

黃錦偉教授



職稱: 教授

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簡介:

黃錦偉教授於 2006 年在香港大學取得化學博士學位，在香港浸會大學中醫藥學院先後擔任博士後研究員及研究助理教授，致力於抗炎及抗癌研究。2011 年 9 月加入澳門科技大學中藥機制與質量全國重點實驗室助理教授，並擔任組學技術與創新藥物研究中心副主任一職，2015 年破格升為副教授，2022 年晉升為正教授。現擔任澳門科技大學中藥機制與質量全國重點實驗室助理主任及埃爾文內爾博士生物物理與創新藥物實驗室執行主任；同時亦擔任澳門高等教育發展促進會學術部副部長一職。

黃教授的研究範疇主要在炎症及腫瘤分子生物學，以及化學分子生物學與結構活性關係等。黃教授近年更專注於研究抗癌基因 p53, 14-3-3 及 P-糖蛋白導致關節炎耐藥等問題，同時亦專注研發關節炎成纖維滑膜細胞的抗原特異性，及與葡萄牙頂尖科研機構 GIMM 合作利用 CAR-Treg 療法解決關節炎難治性問題。最近更成功破解中老年類風關高發率之謎，並將研究成果發表在 *Nature Communications*。黃教授擔任 *Frontiers in Pharmacology* 及 *Phytomedicine* 的副編輯；近十年間共獲資助項目總金額超過二千八百萬元澳門幣；並分別於多個國際期刊上發表超過 220 篇 SCI 研究文章。黃博士亦是 40 個國際專利擁有者之一。在 2013-2025 年間，分別榮獲澳門中銀學術研究優秀獎、教育部科學研究優秀成果獎(自然科學獎一等獎(團體獎)、並先後獲得澳門特別行政區科學技術獎自然科學獎二等獎及一等獎(團體獎)。同時亦是 2025 年全球前 2% 年度及終身榜單頂尖科學家(STANFORD UNIVERSITY)。

教研領域

教學科目: 生物化學、現代生物科技、中藥藥理實驗方法學、藥理實驗方法學、分子及生物學、臨床藥理學、藥理學實驗、生物化學及分子生物學、生物化學及分子生物學實驗、中醫學 / 生物醫學專題項目之醫學實驗方法

研究方向: 炎症及癌症、分子生物學、化學生物學

學歷

2006. 9 香港大學化學博士學位

2002. 8 香港科技大學生物學碩士學位

1999. 6 香港科技大學生物化學學士學位

教學經驗

2022.7 - 今 澳門科技大學中藥機制與質量全國重點實驗室教授

2015.7 - 2022.6 澳門科技大學中藥機制與質量全國重點實驗室副教授

2011.9 - 2015.6 澳門科技大學中藥機制與質量全國重點實驗室助理教授

2009.10 - 2011.8 香港浸會大學中醫藥學院研究助理教授

2006.12 - 2009.10 香港浸會大學中醫藥學院博士後研究員

學術成果(近 5 年)

1. Ning Ma, Yulin Xu, Dingqi Zhang, Huan-Tian Zhang, Weidan Luo, Yang Cao, **Vincent Kam Wai Wong***. Targeting age-related cell-free DNA for prevention, early diagnosis and treatment of rheumatoid arthritis. *Autoimmun Rev.* 2025 Nov 28:103961.
2. Xiaohe Wang, Fangji Luo, Guiqiang Miao, Boyuan Zheng, Chenhao Xu, **Vincent Kam Wai Wong**, Yuanshu Peng, Rong Zeng, Jinzhu Pang, Xuguang Zhang, Zhenyu Ju, Zhengang Zha, Xiaogang Wang, Xiaofei Zheng, Huan-Tian Zhang. Loss of Brd4 alleviates pathological bone loss via Slc9b2 suppression in osteoclastogenesis. *Clin Transl Med.* 2025 Oct;15(10):e70496.

