

黃錦偉教授



職稱: 教授

中藥機制與質量全國重點實驗室助理主任

埃爾文內爾博士生物物理與創新藥物實驗室
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學院/部門: 埃爾文內爾博士生物物理與創新藥物

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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。黃教授專長於研究細胞自噬與抗癌抗腦神經退化及對抗耐藥耐凋亡等問題，如天然小分子 SERCA 離子通道抑制劑及 AMPK 激活劑的抗耐藥耐凋亡作用；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，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* 的副編輯及 *Phytomedicine* 的編委；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.
3. Yiru Pan, Jing Wei, Dalian Qin, Xiaogang Zhou, Fei Gao, Lu Yu, Chi Feng, Jianing Mi, Jianming Wu, Betty Yuen Kwan Law, **Vincent Kam Wai Wong**, Hudan Pan, Bin Liao*, Xuecong Ren*, Fang Ren*, Anguo Wu*. Prosapogenin CP4 exacerbates mitophagy to induce apoptosis via AMPK-mTOR and PINK1/Parkin pathways in A549 cells. *Phytomedicine.* 2025 Sep 28:148:157333.
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.
9. Xiaoyun Yun, Jianhui Wu, Jie Zhou, Linlin Song, Yongpei Tang, Hanghong Lo, Jerome P.L. Ng, Menghan Liu, Zhikang Wang, Liqun Qu, Huimiao Wang, Ruilong Zhang, Cairen Wang, Linna Wang, Jiujie Yang, Sookja Kim Chung*, **Vincent Kam Wai Wong***, Betty Yuen Kwan Law*. Anxiolytic effects of corilagin by targeting Htr2c through activation of the TrkB/CREB/BDNF pathway. *Phytomedicine.* 145 (2025) 157029.
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.
11. Yuping Wang, Weidan Luo, Wanyu Wu, Chang Chen, Bo Qin, Xiongfei Xu, Yulin Xu, Linna Wang, Jiujie Yang, Wuyan Zheng, Xiaoyun Yun, Betty Yuen-Kwan Law, **Vincent Kam-Wai Wong***. TREX1 Activators: A Novel Therapeutic Strategy for Rheumatoid Arthritis Management via cfDNA Clearance. *Pharmacological Research*. 218 (2025) 107817.
 12. Wang Junyi, Zhang Lei, Liu Yingying, Liu Yao, Xiong Anying, Ran Qin, He Xiang, **Wong Vincent Kam Wai**, Combs Colin, Li Guoping, Wu, Min. Epithelial Atg5 Deficiency Intensifies Caspase-11 Activation, Fueling Extracellular mtDNA Release to Activate cGAS–STING–NLRP3 Axis in Macrophages During Pseudomonas Infection. *MedComm*. 10.1002/mco2.70239.
 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>
 16. Wenfeng He, Ruihong Chen, Guangliang Chen, Lihan Zhang, Yuhang Qian, Jie Zhou, Jianhua Peng, **Vincent Kam-Wai Wong***, Yong Jiang*. Identification and validation of prognostic genes related to histone lactylation modification in glioblastoma: an integrated analysis of transcriptome and single-cell RNA sequencing. *Journal of Cancer* 2025; 16(7):2145-2166.
 17. Lin Lin Song, Yong Pei Tang, Yuan Qing Qu, Yun Xiao Yun, Rui Long Zhang, Cai Ren Wang, **Vincent Kam Wai Wong**, Hui Miao Wang, Meng Han Liu, Li Qun Qu, Jian Hui Wu, Hang Hong Lo, Betty Yuen Kwan Law#. Exosomal delivery of rapamycin modulates blood-brain barrier penetration and VEGF axis in glioblastoma. *Journal of Controlled Release*. 2025 Mar 7:113605.
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- dan Luo, Betty Yuen Kwan Law, Hui-Miao Wang, Meng-Han Liu, Xiao-Yun Yun, Joyce Tsz Wai Chan, Wan Yu Wu, Yi Ting Li, Peter Kam Fai Cheung, Man Chon Pou, Kat Sang Ha, Wang Fai Ao Ieong, Chi Hou Leong, Kit Ieng Leong, Chan Wang Lei, Lek Hang Cheang# & Vincent Kam Wai Wong#. X-chromosome-linked miR-542-5p as a key regulator of sex disparity in rats with adjuvant-induced arthritis by promoting Th17 differentiation. *Biomarker Research* 2025 Mar 1;13(1):36.
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29. Xing Xia Wang†, Xiang Ji†, Jing Lin†, Io Nam Wong, Hang Hong Lo, Jian Wang, Liqun Qu, **Vincent Kam Wai Wong**, Sookja Kim Chung* and Betty Yuen Kwan Law*. GPCR-Mediated Natural 1 Products and Compounds: Potential Therapeutic Targets for the Treatment of Neurological Diseases. *Pharmacol Res.* 2024 Sep 4:208:107395.
