

黃錦偉教授



職稱: 教授

中藥質量研究國家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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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, 致力于抗炎及抗癌研究。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質量研究國家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。

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二千萬元澳門幣; 並分別於多個國際期刊上發表超過 170 篇 SCI 研究文章。黃博士亦是 30 個國際專利擁有者之一。在 2013-2018 年間, 分別榮獲澳門中銀學術研究優秀獎、高等學校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 2022 年全球前 2% 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 澳門科技大學中藥質量研究國家重點實驗室教授

2015.7 - 2022.6 澳門科技大學中藥質量研究國家重點實驗室副教授

2011.9 - 2015.6 澳門科技大學中藥質量研究國家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. Hui Miao Wang, Hong Juan Lai, An Guo Wu, Yong Tang, Lin Lin Song, Hang Hong Lo, Io Nam Wong, **Vincent Kam Wai Wong** & Betty Yuen-Kwan Law*. Melanogenic effects of 5-demethylnobiletin on mouse model of chemical-induced vitiligo. *Journal of Functional Foods*. <https://doi.org/10.1016/j.jff.2023.105962>
2. Ruihong Chen, Hang Hong Lo, Chenxu Yang, Betty Yuen Kwan Law, Xi Chen, Calista Chi In Lam, Charles Ho, Hio Lam Cheong, Qianzi Li, Chenyu Zhong, Jerome Pak Lam Ng, Cheung Kam Fai Peter and **Vincent Kam Wai Wong***. Natural small-molecules reverse Xeroderma Pigmentosum Complementation Group C

(XPC) deficient-mediated drug-resistance in renal cell carcinoma. *Phytomedicine*. <https://doi.org/10.1016/j.phymed.2023.155310>

3. Ding-qi Zhang*, Qin-hai Ma*, Meng-chu Yang*, Yulia Yu Beliakova, Zi-feng Yang, Peter S. Radulov, Rui-hong Chen, Li-jun Yang, Jing-yuan Wei, Yu Tong Peng, Wu Yan Zheng, Ivan A. Yaremenko, Alexander Terent'ev#, Paolo Coghi#, **Vincent Kam Wai Wong**#. Peroxide derivative as SARS-CoV2 entry inhibitors. *Viral Research*, 2023 Dec 12:340:199295.
4. 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.
5. 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
6. 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.
7. 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.
8. Jerome P. L. Ng§, Yun Xiao Yun§, Ali Adnan Nasim, Alessandra Gianoncelli, Betty Yuan Kwan Law, Giovanni Ribaudo*, **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.
9. Richa Sharma, Lalit Yadav, Ali Adnan Nasim, Ravi Kant Yadav, Ruihong Chen, Neha Kumari, Fan Ruiqi, Ashoke Sharon, Nawal Kishore Sahu, Sirish Kumar

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10. Xingxia Wang†, Wei Hu†, Liquan 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.
 11. Linna Wang, Baixiong Huang, Yaling Zeng, Jiujie Yang, Zhi Li, Jerome P. L. Ng, Xiongfei Xu, Lu Su, Xiaoyun Yun, Liquan Qu, Ruihong Chen, Weidan Luo, Yuping Wang, Chang Chen, Lijun Yang, Yuanqing Qu, Wei Zhang, Joyce Tsz Wai Chan, 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-arthritis effect of epalrestat in AIA model. *Int J Biol Sci* 2023 Aug 6;19(13):4082-4102.
 12. Weidan Luo, Yuping Wang, Jun Lv, Yong Liu, Lijun Yang, Yuanqing Qu, Zicong Lin, Xiongfei Xu, Linna Wang, Ruihong Chen, Jiujie Yang, Yaling Zeng, Ruilong Zhang, Baixiong Huang, Linlin Song, Xiaoyun Yun, Xi Chen, Wei Zhang, Kaixi Zhang, Huimiao Wang, Xingxia Wang, Liquan Qu, Menghan Liu, Liang Liu*, Betty Yuen Kwan Law*, Vincent Kam Wai Wong*. Age-related self-DNA accumulation may accelerate arthritis in rats and in human rheumatoid arthritis. *Nat Commun*. 2023 Jul 20;14(1):4394.
 13. Hoi Hei Tam, Dongxing Zhu, Samuel Sze King Ho, Heng Wai Vong, Vincent Kam Wai Wong, Simon Wing-Fai Mok* and Io Nam Wong*. Potential enhancement of post-stroke angiogenic response by targeting the oligomeric aggregation of p53 protein. *Front. Cell. Neurosci*. 2023 Jul 18;17:1193362.
 14. 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.
 15. 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

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22. Guodong Li¹, Qi Huang¹, **Vincent Kam Wai Wong[#]**, Wanhe Wang[#], Chung-Hang Leung[#]. Development of a dual targeting scaffold of SET7/MLL inhibitor for castration-resistant prostate cancer treatment. *Genes & Diseases*. 2023 Nov; 10(6): 2260–2262.

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27. Xi Chen, Jiaqi Li, Ren Zhang, Yao Zhang, Xiaoxuan Wang, Elaine Lai-Han Leung, Lijuan Ma, **Vincent Kam Wai Wong[#]**, Liang Liu[#], Erwin Neher[#], Haijie Yu[#]. Suppression of PD-L1 release from small extracellular vesicles promotes systemic anti-tumor immunity by targeting ORAI1 calcium channels. *Journal of Extracellular Vesicles* 2022 Dec;11(12):e12279.
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29. Jiujie Yang[#], Zhi Li[#], Linna Wang, Xiaoyun Yun, Yaling Zeng, Jerome P.L. Ng, Hanghong Lo, Yan Wang, Kaixi Zhang, Betty Yuen Kwan Law and **Vincent Kam Wai Wong***. The role of non-coding RNAs (miRNA and lncRNA) in the clinical management of rheumatoid arthritis. *Pharmacological Research*. 2022 Dec; 186:106549.

