

李 婷



職稱：教授、博士生導師

學院/部門：中藥質量研究國家重點實驗室，澳門藥物及健康應用研究院

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主要研究方向

- 1) 採用多組學技術研究炎症及自身免疫性疾病的發病機制；2) 藥物作用新機制及新靶點研究；
- 3) 新藥研發

簡介

李婷教授於 2010 年畢業於香港浸會大學，取得博士學位並進行博士後研究，2011 年 9 月加入澳門科技大學中藥質量研究國家重點實驗室、澳門藥物及健康應用研究院擔任助理教授，後被晉升為副教授及教授。已在 *Pharmacological Research*, *Free Radical Biological Medicine*, *Acta Pharmaceutica Sinica B (cover story)*, *Angew Chem Int Ed Engl.* 以及 *Nature Medicine* 等雜誌發表 SCI 學術論文 60 餘篇；授權國際發明專利 10 項（美國專利 3 項），中國發明專利 1 項；獲教育部自然科學獎一等獎（2014 及 2018 年），澳門科學技術獎一等獎（2016 年）及二等獎（2022 年），中國生物物理學會女科學家優秀科研成果三等獎（2023 年，個人獎）等多項獎項。作為課題負責人，獲國家重點研發計畫“政府間國際科技創新合作”，澳門科技發展基金等近 10 項資助，指導博士研究生 10 餘名，博士後 3 名。李博士亦為 WHO 傳統醫學合作中心（澳門）專家，世界中醫藥學會聯合會中藥免疫專業委員會常務理事，中國生物醫學工程學會免疫治療工程分會委員，中國抗炎免疫藥學專業委員會委員，中國中西結合學會臨床藥理與毒理專業委員會理事，並擔任 MedComm - Future Medicine 副主編及 *Frontiers in Immunology*, *Microstructures* 等學術雜誌編委。主要研究方向：1) 採用多組學技術研究炎症及自身免疫性疾病的發病機制；2) 研究藥物作用新靶點；3) 新藥研發。

工作履歷

2023.7-今	澳門科技大學中藥質量研究國家重點實驗室，教授
2016.7-2023.6	澳門科技大學中藥質量研究國家重點實驗室，副教授
2011.9-2016.6	澳門科技大學中藥質量研究國家重點實驗室，助理教授
2010.6-2011.8	香港浸會大學中醫藥學院博士後研究員

2005.9-2006.12

香港浸會大學中醫藥學院，研究助理

講授課程

本 科：藥理學、微生物與免疫學、分子生物學與生物化學、中藥藥理學、中藥藥理學實驗

研究生：藥理學實驗方法及設計

負責承擔的科研項目項目

1. 2024.9-2026.ApoC3 蛋白作為多囊卵巢綜合征胰島素抵抗預警標記物的技術研發及臨床應用
(澳門科學技術發展基金-廣東省聯合項目，項目編號 0043/2024/AGJ，澳門幣 1,170,000.00，負責人)
2. 2023.11-2026.10 靶向 Th17 細胞治療自身免疫性疾病的創新藥物研究
(國家重點研發計畫“政府間國際科技創新合作”，項目編號 0018/2023/AMJ，澳門幣 2,064,000，負責人)
3. 2022.07-2025.07 融合臨床、單細胞和多組學數據的人工智能技術在結直腸癌的精准診療的研究
(澳門科學技術發展基金，項目編號 0003/2021/AKP，澳門幣 7,330,000，子課題負責人)
4. 2021.04-2022.04 基於 Spike/ACE2 互作介面探索 019-nCoV 治療策略
(澳門科學技術發展基金，項目編號 0058/2020/A，澳門幣 385,000，負責人)
5. 2020.09-2022.09 高等院校青年科研人員國際培養專項資助
(澳門科學技術發展基金，項目編號 011/AIJ/2020，澳門幣 180,000，負責人)
6. 2018.10-2021.11 基於 IKK β knock-in 小鼠研究炎症中蛋白降解的穩態調控機制及藥物作用新靶標
(澳門科學技術發展基金，項目編號 0017/2018/A1，澳門幣 2,145,000，負責人)
7. 2015.04-2015.12 全自動磁性細胞分選儀 autoMACS Pro
(澳門科學技術發展基金，項目編號 025/2014/SB，澳門幣 612,110，負責人)
8. 2014.05-2017.04 來源於中藥的小分子化合物基於 ROR γ t 靶標對 Th17 及自身免疫疾病的抑制作用及機理研究
(澳門科學技術發展基金，項目編號 081/2013/A3，澳門幣 1,810,400，負責人)
9. 2012.05-2014.12 中藥二氫黃酮化合物與地塞米松合用時對免疫器官的保護作用及協同抗炎的機理研究
(澳門科學技術發展基金，項目編號 065/2011/A3，澳門幣 1,736,400，負責人)
10. 2012.1-2012.12 紫草素通過抑制 IKK β -IkB α -NF- κ B 及 MAPK 信號轉導通路對 T 細胞活化的研究
(澳門基金會，項目編號 0213，澳門幣 53,000.00，負責人)

