

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

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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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 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, Liqun 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 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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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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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 Arylvinylnyl-1,2,4-Trioxanes. *Pharmaceuticals* 2022, 15(3), 360
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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>
50. Paolo Coghi, Li Jun Yang, Jerome P. L. Ng, Richard K. Haynes, Maurizio Memo, Alessandra Gianoncelli, Vincent Kam Wai Wong* and Giovanni Ribaud*. A Drug Repurposing Approach for Antimalarials Interfering with SARS-CoV-2 Spike Protein Receptor Binding Domain (RBD) and Human Angiotensin-Converting Enzyme 2 (ACE2). *Pharmaceuticals*. 2021, 14(10), 954; <https://doi.org/10.3390/ph14100954>
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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

Prof. Vincent Kam Wai Wong



Position : Professor,

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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.

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 170 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 30 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.

EDUCATION

2002-2006 **The University of Hong Kong**

1999-2002 **The Hong Kong University of Science and Technology**

1996-1999 **The Hong Kong University of Science and Technology**

WORK HISTORY

7/2022-present **Macau University of Science and Technology**
Full Professor
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- 9/2011-6/2015 **Macau University of Science and Technology**
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- 10/2009-8/2011 **Hong Kong Baptist University**
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Inflammation research, School of Chinese Medicine)
- 07/2006-10/2009 **Hong Kong Baptist University**
Post-doctoral-fellow (School of Chinese Medicine)

Selected Publications (Recent 5 years)

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>
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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.
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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 Arylviny-1,2,4-Trioxanes. *Pharmaceuticals* 2022, 15(3), 360

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Book Chapter Publication

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

Autophagy in Multidrug-Resistant Cancers, *Autophagy in Current Trends in Cellular Physiology and Pathology*, Dr. Nikolai Gorbunov (Ed.), InTech, Available from:

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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

ebook “New Nanomaterials and Techniques for Tumor-targeted Systems”.

Editors: Huang, Rongqin, Wang, Yi (Eds.).

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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