, Hong WS, He YY, Liu L, Shen H, Li YP, Xie S, Shu J, Zeng BF, Li JX, Liu Z, Xiao ZH, Xiao JD, Zheng PY, Huang SG, Chen SL, Fei GJ. International clinical practice guideline on the use of traditional Chinese medicine for functional dyspepsia (2025). *J Integr Med.* 2025 May 10:S2095-4964(25)00064-0. doi: 10.1016/j.joim.2025.05.002. Epub ahead of print. PMID: 40451726.
14. Chen Z, Zhang S, Jiang C, Jiang L, Chen H, Huang J, Liu J, Yang G, Luo X, Chi H, Fu J. Integrating multi-omics data to identify the role of Aggrephagy-related genes in tumor microenvironment and key tumorigenesis factors of GB from the perspective of single-cell sequencing. *Discov Oncol.* 2025 May 16;16(1):777. doi: 10.1007/s12672-025-02431-4. PMID: 40377747; PMCID: PMC12084465.
15. Zhou X, Sang X, Jiang L, Zhang S, Jiang C, Gu Y, Fu Y, Yang G, Zhang J, Chi H, Wang B, Zhong X. Deciphering the role of acetylation-related gene NAT10 in colon cancer progression and

immune evasion: implications for overcoming drug resistance. *Discov Oncol.* 2025 May 15;16(1):774. doi: 10.1007/s12672-025-02617-w. PMID: 40374962; PMCID: PMC12081795.

16. Liu Y, Xie J, Yu Z, Gong M, Li Q, Yang G, Xu B, Xu T. Electroacupuncture at ST25 mediated glial cells pruning of pancreatic TRPV1 neural synapse responds to neuropathy-associated beta cell dysfunction. *Chin Med.* 2025 May 16;20(1):65. doi: 10.1186/s13020-025-01099-w. PMID: 40380290; PMCID: PMC12083143.

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18. Huang T, Yuan Z, Liu Y, Gong X, Tang D, Xue C, Feng L, Zhao L, Wang Y, Fan AY, Yang G, Wang S. A Preliminary Survey Report on the Use of Acupuncture Methods by Chinese Acupuncturists Worldwide. *Altern Ther Health Med.* 2025 Apr 30:AT11427. Epub ahead of print. PMID: 40293843.

19. Yue J, Gao S, Chen W, Huang D, Zhao X, Li A, Li X, Yang G, Zhang Q. Acupuncture at Neiguan Acupoint (PC6) for Coronary Heart Disease: A Scoping Review. *MEDICAL ACUPUNCTURE.* DOI: 10.1089/acu.2024.0008.

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21. Xu T, Yang C, Mao W, Yang G, Xia Y. Smart Education in Acupuncture and Moxibustion: A Perspective from Knowledge Graphs[J/OL]. *Chinese Acupuncture & Moxibustion.*,1-6[2025-04-16].doi:10.13703/j.0255-2930.20250120-0001.

22. Yun L, Yu Z, Wang X, Yuan M, Lu M, Gong M, Li Q, Xia Y, Yang G, Xu B, Litscher G , Xu T. Neurophysiological mechanisms of electroacupuncture in regulating pancreatic function and adipose tissue expansion. *World J Diabetes.* 2025 May 15; 16(5): 101354. doi: 10.4239/wjd.v16.i5.101354.

23. Rong B, Jiang H, Zhu W, Yang G, Zhou X, Lyu Z, Li X, Zhang J. Unraveling the role of macrophages in diabetes: Impaired phagocytic function and therapeutic prospects. *Medicine.* 2025 Feb 2;104(8):p e41613. doi: 10.1097/MD.00000000000041613.

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Yang G\*. Editorial: Complementary and alternative therapy for pain disorders: from bench to clinical practice. *Front. Neurol.*, 05 December 2024. doi: 10.3389/fneur.2024.1498525.

26. Chi H, Jiang L, Zhou X, Wang L, Yang G, Luo H, Liu X, Xu K, Tian G. Editorial: Immune cell exhaustion: new challenges and opportunities in cancer therapy. *Front. Immunol.*, 02 December 2024. doi: 10.3389/fimmu.2024.1527428.

27. Wang S, Yang G, Chi H, Li A, Sun X, Cao D, Li N, Chen L, Zhu J, Yue J, Li X, and Zhang Q. Visualization Analysis of Acupuncture for the Treatment of Insomnia: A Scoping Literature Review Based on an International Database. *Medical Acupuncture*, 2024 December 05. doi: 10.1089/acu.2023.0128

28. Zhang F, Yang G, Zheng D. A study of an improving treatment for knee osteoarthritis. *Shanxi Journal of Traditional Chinese Medicine*. Sep 2024 Vol.25 No.9. doi: 10.3969/j. issn. 1000-7369. 2024. 09. 033.

29. Chen H, Lai H, Chi H, Fan W, Huang J, Zhang S, Jiang C, Jiang L, Hu Q, Yan X, Chen Y, Zhang J, Yang G\*, Liao B and Wan J. Multi-modal transcriptomics: integrating machine learning and convolutional neural networks to identify immune biomarkers in atherosclerosis. *Front. Cardiovasc. Med.* 26 November 2024. doi: 10.3389/fcvm.2024.1397407

30. Wang L, Zhang P, Yang G\*, Chi H. Letter to the editor for the article " Causal associations of immune cells with benign prostatic hyperplasia: insights from a Mendelian randomization study". *World J Urol.* 2024 May 29;42(1):358. doi: 10.1007/s00345-024-05064-4. PMID: 38811398.