科研獲獎

1. 2023 年中國生物物理學會女科學家優秀科研成果三等獎 (個人獎)
2. 2022 年度澳門特別行政區科學技術獎-自然科學獎二等獎
項目名稱：基於人工智慧和多組學的新型冠狀病毒感染的機制和診治的關鍵技術研究
3. 2018 年度國家教育部高等學校科學研究優秀成果獎-自然科學獎一等獎

項目名稱：抑制細胞增殖與分化異常的新機制研究

4. 2017 澳門科技大學中珠醫療生命科學科研一等獎（個人獎）

5. 2016 澳門科技大學中銀最佳學術研究獎（個人獎）

6. 2016 年度澳門特別行政區科學技術獎-自然科學獎一等獎

項目名稱：類風濕關節炎的發病新機制和治療新途徑

7. 2014 年度國家教育部高等學校科學研究優秀成果獎-自然科學獎一等獎

項目名稱：中醫藥整體治療的網路調節機理研究

指導研究生所獲獎勵

1. 劉娟 2020 年澳門研究生（博士）科技研發獎
2. 劉娟 2020 年澳門高等院校博士後專項資助計畫
3. 楊芬 2016 世界生命科學大會 最佳海報獎

學術雜誌編委

1. Frontiers in Immunology 編委
2. Microstructures 編委
3. MedComm - Future Medicine 副主編

學術兼職

1. 世界中醫藥學會聯合會中藥免疫專業委員會 常務理事
2. 中國生物醫學工程學會免疫治療工程分會 委員
3. 中國抗炎免疫藥學專業委員會 委員
4. 中國中西結合學會臨床藥理與毒理分會 委員

授權專利

- 1) Novel binding site of IKK-beta. Australian Innovation Patent No. 2013101130; Granted on 5 Sept 2013.
- 2) Development of a new formula overcoming thymus atrophy with concomitantly enhancement of anti-inflammatory effect of dexamethasone, Australian Innovation Patent No. 2014100379; Granted on 1 May 2014.
- 3) Development of a new formula overcoming thymus atrophy with concomitantly enhancement of anti-inflammatory effect of dexamethasone, US Utility Patent No. 9,018,196; Granted on 28 Apr 2015.

- 4) Isoliquiritigenin suppresses human T lymphocyte activation via targeting on cysteine 46 of IkB α Kinase. Australian Innovation Patent No. 2015100662; Granted on 28 May 2015.
- 5) Limonoids for treating autoimmune diseases. Australian Innovation Patent No. 2017100026; Granted on 9 Jan 2017.
- 6) Method to treat anaphylactoid reaction; Australian Innovation Patent No. 2017100973; Granted on 17 July 2017.
- 7) Method of treating rheumatoid arthritis. Australian Innovation Patent No. 2017101103; Granted on 14 August 2017.
- 8) Method of treating an autoimmune disease. Australian Innovation Patent No. 2017101742; Granted on 12 Dec 2017.
- 9) Limonoids for treating autoimmune diseases. US Utility Patent No 9,901,566; Granted on 27 Feb 2018.
- 10) Transgenic model for delay-type hypersensitivity (DTH) and use thereof, US Utility Patent No 9,955,676; Granted on 2 May 2018.
- 11) Application of limonoids in autoimmune diseases, China Patent Publication No. CN 108371659 B Granted on 28 Oct, 2022