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34. Paolo Coghi ‡, Ivan A. Yaremenko ‡, Parichat Prommana, Jia Ning Wu, Rui Long Zhang, Jerome P. L. Ng, Yulia Yu Belyakova, Betty Yuen Kwan Law, Peter S. Radulov, Chairat Uthapibull*, **Vincent Kam Wai Wong***, and Alexander O. Terent'ev*. Antimalarial and Anticancer Activity Evaluation of Bridged Ozonides, Aminoperoxides, and Tetraoxanes. ***ChemMedChem***, 2022 Oct 19;17(20):e202200328.
35. Jerome Ng, Yu Han, Li Jun Yang, Lyn-Marie Birkholtz, Dina Coertzen, Ho Ning Wong, Richard K. Haynes*, Paolo Coghi* and **Vincent Kam Wai Wong***. Antimalarial and antitumour activities of the steroidal quinone-methide celastrol and its combinations with artemiside, artemisone and methylene blue. ***Frontiers in Pharmacology.*** 2022 Sep 2;13:988748.
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40. Xiaoyun Yun, Yuhan Xie, Jerome P. L. Ng, Betty Yuen Kwan Law, **Vincent Kam Wai Wong***, and Paolo Coghi*. 2-Bromo-3-((1-(7-chloroquinolin-4-yl)-1H-1,2,3-triazol-4-yl)-methoxy)-benzaldehyde. *Molbank* 2022(1), M1351; <https://doi.org/10.3390/M1351>
41. Waikit Leong, Guoxin Huang, Weilin Liao, Wenrui Xia, Xiaoang Li, Ziren Su, Liang Liu, Qiang Wu, **Vincent Kam Wai Wong**, Betty Yuen Kwan Law, Chenglai Xia, Xiaoling Guo, Imran Khan#, W.L.Wendy Hsiao#. Traditional Patchouli essential oil modulates the host's immune responses and gut microbiota and exhibits potent anti-cancer effects in Apc^{Min/+} mice. *Pharmacological Research* 2022 Jan 12;106082.
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44. Wen-Qiao Qiu; Wei Ai; Feng-Dan Zhu; Yue Zhang; Min-Song Guo; Betty Yuen-Kwan Law; Jian-Ming Wu; **Vincent Kam-Wai Wong**; Yong Tang; Lu Yu; Qi Chen; Chong-Lin Yu; Xiao-Gang Zhou; Da-Lian Qin, Anguo Wu. Polygala saponins inhibit NLRP3 inflammasome-mediated neuroinflammation via SHP2-Mediated mitophagy. *Free Redical Biology & Medicine*. 2021 Dec 20;179:76-94.
45. Yoke Mooi Ng, Paolo Coghi, Fayaz Ali, **Vincent Kam Wai Wong**, Carmine Coluccini*. Synthesis and Coordination Properties of a Water-Soluble Material by Cross-Linking Low Molecular Weight Polyethyleneimine with Armed Cyclotrimeratrilene. *Polymers(Basel)*. 2021 Nov 26;13(23), 4133.

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47. Nuha Mahmoud ^a, Mona Dawood ^a, Qi Huang ^b, Jerome P. L. Ng ^b, Fang Ren ^b, **Vincent K. W. Wong** ^{b,c*}, Thomas Efferth ^{a*}. Nimbolide inhibits 2D and 3D prostate cancer cells migration, affects microtubules and angiogenesis and suppresses B-RAF/p.ERK-mediated *in vivo* tumor growth. *Phytomedicine*. <https://doi.org/10.1016/j.phymed.2021.153826>.
48. Sha-Sha Cheng, Yuan-Qing Qu, Jia Wu, Guan-Jun Yang, Hao Liu, Wanhe Wang, Qi Huang, Feng Chen, Guodong Li, Chun-Yuen Wong, **Vincent Kam Wai Wong***, Dik-Lung Ma*, Chung-Hang Leung*. Inhibition of the CDK9–cyclin T1 protein–protein interaction as a new approach against triple-negative breast cancer. *Acta Pharmaceutica Sinica B*. Accepted
49. Hu-Qiang He, Yuan-Qing Qu, Cong-ling Qiu, Yu Han, Ivo Ricardo de Seabra Rodrigues Dias, Yong Liu, Jie Zhang, An-Guo Wu, Cheng-Wen Wu, Simon Wing Fai Mok, Yan-Zheng He* and **Vincent Kam Wai Wong***. Suppression of Autophagy and Apoptosis Rescue Human Vascular Smooth Muscle Cells from AGEs-induced Calcification. *Frontiers in Pharmacology*. 20 October 2021 | <https://doi.org/10.3389/fphar.2021.692431>
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5. 2016 中珠醫療生命科學科研一等獎
6. 2017 中珠醫療生命科學科研一等獎
7. 2018 高等學校科學研究優秀成果獎自然科學獎一等獎 (團體獎)
獲獎項目：抑制細胞增殖與分化異常的新機制研究
獲獎者：黃錦偉 (第 12 完成人)
獎勵等級：自然科學獎一等獎
獎勵日期：2019 年 1 月
證書號：2018-056
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