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4. Wanyu Wu, Yuping Wang, Bo Qin, Xiongfei Xu, Nick Wang, Wuyan Zheng, Xiaoyun Yun, Betty Yuen-Kwan Law, Chang Chen*, Vincent Kam-Wai Wong*. Far-infrared irradiation ameliorates neurological damage in cerebral ischemic rats by restoring dynamic mitochondrial function. *Neural Regeneration Research*. Accepted.
5. Lu Xu, Xinjie Zhang, Yuxin Feng, Vincent Kam Wai Wong*, Wang Yao*, Ying Feng*. Metabolic Syndrome Worsens Sarcopenia and Reduces Nutritional Therapy Benefits in Advanced Gastric Cancer. *Frontiers in Nutrition*. 12:1615376. doi: 10.3389/fnut.2025.1615376
6. Lu Xu, Fangyue Xu and Vincent Kam Wai Wong*. Ruxolitinib Alleviates DSS-Induced Acute Ulcerative Colitis by Inhibiting STAT1 Phosphorylation and Reducing MDSC Infiltration. *Front. Pharmacol*. 2025 Aug 29;16:1572534.
7. Lu Xu, Xinjie Zhang, Yao Wang*, Vincent Kam Wai Wong*. Clinical Characteristics and Immunotherapy Efficacy in Advanced Lung Cancer Patients with Immune Checkpoint Inhibitor-Related Adrenal Insufficiency. *Medicine*. 2025 Aug 22;104(34):e43983.
8. Baixiong Huang, Jerome P. L. Ng, Linna Wang, Jiujie Yang, Yiting Li, Qin Bo, Wei Zhang, Jing Zhong, Xi Chen, Yuanqing Qu, Dingqi Zhang, Wanyu Wu, Wuyan Zheng, Xiongfei Xu, Weidan Luo, Yuping Wang, Betty Yuen Kwan Law, Wenfeng Liu*, Paolo Coghi*, Vincent Kam Wai Wong*. Celastrol derivatives ameliorate arthritis in AIA rats via modulating calcium signaling. *Phytomedicine*. 146 (2025) 157110.
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10. Minsong Guo, Zhengqin Wang, Xiaogang Zhou, Chonglin Yu, Jianming Wu, Lu Yu, Jianing Mi, Fang Ren, Betty Yuen Kwan Law, Hudan Pan, Vincent Kam Wai Wong*, Dalian Qin*, Anguo Wu*. Ciliatoside A attenuates neuroinflammation in Alzheimer's disease by activating mitophagy and inhibiting NLRP3 inflammasome activation. *Phytomedicine*. 145 (2025) 156928.

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13. Paolo Coghi§, Ivan A. Yaremenko§, Parichat Prommana, Ali Adnan Nasim, Yulia Yu. Belyakova, Ruihong Chen, Peter S. Radulov, Chairat Uthaipibull*, Alexander O. Terent'ev* and **Vincent Kam Wai Wong***. N-substituted Bridged Azaozonides as Promising Antimalarial Agents. *ChemMedChem*. 2025, e202500181.
14. 蔣蔓靈，張 雷，劉 瑤，李國平，**黃錦偉***. 基於網路藥理學與分子對接探討蟲草素治療哮喘的作用機制. *中國藥理學通報*. (Accepted)
15. Ling Wang, Lingtan Kong, Ding-qi Zhang, Liuqi Ye, Sang-cuo Nao, Daniel Chan, Xueying Li, Yutong Peng, Lijun Yang, Chun-Yuen Wong, **Vincent Kam Wai Wong***, Wanhe Wang*, Hui Chao*, Chung-Hang Leung*. Inhibiting glycolysis and disrupting the mitochondrial HK2-VDAC1 protein-protein interaction using a bifunctional lonidamine-conjugated metal probe for combating triple-negative breast cancer. *Journal of the American Chemical Society*. <https://doi.org/10.1021/jacs.5c04233>
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 41. Jialing Shen, Cheng Zhang, Yong Liu, Qianqian Wang, Pengyun Li, Runyu Liu, **Vincent Kam Wai Wong**, Chunxiang Zhang, xiaolei Sun. L-type calcium ion channel-mediated activation of autophagy in vascular smooth muscle cells via thonningianin A (TA) alleviates vascular calcification in type 2 diabetes mellitus. *European Journal of Pharmacology*. 2023 Nov 15:959:176084.
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43. Jerome P. L. Ng§, Yun Xiao Yun§, Ali Adnan Nasim, Alessandra Gianoncelli, Betty Yuan Kwan Law, Giovanni Ribaud*, **Vincent Kam Wai Wong*** and Paolo Coghi*. Synthesis, docking studies and biological evaluation of 1H-1,2,3-triazole-7-chloroquinoline derivatives against SARS-CoV-2. *Bioorganic Chemistry*. 2023 Dec:141:106882.
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49. Feng-Dan Zhu†, Xue Chen†, Lu Yu†, Meng-Ling Hu, Yi-Ru Pan, Da-Lian Qin, Jian-Ming Wu, Ling Li, Betty Yuen-Kwan Law, **Vincent Kam-Wai Wong**, Xiao-Gang Zhou*, An-Guo Wu*, Dong-Sheng Fan*. Targeting autophagy to discover the Piper

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52. Yuan-Qing Qu^{a,b*}, Lin-Lin Song^{a*}, Su-Wei Xu^{a,c}, Margaret Sum Yee Yu^a, Onat Kadioglu^d, Francesco Michelangeli^e, Betty Yuen Kwan Law^a, Thomas Efferth^d, Christopher Wai-Kei Lam^{b#}, **Vincent Kam Wai Wong^{a#}**. Pomiferin targets SERCA, mTOR, and P-gp to induce autophagic cell death in apoptosis-resistant cancer cells, and reverses the MDR phenotype in cisplatin-resistant tumors *in vivo*. *Pharmacological Research*. 2023 May:191:106769.
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學術書籍

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Immunotherapeutic approaches of rheumatoid arthritis and the implication on novel interventions for refractoriness, *Immunotherapy*, Dr. Seyyed Shamsadin Athari (Ed.),

InTech, ISBN 978-953-51-6100-4. Accepted on 16-2-2018.