論文發表

- 1) Wang MM, Zhao Y, Liu J, Tang Y, Fan R, Guo Z, **Li T**, The role of the cGAS-STING signaling pathway in viral infections, inflammatory and autoimmune diseases. *Acta Pharmacol Sin*, *Acta Pharmacol Sin*. 2024 Jun 1.
- 2) Wang X, Li J, Chen R, **Li T**, Chen M. Active Ingredients from Chinese Medicine for Combination Cancer Therapy. *Int J Biol Sci*. 2023 Jul 9;19(11):3499-3525.
- 3) Ji KL, Tang YQ, Guo ZY, GongPan PC, Sun P, Lu JM, Dai MY, **Li T**. Natural Geranylated Sulfur-Containing Amides with Inhibitory Effect on Th17 Differentiation. *Chem Biodivers*. 2023 Jun;20(6):e202300373. doi: 10.1002/cbdv.202300373. Epub 2023 May 22.
- 4) Zhao Y, Jin H, Lei K, Bai LP, Pan H, Wang C, Zhu X, Tang Y, Guo Z, Cai J, **Li T**. Oridonin inhibits inflammation of epithelial cells *via* dual-targeting of CD31 Keap1 to ameliorate acute lung injury. *Front Immunol*. 2023 Apr 6;14:1163397.
- 5) Zhang Q, Hao S, Li L, Liu M, Huo C, Bao W, Cheng H, Fung H, Wong T, Wu W, Leung P, Wang S, **Li T**, Zhang G, Li M, Zhao Z, Jia W, Bian Z, Mitchison T, Zhang J, Lyu A, Han Q. M cells of mouse and human Peyer's patches mediate the lymphatic absorption of an Astragalus hyperbranched heteroglycan. *Carbohydr Polym*. 2022 Nov 15;296:119952. [IF: 10.723, ranked 3rd in 90 journals (2.78%) of category POLYMER SCIENCE]
- 6) Wang Y, Deng W, Liu J, Yang Q, Chen Z, Su J, Xu J, Liang Q, **Li T**, Liu L, Li X. IKK β increases neuropilin-2 and promotes the inhibitory function of CD9+ Bregs to control allergic diseases. *Pharmacol Res*. 2022 Nov;185:106517. [IF: 10.334, ranked 15th in 279 journals (5.38%) of category PHARMACOLOGY & PHARMACY]
- 7) Zhang Q, Li L, Hao S, Liu M, Huo C, Wu J, Liu H, Bao W, Zheng H, Li Z, Cheng H, Fung H,

Wong T, Leung P, Wang S, Li T, Zhang G, Li M, Zhao Z, Jia W, Bian Z, Mitchison T, Zhang J, Lyu A, Han Q, Sun H. A lymphatic route for a hyperbranched heteroglycan from Radix Astragali to trigger immune responses after oral dosing. *Carbohydr Polym.* 2022 Sep 15;292:119653. [IF: 2021: 10.723, ranked 3rd in 90 journals (2.78%) of category POLYMER SCIENCE]

8) Wang M, Zhao Y, Liu J, Li T. SARS-CoV-2 modulation of RIG-I-MAVS signaling: Potential mechanisms of impairment on host antiviral immunity and therapeutic approaches. *MedComm Futur Med.* 2022 Sep;1(2):e29.

9) Zheng Z, Xu T, Liu Z, Tian W, Jiang ZH, Zhu GY, Li T, Gao J, Bai LP. Cryptolepine suppresses breast adenocarcinoma via inhibition of HIF-1 mediated glycolysis. *Biomed Pharmacother.* 2022 Sep;153:113319. [IF: 7.419, ranked 24th in 361 journals (6.51%) of category PHARMACOLOGY & PHARMACY]

10) Liu J, Zhuang YX, Wu J, Wu Q, Liu MX, Zhao Y, Liu ZQ, Wang CY, Lu LL, Meng YJ, Lei KW, Li XJ, Wu QB, Leung ELH, Guo ZY, Liu L[#], Li T[#], IKK β mediates homeostatic function in inflammation via competitively phosphorylating AMPK and I κ B α . *Acta Pharm Sin B.* 2022 Feb;12(2):651-664. (#corresponding author, cover story) [IF: 14.907, ranked 8th in 279 journals (2.69%) of category PHARMACOLOGY & PHARMACY]