31. Wang L, Xu Y, Yang R, Yang G\*, Chi H . Letter to the editor for the article "Combination of urinary biomarkers and machine-learning models provided a higher predictive accuracy to predict long-term treatment outcomes of patients with interstitial cystitis/bladder pain syndrome". *World J Urol.* 2024 May 24;42(1):351. doi: 10.1007/s00345-024-05044-8. PMID: 38787421.

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33. Zhuang Z, Jiang L, Yang G\*, Luo X. Identifying BLOC1S4 as a prospective target and prognostic indicator in lung adenocarcinoma. *Asian J Surg.* 2024 Nov 7:S1015-9584(24)02369-8. doi: 10.1016/j.asjsur.2024.10.059. PMID: 39510884.

34. Yue J, Zhang Q, Zheng GQ, Zhou X, Chi H, Yang HT, Zheng DM, Xu T, Golianu B, Yang G\*. Editorial: Complementary and alternative therapies for sleep disorders: from bench to bedside. *Front Med (Lausanne)*. 2024 Oct 30;11:1510996. doi: 10.3389/fmed.2024.1510996. PMID: 39540042; PMCID: PMC11557458.

35. Jiang L, Zhang S, Jiang C, Chen H, Huang J, Yang J, Chi H, Wu Q, Yang G\*. Integrative biomarker discovery and immune profiling for ulcerative colitis: a multi-methodological approach. *Sci Rep.* 2024 Oct 16;14(1):24290. doi: 10.1038/s41598-024-75797-0. PMID: 39414957; PMCID: PMC11484944.
36. Lu M, Sharmin S, Tao Y, Xia X, Yang G, Cong Y, Yang G, Razavilar N, Aziz R, Jiang J, Xiao Y, Peng L, Xu B. Economic evaluation of acupuncture in treating patients with pain and mental health concerns: the results of the Alberta Complementary Health Integration Project. *Front Public Health.* 2024 Sep 25;12:1362751. doi: 10.3389/fpubh.2024.1362751. PMID: 39386945; PMCID: PMC11461202.
37. Gu Y, Jiang L, Shui M, Luo H, Zhou X, Zhang S, Jiang C, Huang J, Chen H, Tang J, Fu Y, Luo H, Yang G, Xu K, Chi H, Liu J, Huang S. Revealing the association between East Asian oral microbiome and colorectal cancer through Mendelian randomization and multi-omics analysis. *Front Cell Infect Microbiol.* 2024 Sep 17;14:1452392. doi: 10.3389/fcimb.2024.1452392. PMID: 39355266; PMCID: PMC11443854.
38. Jiang L, Chi H, Zhou X, Tang J, Zhang J, Zhang Q, Liu S, Shen J, Yang G\*. Editorial: Spotlight on the traditional medicine in prevention and treatment of diabetes in the aging population. *Front Med.* 2024 Sep.; 13:11:1478185. doi: 10.3389/fmed.2024.1478185. PMID: 39346948; PMCID: PMC11427392.
39. Lu M, Sharmin S, Tao Y, Xia X, Yang G, Cong Y, Yang G, Jiang J, Xiao Y, Peng L, Quan J, Xu B. Effectiveness of acupuncture in treating patients with pain and mental health concerns: the results of the Alberta Complementary Health Integration Project. *Front Neurol.* 2024 Aug 6;15:1366685. doi: 10.3389/fneur.2024.1366685. PMID: 39165265; PMCID: PMC11333307.
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41. Zhang S, Huang S, Yang G\*, Chi H. Letter to the Editor: Effect of pre-transplant viral therapy on post-transplant hepatitis B virus reactivation in patients with hepatitis B-related hepatocellular carcinoma. *Int J Surg.* 2024 Aug 1;110(8):5270-5271. doi: 10.1097/JS9.0000000000001553. PMID: 39143716; PMCID: PMC11326029.
42. Lu J, Chi H, Yang G, Wu Q. Letter to the Editor for the article 'Comparative dose-response study on the infusion of norepinephrine combined with intravenous ondansetron versus placebo for preventing hypotension during spinal anesthesia for cesarean section: a randomised controlled trial'. *Int J Surg.* 2024 Aug 1;110(8):5288-5289. doi: 10.1097/JS9.0000000000001571. PMID: 38752496; PMCID: PMC11325969.
43. Zhou X, Li B, Yang G\*, Chi H. Letter to the Editor: Comparison of postoperative glomerular

filtration rate between robot-assisted partial nephrectomy (RAPN) and open partial nephrectomy (OPN). *Int J Surg.* 2024 Aug 1;110(8):5252-5253. doi: 10.1097/JS9.0000000000001544. PMID: 38704626; PMCID: PMC11325921.

44. Yan Y, Su L, Huang S, He Q, Lu J, Luo H, Xu K, Yang G\*, Huang S, Chi H. Circadian rhythms and breast cancer: unraveling the biological clock's role in tumor microenvironment and ageing. *Front Immunol.* 2024 Jul 30;15:1444426. doi: 10.3389/fimmu.2024.1444426. PMID: 39139571; PMCID: PMC11319165.

45. Gong X, Su L, Huang J, Liu J, Wang Q, Luo X, Yang G\*, Chi H. An overview of multi-omics technologies in rheumatoid arthritis: applications in biomarker and pathway discovery. *Front Immunol.* 2024 Jul 30;15:1381272. doi: 10.3389/fimmu.2024.1381272. PMID: 39139555; PMCID: PMC11319186.

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