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Prof. Vincent Kam Wai Wong received both his B.S. degree (1999) and MPhil degree (2002) from Hong Kong University of Science and Technology. In 2006, he received his Ph.D. Degree from the University of Hong Kong and then worked as post-doctoral research fellow at School of Chinese Medicine in Hong Kong Baptist University for three years. In 2009, he was promoted to research assistant professor (RAP) in the same department and started his own research area. In 2011, he started to be an assistant professor in State Key Laboratory of Macau University of Science and Technology engaging in the research field of anti-inflammation and anti-cancer. In 2015, he achieved the special promotion standard to associate professor. In 2022, he was promoted as full professor. In 2026, Prof. Wong also serves as the Academic Deputy Director at the Macao Association for Higher Education Development.

Prof. Vincent Wong is experienced in cancer molecular biology, chemical biology and structural activity relationship, and IKK- β – NF- κ B signaling. His research focus on relationship between autophagy and multidrug-resistant, apoptosis-resistant anti-tumor effect via SERCA inhibition and AMPK activation. Recently, Prof. Wong deeply interested in the involvement of p53 and P-glycoprotein in drug-resistant phenotype of rheumatoid arthritis. Notably, their research team have recently unraveled the etiology behind the elevated incidence of rheumatoid arthritis in middle-aged and elderly populations and successful published the works in *Nature Communications*. In addition, with the support of Nobel Laureate Laboratory, he has been cooperating with an innovative technology brand “eefit” in Hong Kong to research and develop medical and health products, e.g. eefit essential oil for COVID-19. Furthermore, Prof. Wong has published over 220 peer-reviewed SCI journals including *Nature Communications*, *Autophagy*, *Cellular and Molecular Immunology*, *Angewandte chemie*, *Hepatology*, *Journal of Hepatology*, *Journal of Advanced Research*, *Clinical Cancer Research*, *Organic Letters*, *Cell Death and Disease*, *Cancer Letters*, *British Journal of Pharmacology*, *Pharmacological Research and etc.* He obtained more than 40 US, Australia and China patents with the works related to the discovery of novel IKK-beta inhibitor, novel autophagy enhancer for treatment of MDR cancer and neurodegenerative diseases. Since 2013, Prof. Wong achieved the Bank of China Excellent Research Award, First-class High Institute Natural Science Award in China, and Second and First-class Natural Science Award in Macao. Besides, he is one of the world top 2% scientists announced by Standard University (career-long).

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Selected Publications (Recent 5 years)

1. Ning Ma, Yulin Xu, Dingqi Zhang, Huan-Tian Zhang, Weidan Luo, Yang Cao, **Vincent Kam Wai Wong***. Targeting age-related cell-free DNA for prevention, early diagnosis and treatment of rheumatoid arthritis. *Autoimmun Rev.* 2025 Nov 28:103961.
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Book Chapter Publication

1. Betty Yuen-Kwan Law and **Vincent Kam-Wai Wong***.

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<http://www.intechopen.com/books/autophagy-in-current-trends-in-cellular-physiology-and-pathology/autophagy-in-multidrug-resistant-cancers>

Book chapter in “**Autophagy**” ISBN 978-953-51-4815-9.

2. Simon Wing Fai Mok, Betty Yuen Kwan Law, **Vincent Kam Wai Wong** and Liang Liu*

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InTech, ISBN 978-953-51-6100-4. Accepted on 16-2-2018.

3. Yu Zhong Peng, Li Jun Yang, Hang Hong Lo, Betty Yuen Kwan Law, **Vincent Kam Wai Wong***

Chapter 7: Tumor Therapeutic Modes

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Publisher: Springer Singapore; ISBN: 978-981-15-5158-1.

4. Jiu Jie Yang, Jerome P. L. Ng, Kaixi Zhang, Liang Liu*, **Vincent Kam Wai Wong***.

Pathogenic role of microRNA in rheumatoid arthritis. *Book Chapter in "Rheumatoid Arthritis"* edited by Prof. Hechmi Toumi (IntechOpen).

Accepted on 2-7-2021

ACADEMIC AWARDS

1. 2013 Bank of China Excellent Research Award Winner
2. 2014 Science and Technology Award of Macao Special Administrative Region-
Second-class Natural Science Award
3. 2015 高等學校科學研究優秀成果獎自然科學獎一等獎
4. 2016 Science and Technology Award of Macao Special Administrative Region-
First-class Natural Science Award
5. 2016 Zhongzhu Awards for Life Science Recognizing First Prize in Research
6. 2017 Zhongzhu Awards for Life Science Recognizing First Prize in Service
7. 2018 高等學校科學研究優秀成果獎自然科學獎一等獎
8. Zhongzhu Awards for Life Science Recognizing First Prize in Service 中珠醫療生
命科學科研 二等獎 2018
9. 澳門科技大學防疫抗疫應急優秀團隊個人評選及表彰獎勵計劃 (2020)

雲課堂教學傑出獎 (Outstanding Performance Award in Online Teaching)
10. 科學中國人雜誌訪問(2021年6月): 找准人生“靶点” 实现科研梦想
11. 2025 Bank of China Excellent Research Award Winner
12. 2025 教育部科學研究優秀成果獎自然科學研究成果獎一等獎