11) Xiao RP, Lei KW, Kuok HH, Deng WD, Zhuang YX, Tang YQ, Guo ZY, Qin HY[#], Bai L-P[#], Li T[#], Synthesis and identification of lithocholic acid 3-sulfate as ROR γ t ligand to inhibit Th17 cell differentiation. *J Leukoc Biol.* 2022 Feb 21. doi: 10.1002. (#corresponding author) [IF: 6.011, ranked 23th in 78 journals (28.85%) of category HEMATOLOGY]

12) Huang X, Chen L, Zhang Y, Zhou S, Cai HH, Li T, Jin H, Cai J, Zhou H, Pi J. GE11 Peptide Conjugated Liposomes for EGFR-Targeted and Chemophotothermal Combined Anticancer Therapy. *Bioinorg Chem Appl.* 2021 Mar 31;2021:5534870. [IF: 4.724, ranked 6th in 46 journals (13.04%) of category CHEMISTRY, INORGANIC & NUCLEAR]

13) Wang J, Xu C, Chen Y, Shao L, Li T, Fan X, Yu L, Zhang R, Chen B, Chen H, Sui X, Leung EL, Wu Q. β -elemene enhances the antitumor activity of erlotinib by inducing apoptosis through AMPK and MAPK pathways in TKI-resistant H1975 lung cancer cells. *J Cancer.* 2021 Feb 22;12(8):2285-2294. [IF: 4.478, ranked 115th in 245 journals (46.73%) of category ONCOLOGY]

14) Zheng Z, Zhou Z, Zhang Q, Zhou X, Yang J, Yang MR, Zhu GY, Jiang ZH, Li T, Lin Q, Bai LP. Non-classical cardenolides from *Calotropis gigantea* exhibit anticancer effect as HIF-1 inhibitors. *Bioorg Chem.* 2021 Feb 18;109: 104740. [IF: 1.254, ranked 52nd in 63 journals (81.75%) of category CHEMISTRY, ORGANIC]

15) Ge ZP, Fan YY, Deng WD, Zheng CY, Li T, Yue JM. Cephalodiones A-D: Compound Characterization and Semisynthesis by [6+6] Cycloaddition. *Angew Chem Int Ed Engl.* 2021 Feb 2. doi: 10.1002/anie.202015332. [IF: 16.823, ranked 15th in 179 journals (8.1%) of category CHEMISTRY, MULTIDISCIPLINARY]

16) Liao K, Su X, Lei K, Liu Z, Lu L, Wu Q, Pan H, Huang Q, Zhao Y, Wang M, Cai J, Liu L[#], Li T[#]. Sinomenine protects bone from destruction to ameliorate arthritis via activating p62Thr269/Ser272-Keap1-Nrf2 feedback loop. *Biomed Pharmacother.* 2021 Jan 1;135:111195. (#co-corresponding author) [IF: 7.419, ranked 24th in 361 journals (6.51%) of category PHARMACOLOGY & PHARMACY]

17) Huang X, Cai H, Zhou H, Li T, Jin H, Evans CE, Cai J, Pi J. Cobalt oxide nanoparticle-synergized protein degradation and phototherapy for enhanced anticancer therapeutics. *Acta Biomater.* 2021 Feb;121:605-620. [IF: 10.633, ranked 13th in 98 journals (12.76%) of category ENGINEERING, BIOMEDICAL]