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31. Ying-Qi Song*, Yiwen Xu*, Li Jun Yang*, Ling Wang* Shaozhen Jing, Guan-Jun Yang, Daniel Shiu-Hin Chan, Chun-Yuen Wong, Wanhe Wang#, **Vincent Kam Wai Wong#**, Chung-Hang Leung#. Probing the AFF4–CCNT1 protein-protein interaction using a metal-organic conjugate for treating triple-negative breast cancer. *Chemical Engineering Journal.* 496 (2024) 153685
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39. Yaling Zeng, Jerome P. L. Ng, Linna Wang, Xiongfei Xu, Betty Yuen Kwan Law, Guobing Chen, Hang Hong Lo, Lijun Yang, Jiujie Yang, Lei Zhang, Liqun Qu, Xiaoyun Yun, Jing Zhong, Ruihong Chen, Dingqi Zhang, Yuping Wang, Weidan Luo, Congling Qiu, Baixiong Huang, Wenfeng liu, Liang Liu*, **Vincent Kam Wai Wong***. Mutant p53^{R211*} ameliorates inflammatory arthritis in AIA rats via inhibition of TBK1-IRF3 innate immune response. *Inflammation Research*. 2023 Dec;72(12):2199-2219.
40. Lu Yu, Huimiao Wang, Qianfang Yao, Keru Li, Liqun Qu, Bin Tang, Wu Zeng, Gan Qiao, Yong Tang, Guishan Hu, Guangqiang Hu, **Vincent Kam-Wai Wong**, Qiong Wang, Dalian Qin, Jianming Wu, Xiaogang Zhou, Xiaolei Sun, Betty Yuen-Kwan Law*, Anguo Wu*. Thonningianin A from *Penthorum chinense* Pursh as a targeted inhibitor of Alzheimer's disease-related β -amyloid and Tau proteins. *Phytotherapy Research* Accepted
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.
42. Liu, menghan, Tang, Yong, Qu, Li Qun, Song, Lin Lin, Lo, Hang Hong, Zhang, Rui Long, Yun, Xiaoyun, Wang, Hui-Miao, Chan, Joyce Tsz Wai, Wu, Jian Hui, Wang, Cai Ren, **Wong, Vincent Kam Wai**, Wu, An Guo, Law, Betty Yuen Kwan. Raddeanin A isolated from *Anemone raddeana* Regel improves pathological and cognitive deficits of the mice model of Alzheimer's disease by targeting β -amyloidosis. *Phytomedicine*. 122 (2024) 155121.
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.
44. Richa Sharma, Lalit Yadav, Ali Adnan Nasim, Ravi Kant Yadav, Ruihong Chen, Neha Kumari, Fan Ruiqi, Ashoke Sharon, Nawal Kishore Sahu, Sirish Kumar Ippagunta, Paolo Coghi *, **Vincent Kam Wai Wong ***, Sandeep Chaudhary*. Chemo-/Regio-Selective Synthesis of Novel Functionalized Spiro[pyrrolidine-2,3'-oxindoles] under Microwave Irradiation and Their Anticancer Activity *Molecules*. 2023, 28(18), 6503.
45. Xingxia Wang†, Wei Hu†, Liqun Qu†, Jian Wang, Anguo Wu, Hang Hong Lo, Jerome P. L. Ng, Yong Tang, Xiaoyun Yun, Jianhui Wu, **Vincent Kam Wai Wong**, Sookja Kim Chung, Linna Wang, Weidan Luo, Xiang Ji, Betty Yuen Kwan Law*. Tricin promoted ATG-7 dependent autophagic degradation of α -synuclein and dopamine release for improving cognitive and motor deficits in Parkinson's disease. *Pharmacological Research* 2023 Oct:196:106874.
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- Xingxia Wang, Betty Yuen Kwan Law, Simon Wing Fai Mok, Sookja Kim Chung*, **Vincent Kam Wai Wong***. N-Acetylcysteine overcomes epalrestat-mediated increase of toxic 4-hydroxy-2-nonenal and potentiates the anti-arthritic effect of epalrestat in AIA model. *Int J Biol Sci* 2023 Aug 6;19(13):4082-4102.
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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 wallichii petroleum ether fraction exhibiting antiaging and anti-Alzheimer's disease effects in *Caenorhabditis elegans*. *Phytomedicine*. 2023 Aug;117:154916.
 50. Richa Sharma¹, Mohit Kumar Tiwari¹, Ali Adnan Nasim, Dharmendra Kumar Yadav, Paolo Saul Coghi*, **Vincent Kam Wai Wong***, Prof. Sandeep Chaudhary*. Artemisinin-Inspired Novel Functionalized Aryloxy-Arylvinyl-1,2,4-trioxanes as Potent Anticancer Agents: Design, Synthesis, Bioevaluation, SAR and in silico Studies. *Journal of Molecular Structure*. Volume 1288, 15 September 2023, 135707.
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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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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
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12. 2025 教育部科學研究優秀成果獎(自然科學和工程技術):

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