

黄锦伟教授



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中药质量研究国家重点实验室助理主任
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简介:

黄锦伟教授于 2006 年在香港大学取得化学博士学位, 在香港浸会大学中医药学院先后担任博士后研究员及研究助理教授, 致力于抗炎及抗癌研究。2011 年 9 月加入澳门科技大学中药质量研究国家重点实验室助理教授, 并担任组学技术与创新药物研究中心副主任一职, 2015 年破格升为副教授, 2022 年晋升为正教授。现担任澳门科技大学中药质量研究国家重点实验室助理主任及埃尔文内尔博士生物物理与创新药物实验室执行主任。

黄教授的研究范畴主要在炎症及肿瘤分子生物学, 以及化学分子生物学与结构活性关系等。黄教授专长于研究细胞自噬与抗癌抗脑神经退化及对抗耐药耐凋亡等问题, 如天然小分子 SERCA 离子通道抑制剂及 AMPK 激活剂的抗耐药耐凋亡作用; 黄教授近年更专注于研究抗癌基因 p53, 14-3-3 及 P-糖蛋白导致关节炎耐药等问题, 最近更成功破解中老年类风关高发率之谜, 并将研究成果发表在 *Nature Communications*。

黄教授担任 *Frontiers in Pharmacology* 的副编辑及 *Phytomedicine* 的编委; 近十年间共获资助项目总金额超过二千万元澳门币; 并分别于多个国际期刊上发表超过 170 篇 SCI 研究文章。黄博士亦是 30 个国际专利拥有者之一。在 2013-2018 年间, 分别荣获澳门中银学术研究优秀奖、高等学校科学研究优秀成果奖自然科学奖一等奖(团体奖)、并先后获得澳门特别行政区科学技术奖自然科学奖二等奖及一等奖(团体奖)。同时亦是 2022 年全球前 2% 顶尖科学家(STANFORD UNIVERSITY)。

教研领域

教学科目：生物化学、现代生物科技、中药药理实验方法学、药理实验方法学、
分子及生物学、临床药理学、药理学实验、生物化学及分子生物学、
生物化学及分子生物学实验、中医学 / 生物医学专题项目之医学实验
方法

研究方向：炎症及癌症、分子生物学、化学生物学

学历

2006.9 香港大学化学博士学位

2002.8 香港科技大学生物学硕士学位

1999.6 香港科技大学生物化学学士学位

教学经验

2022.7 - 今 澳门科技大学中药质量研究国家重点实验室教授

2015.7 - 2022.6 澳门科技大学中药质量研究国家重点实验室副教授

2011.9 - 2015.6 澳门科技大学中药质量研究国家重点实验室助理教授

2009.10 - 2011.8 香港浸会大学中医药学院研究助理教授

2006.12 - 2009.10 香港浸会大学中医药学院博士后研究员

学术成果(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, Liquan 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, Liquan 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.
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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.
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-oxindoles] under Microwave Irradiation and Their Anticancer Activity *Molecules*. 2023, 28(18), 6503.

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.
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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 Studies. *Journal of Molecular Structure*. Volume 1288, 15 September 2023, 135707.