- 18) Wu Q, Yao X, Chen H, Liu Z, **Li T**, Fan X, Zhang G, Yu L, Chen M, Xu C, Zhang R, Chen B, Sui X, Leung EL. Long-term aspirin use for primary cancer prevention: An updated systematic review and subgroup meta-analysis of 29 randomized clinical trials. *J Cancer*. 2020 Sep 14;11(21):6460-6473. [IF: 4.478, ranked 115th in 245 journals (46.73%) of category ONCOLOGY]
- 19) Ji KL, Fan YY, Kuok HH, Liu QF, **Li T**, and Jian-Min Yue, Macrocyclic Nonapeptides Incorporating Uncharacterized Amino Acids with Inhibitory Effects on Th17 Differentiation. *CCS Chemistry*. 2020, 3 (2): 844-858.
- 20) Xu C, Yao XJ, **Li T**, Wang J, An B, Wang J, Sui XB, Leung ELH, Wu QB, Pretreatment neutrophil-to-lymphocyte ratio is a predictive biomarker for EGFR TKI-treated patients with advanced EGFR-mutant Non-small cell lung cancer. *Transl Cancer Res*. 2020 Apr;9(4):2875-2883. [IF: 0.496, ranked 242nd in 245 journals (98.57%) of category CHEMISTRY, MULTIDISCIPLINARY]
- 21) Chen H, Yao X, **Li T**, Lam CW, Zhang R, Zhang H, Wang J, Zhang W, Leung EL, Wu Q. Compound Kushen injection combined with platinum-based chemotherapy for stage III/IV non-small cell lung cancer: A meta-analysis of 37 RCTs following the PRISMA guidelines. *J Cancer*. 2020 Jan 20;11(7):1883-1898. [IF: 4.478, ranked 115th in 245 journals (46.73%) of category ONCOLOGY]
- 22) Zou B*, Zhang Y*, **Li T***, Liu J, Deng W, Tan Y, Yang Q, Ding Z, Liao K, Xu J, Pan H, Li X, Liu L. A mutation of cysteine 46 in IKK- β promotes mPGES-1 and caveolin-1 expression to exacerbate osteoclast differentiation and osteolysis. *Biochem Pharmacol*. 2019 Dec 13:113762. (*co-first author). [IF: 6.100, ranked 46th in 279 journals (16.31%) of category PHARMACOLOGY & PHARMACY]
- 23) Chen H, Yao X, **Li T**, Lam CW, Zhang H, Wang J, Zhang W, Leung EL, Wu Q. Compound Kushen injection plus platinum-based chemotherapy for stage IIIB/IV non-small cell lung cancer: A protocol for meta-analysis of randomized clinical trials following the PRISMA guidelines. *Medicine (Baltimore)*. 2019 Dec;98(52):e18552. [IF:1.817, ranked 123th in 172 journals (71.51%) of category MEDICINE, GENERAL & INTERNAL]
- 24) Chen H, Yao X, Liu Z, **Li T**, Xu C, Wang J, Sui X, Leung EL, Wu Q. Efficacy and safety of Shenqi Fuzheng injection combined with platinum-based chemotherapy for stage III/IV non-small cell lung cancer: A protocol for systematic review and meta-analysis of randomized controlled trials. *Medicine (Baltimore)*. 2019 Sep;98(39):e17350. [IF:1.817, ranked 123th in 172 journals (71.51%) of category MEDICINE, GENERAL & INTERNAL]
- 25) Wu Q, Chen H, Yao X, Li T, Xu C, Wang J, Sui X, Leung EL. Long-term aspirin use for cancer primary prevention: A protocol for updated systematic review and subgroup meta-analysis of randomized clinical trials. *Medicine (Baltimore)*. 2019 Sep;98(39):e17382. [IF:1.817, ranked 123th in 172 journals (71.51%) of category MEDICINE, GENERAL & INTERNAL]
- 26) Chen Q, Liu J, Zhuang Y, Bai LP, Yuan Q, Zheng S, Liao K, Khan MA, Wu Q, Luo C, Liang L, Wang H, **Li T**[#]. Identification of an IKK β inhibitor for inhibition of inflammation in vivo and in vitro. *Pharmacol Res*. 2019 Aug 31:104440. (#co-corresponding author). [IF: 10.334, ranked 15th in 279 journals (5.38%) of category PHARMACOLOGY & PHARMACY]
- 27) Pan H, Guo R, Ju Y, Wang Q, Zhu J, Xie Y, Zheng Y, **Li T**, Liu Z, Lu L, Li F, Tong B, Xiao L, Xu X, Leung EL, Li R, Yang H, Wang J, Zhou H, Jia H, Liu L. A single bacterium restores the microbiome dysbiosis to protect bones from destruction in a rat model of rheumatoid arthritis. *Microbiome*. 2019 Jul 17;7(1):107. [IF: 16.837, ranked 9th in 137 journals (6.57%) of category MICROBIOLOGY]
- 28) Liu J, Bai LP, Yang F, Yao XJ, Lei K, Lam, Christopher Wai Kei; Wu QB, Zhuang YX, Xiao RP, Liao KS, Kuok HH, **Li T**[#], Liu L[#]. Potent antagonists of ROR γ t, cardenolides from *Calotropis*

gigantea, exhibit discrepant effects on the differentiation of T lymphocyte subsets. (#co-corresponding author). *Mol Pharm.* 2019 Feb 4;16(2):798-807. (#co-corresponding author). [IF: 5.364, ranked 65th in 279 journals (23.30%) of category PHARMACOLOGY & PHARMACY]

29) Fan DS, Li T, Zheng Z, Zhu GY, Yao X, Jiang ZH, Bai LP. Macrolide sesquiterpene pyridine alkaloids from the stems of *Tripterygium regelii*. *J Nat Med.* 2018 Aug 13. doi: 10.1007/s11418-018-1232-8. [IF: 3.192, ranked 40th in 63 journals (63.49%) of category CHEMISTRY, MEDICINAL]

30) Li T*, Yan F*, Meng X, Wang J, Ting Kam RK, Zeng X, Liu Z, Zhou H, Yang F, Ren R, Liao K, Liu L. Improvement of glucocorticoid-impaired thymus function by dihydromyricetin via up-regulation of PPAR γ -associated fatty acid metabolism. *Pharmacol Res.* 2018 Nov;137:76-88. (*co-first author). [IF: 10.334, ranked 15th in 279 journals (5.38%) of category PHARMACOLOGY & PHARMACY]

31) Yang F Su X, Pi J, Liao K, Zhou H, Sun Y, Liu J, Guo X, Jiang J, Jin H, Cai J, Li T[#], Liu L[#], Atomic force microscopy technique used for assessment of the anti-arthritis effect of licochalcone A via suppressing NF- κ B activation, *Biomed Pharmacother.* 2018 Jul;103:1592-1601. (#co-corresponding author). [IF: 7.419, ranked 24th in 361 journals (6.51%) of category PHARMACOLOGY & PHARMACY]

32) Pan H, Guo R, Zhu J, Wang Q, Ju Y, Xie Y, Zheng Y, Wang Z, Li T, Liu Z, Lu L, Li F, Tong B, Xiao L, Xu X, Li R, Yuan Z, Yang H, Wang J, Kristiansen K, Jia H, Liu L. A gene catalogue of the Sprague-Dawley rat gut metagenome. *Gigascience.* 2018 May 1;7(5). [IF: 7.658, ranked 13th in 74 journals (17.57%) of category MULTIDISCIPLINARY SCIENCES]

33) Su X*, Li T*, Liu Z, Huang Q, Liao K, Ren R, Lu L, Qi X, Wang M, Chen J, Zhou H, Leung EL, Pan H, Liu J, Wang H, Huang L, Liu L. Licochalcone A activates Keap1-Nrf2 signaling to suppresses arthritis via phosphorylation of p62 at serine 349. *Free Radic Biol Med.* 2017 Dec 9. pii: S0891-5849(17)31236-4. (*co-first author). [IF: 8.101, ranked 22nd in 146 journals (15.07%) of category ENDOCRINOLOGY & METABOLISM]

34) Jin H, Pi J, Zhao Y, Jiang J, Li T, Zeng X, Yang P, Evans CE, Cai J. EGFR-targeting PLGA-PEG nanoparticles as a curcumin delivery system for breast cancer therapy. *Nanoscale.* 2017 Nov 2;9(42):16365-16374. [IF: 8.307, ranked 68th in 414 journals (16.43%) of category MATERIALS SCIENCE, MULTIDISCIPLINARY]

35) Zhou H, Liu JX, Luo JF, Cheng CS, Leung EL, Li Y, Su XH, Liu ZQ, Chen TB, Duan FG, Dong Y, Zuo YH, Li C, Lio CK, Li T, Luo P, Xie Y, Yao XJ, Wang PX, Liu L. Suppressing mPGES-1 expression by sinomenine ameliorates inflammation and arthritis. *Biochem Pharmacol.* 2017 Oct 15;142:133-144. [IF: 6.100, ranked 46th in 279 journals (16.31%) of category PHARMACOLOGY & PHARMACY]

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參與編寫專著

Chapter 12 Stress and Inflammation. Oxidative Stress. 2021 April 26, Springer

學術會議主持人

- 1) Section Chairman, The 5th Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Changsha, China. Dec 13, 2020.
- 2) Section Chairman, The 4th Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Tianjing, China. Nov 16, 2019.
- 3) Section Chairman, 11th Annual Meeting of Chinese Society for Immunology. Hefei, China. 4-7 Nov, 2016
- 4) Section Chairman, The 2nd Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Macau, China. 3-4 Dec. 2015
- 5) Section Chairman, Inaugural Conference of the Specialty Committee on Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the First Annual Meeting. 21-23 Nov. 2014. Guangzhou, China.