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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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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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31. Li Zhang, Yuan-Yuan Yong, Lan Deng, Jing Wang, Betty Yuen-Kwan Law, Meng-Ling Hu, Jian-Ming Wu, Lu Yu, **Vincent Kam-Wai Wong**, Chong-Lin Yu, Da-Lian Qin, Xiao-Gang Zhou and An-Guo Wu. Therapeutic potential of Polygala saponins in neurological diseases. *Phytomedicine*. 2023 Jan;108:154483.
32. Xiao-Gang Zhou, Wen-Qiao Qiu, Lu Yu, Rong Pan, Jin-Feng Teng, Zhi-Pei Sang, Betty Yuen-Kwan Law, Ya Zhao, Li Zhang, Lu Yan, Yong Tang, Xiao-Lei Sun, **Vincent Kam Wai Wong**, Chong-Lin Yu, Jian-Ming Wu#, Da-Lian Qin# & An-Guo Wu#. Targeting microglial autophagic degradation of the NLRP3 inflammasome for identification of thonningianin A in Alzheimer's disease. *Inflammation and Regeneration* 2022 Aug 3;42(1):25.
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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 Uthaipibull*, **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.
36. Si-yu Yuan, Hai-Bo Yu, Zhen Yang, Yi-Ping Qin, Ji-Hua Ren, Sheng-Tao Cheng, Fang Ren, Betty Yuen Kwan Law, **Vincent Kam Wai Wong**, Jerome Pak Lam Ng, Yu-Jiao Zhou, Xin He, Ming Tan, Zhen-Zhen Zhang and Juan Chen. Pimobendan inhibits HBV transcription and replication by suppressing HBV promoters activity. *Front Pharmacol*. 2022 Jun 3;13:837115.
37. Zhenxiong Gao, Tingting Fan, Linbo Chen, Mengchu Yang, **Vincent Kam Wai Wong**, Dawei Chen, Zijian Liu, Yaoyao Zhou, Weibin Wu, Zixuan Qiu, Cunlong Zhang, Yuan Li, Yuyang Jiang. Design, Synthesis and Antitumor Evaluation of Novel 1H-indole-2-carboxylic Acid Derivatives Targeting 14-3-3 η Protein. *European Journal of Medicinal Chemistry*. Volume 238, 5 August 2022, 114402
38. Paolo Coghi^{a1}, Xiao Yun Yun^{b1}, Jerome P. L. Ng^b, Maurizio Memo^c, Alessandra Gianoncelli^c **Vincent Kam Wai Wong^{b*}** and Giovanni Ribaudo^{c*}. Exploring SARS-

- CoV-2 Delta Variant Spike Protein Receptor-Binding Domain (RBD) as a Target for Tanshinones and Antimalarials. *Natural Product Research*. 2022 Mar 25;1-6.
39. Jerome P. L. Ng, Mohit K. Tiwari, Ali Adnan Nasim, Rui Long Zhang, Yuanqing Qu, Richa Sharma, Betty Yuen Kwan Law, Dharmendra Kumar Yadav*, Sandeep Chaudhary*, Paolo Coghi*, **Vincent Kam Wai Wong***. Biological Evaluation in Resistant Cancer Cells and Study of Mechanism of Action of Arylvinyl-1,2,4-Trioxanes. *Pharmaceuticals* 2022, 15(3), 360
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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.
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学术书籍

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DOI: 10.5772/64274
2. Simon Wing Fai Mok, Betty Yuen Kwan Law, **Vincent Kam Wai Wong** and Liang Liu*
Immunotherapeutic approaches of rheumatoid arthritis and the implication on novel interventions for refractoriness, Immunotherapy, Dr. Seyyed Shamsadin Athari (Ed.),
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Chapter 7: Tumor Therapeutic Modes
ebook “New Nanomaterials and Techniques for Tumor-targeted Systems”.
Editors: Huang, Rongqin, Wang, Yi (Eds.).
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).

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学术奖项

1. 2013 年度中银学术研究优秀奖
2. 2014 年度澳门特别行政区科学技术奖自然科学奖二等奖 (团体奖)
获奖项目: 中药 “三多” 特征的创新研究方法及其理论基础
获奖者: 刘良, 姜志宏, 王静蓉, 梁丽娴, 黄锦伟
3. 2015 年度高等学校科学研究优秀成果奖自然科学奖一等奖 (团体奖)
获奖项目: 中医药整体治疗的网络调节机理研究
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奖励日期: 2015 年 2 月
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4. 2016 年度澳门特别行政区科学技术奖自然科学奖一等奖 (团体奖)
获奖项目: 类风湿关节炎的发病新机制和治疗新途径
获奖者: 刘良, 周华, 李婷, 王俊, 黄锦伟
5. 2016 中珠医疗生命科学科研一等奖
6. 2017 中珠医疗生命科学科研一等奖
7. 2018 高等学校科学研究优秀成果奖自然科学奖一等奖 (团体奖)
获奖项目: 抑制细胞增殖与分化异常的新机制研究
获奖者: 黄锦伟 (第 12 完成人)
奖励等级: 自然科学奖一等奖
奖励日期: 2019 年 1 月
证书号: 2018-056
8. Zhongzhu Awards for Life Science Recognizing First Prize in Service 中珠医疗生命科学科研 二等奖 2018
9. 澳门科技大学防疫抗疫应急优秀团队个人评选及表彰奖励计划 (2020)

云课堂教学杰出奖 (Outstanding Performance Award in Online Teaching)
10. 科学中国人杂志访问(2021 年 6 月): 找准人生 “靶点” 实现科研梦想