主要學術報告

- 1) Discovery and application of artificial intelligence in drug discovery. The 2nd "Guangdong-Hong Kong-Macao Greater Bay Area Gynecological Endocrinology Diagnosis and Treatment and Related Scientific and Technological Achievements Transformation Forum", Online, Dec 09-10, 2023.
- 2) H-PGDS-PGD2 axis promotes Th17 response to exacerbate autoimmunity, KiiM retreat 2023, Oct 5, 2023.10.05, Stockholm, Sweden
- 3) ROR γ t antagonists attenuate autoimmune disease with a novel allosteric site via deep learning and molecular dynamic simulation, Biophysical Society, July 20-22, 2023, Chang Sha, China

- 4) Traditional Chinese medicine applied as the key to open the door to immunity, 2023 GuangZhou Technology Conference, May 26, 2023, GuangZhou, China
- 5) Study on the mechanism and therapeutic strategy of innate immunity in inflammatory bowel disease. The 5th Guangdong-Hong Kong-Macao Symposium of gut microbiome, Online, Jan 6, 2023
- 6) Identification a novel molecular target of drug discovery for the treatment of autoimmune diseases. The 1st Annual Meeting Immunotherapy Branch of Chinese Society of Biomedical Engineering, Online, 2-3 Dec, 2022.
- 7) The application of AI in the drug discovery. 2022 international symposium on drug-drug interaction and clinical rational drug usage seminar on theory and practice of individualized therapeutic drug monitoring. Online, Nov 17-18, 2022.
- 8) Study on the effects and mechanisms of combination of Chinese and Western Medicines on the immune system, Symposium of inheritance and innovation of traditional Chinese medicine and translation of scientific and technological achievements in Guangdong-Hong Kong-Macao Greater Bay Area, Oct 20, 2022
- 9) Identification a novel drug target to treat autoimmune disease. The 14th National Symposium on Anti-inflammation and Immunopharmacology, Huangshan, 8 Aug, 2022.
- 10) The novel oral medications in the treatment of multiple sclerosis, 2021, Tech Week cum Innovation Exhibition, Macau, Dec 10-12, 2021.
- 11) Studies on the role and therapeutic strategy of cGAS in rheumatoid arthritis. The 13th National Symposium on Anti-inflammation and Immunopharmacology, Nanjing, 24 Sept, 2021.
- 12) Study on the role of protein homeostasis in the autoimmune diseases and therapeutic strategy, The Annual Meeting of the Specialty Committee of Immunotherapy. Online, Aug 8-9, 2021.
- 13) Identification of novel binding sites for discovery ROR γ t antagonist to treat Th17-driven autoimmune diseases, State Key Laboratory of Pharmacy Alliance Meeting, Suzhou, China, Dec 14, 2020
- 14) The role of IKK β in regulation of inflammation, The 12th National Symposium on Anti-inflammation and Immunopharmacology, GuangZhou, China, Dec 13, 2019.
- 15) The dual role of IKK β in inflammation. The 4th Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Tianjing, China. Nov 16, 2019.
- 16) Identification of a novel strategy to treat multiple sclerosis, The Summit Forum of Medical Immunology and Clinical Application, Nanjing, China, Nov 09, 2019.
- 17) Study on the immune-regulation and mechanism of combination of traditional Chinese and

- western medicine. The 2th Annual Meeting of the Specialty Committee of Hospital Pharmacy the Cross-Strait Medical and Health Exchange Association. Shanghai, China, Oct 20-21, 2019
- 18) Investigation of the role of experimental animal in the pathogenesis and invention in multiple sclerosis. The 19th South Central China Exchange Conference on Science and Technology of experimental animal, Shantou, China, Sept 06-07, 2019.
 - 19) Investigation of the inhibitory effect on Th17 differentiation and underlying mechanism of lead compounds from Chinese herbs, NSFC-FDCT Frontier Discipline Forum: Food Toxicology and Nutritional Intervention, GuangZhou, China, Aug 05, 2019.
 - 20) identification novel role of IKK β in inflammation, 10 th Symposium on Immunology of Traditional Chinese Medicine. Chendu, China, July 19, 2019.
 - 21) Identification of a ROR γ t-targeted therapeutic agent attenuating autoimmune disease via directly binding to novel site, the Cross-Strait Forum on Immunolgy, Macau, China, Oct 14-15, 2018.
 - 22) The crucial role of experimental animal in identifying the molecular target of TCM. 2018 Annual Meeting of Guangdong Association for Laboratory Animal Science cum the 1st South Central China Exchange Conference on Science and Technology of experimental animal, Guangzhou, China, Dec 21, 2018.
 - 23) Identification immunosuppressive compounds from natural products. World Life Science Conference, BeiJing, Oct 26-30, 2018.
 - 24) Identification of a novel ROR γ t antagonist from Chinese medicinal plant with specific inhibitory effect on Th17 differentiation in vivo and in vitro. The 4th Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Nanjing, China. Nov 2-4, 2017.
 - 25) Immunosuppressive effect and mechanistic study of Chinese herbal medicine, 9th Symposium on Immunology of Traditional Chinese Medicine. Lanzhou, China, July 19-21, 2017.
 - 26) Natural Compounds Suppress Th17 Differentiation by Antagonizing ROR γ t Activity. 11th Annual Meeting of Chinese Society for Immunology. Hefei, China. Nov 4-7, 2016.
 - 27) Modulation of metabonomics characteristics by anti-arthritic Chinese medicinal formula Guanjiakang. The 3rd Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Maniz, Germany. Aug 7-11, 2016.
 - 28) Dihydromyricetin inhibits inflammatory responses via inhibition of I κ B $\square$ -NF- κ B signaling pathway. The 2nd Annual Meeting of the Specialty Committee of Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the Cross-Strait Forum on Treatment of Rheumatism with Chinese Medicine. Macau, China. Dec 4, 2015.
 - 29) Immunosuppressive effect and mechanistic study of Chinese herbal medicine, 8th Symposium on

Immunology of Traditional Chinese Medicine. Zhenzhou, China, Sept 19-21, 2015.

- 30) Active Compounds Derived from Liquorice Suppresses human T lymphocyte activation via Modulation of Cysteine 46 of I κ B α Kinase, International Symposium on Phytochemicals in Medicine and Food (ISPMF), Shanghai, China, June 26-29, 2015.
- 31) DHN enhances the inflammatory effect of glucocorticoid, simultaneously prevents glucocorticoid-induced thymus atrophy via regulation of PPAR γ . The Inaugural Conference of the Specialty Committee on Immunology of Traditional Chinese Medicine of the World Federation of Chinese Medicine Societies cum the First Annual Meeting. Guangzhou, China, Nov 21-23, 2014.
- 32) Identification of active compound from Chinese medicine on suppression of human T lymphocyte activation, Forum on Quality Research and Drug Discovery in Chinese Medicines, Macau, April 16-17, 2013.

學術雜誌審稿人

- 1) Biomaterials, 2023-
- 2) Acta Pharmaceutica Sinica B, 2022-
- 3) Acta Pharmacologica Sinica, 2022 –
- 4) Food & Function, 2021-
- 5) Journal of Leukocyte Biology, 2021-
- 6) International Immunopharmacology, 2019 –
- 7) Frontiers in Pharmacology (Review Editor), 2019
- 8) Chinese Medicine, 2019-
- 9) Journal of Ethnopharmacology, 2019-
- 10) Chinese Journal of Natural Medicines, 2021-
- 11) International Journal of Biological Macromolecules, 2021-
- 12) Biomedicine & Pharmacotherapy, 2018-
- 13) Phytomedicine, 2018-
- 14) Biomedical and Environmental Sciences, 2017-
- 15) Archives of Dermatological Research, 2017-
- 16) Pharmacological Research, 2016 -
- 17) Plos One, 2015-