

## 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  
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### 簡介:

黃錦偉博士於 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。

黃錦偉博士的研究範疇主要在腫瘤分子生物學, 化學分子生物學與結構活性關係, 以及 IKK- $\beta$  - NF- $\kappa$ B 炎症傳遞信號通路等。同時, 黃博士也專注於研究細胞自體吞噬與抗癌抗腦神經退化及對抗耐藥耐凋亡等問題, 如天然化合物的自噬抗癌抗炎功效, 天然小分子 SERCA 抑制劑及 AMPK 激活劑的抗耐藥耐凋亡作用; 黃博士近年更專注於研究抗癌基因 p53, 14-3-3 $\eta$  及 P-糖蛋白(P-gp)導致關節炎耐藥等問題。

黃博士先後擔任 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 160 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 澳門科技大學中藥品質研究國家重點實驗室教授
- 2015.7 – 2022.6 澳門科技大學中藥品質研究國家重點實驗室副教授
- 2011.9 – 2015.6 澳門科技大學中藥品質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. Linlin song, Yuan Qing Qu, Yong Pei Tang, Xi Chen, Hang Hong lo, Li Qun Qu, Xiao Yun Yun, **Vincent Kam Wai Wong**, Rui Long Zhang, Hui Miao Wang, Meng Han Liu, Wei Zhang, Hui Xia Zhang, Joyce Tsz Wai Chan, Cai Ren Wang, Jian Hui Wu, Betty Yuen Kwan Law\*. Hyperoside alleviates toxicity of  $\beta$ -amyloid via endoplasmic reticulum-mitochondrial calcium signal transduction cascade in APP/PS1 double transgenic Alzheimer's disease mice. ***Redox Biology Accepted!***
2. Congling Qiu<sup>#</sup>, Joyce Tsz Wai Chan<sup>#</sup>, David Wei Zhang<sup>#</sup>, Io Nam Wong, Yaling Zeng, Betty Yuen Kwan Law, Simon Wing Fai Mok, Ivo Ricardo De Seabra

Rodrigues Dias, Wenfeng Liu, Liang Liu\* & Vincent Kam Wai Wong\*. The potential development of drug-resistance in rheumatoid arthritis patients identified with p53 mutations. *Genes & Diseases*. **Accepted!**

3. Hu-Qiang He, Christopher Wai-Kei Lam, Simon Wing Fai Mok, Yuan-Qing Qu, Zheng Wang, Xiong-Fei Xu, An-Guo Wu, Yong Liu\*, Vincent Kam Wai Wong\*. Isobavachalcone Suppresses Vascular Calcification-Induced Atherosclerosis in Mice via Protective Autophagy. *Oxidative Medicine and Cellular Longevity*. **Accepted!**
4. Guodong Li<sup>1</sup>, Qi Huang<sup>1</sup>, Vincent Kam Wai Wong<sup>#</sup>, Wanhe Wang<sup>#</sup>, Chung-Hang Leung<sup>#</sup>. A rhodium(III)-based SET7/MLL inhibitor as a dual targeting scaffold for castration-resistant prostate cancer treatment. *Genes & Diseases*. **Accepted!**
5. Yunjian Ma, Zongquan Li, Hao Zhang, Vincent Kam Wai Wong, Frank Hollmann\*, Yonghua Wang\*. Enzymatic synthesis of aromatic aldehydes. *Catalysts*. 2023, 13, 145.
6. Ren Fang, Tan Ming, Jerome P. L. Ng, Wu An Guo, Yuan Si Yu, Zhang Hui, Ren Ji Hua, Cheng Sheng Tao, Zhang Juan, Lo Hang Hong, Vincent Kam Wai Wong\*, Betty Yuen Kwan Law\*, Juan Chen\*. Culcitioside A, Isolated from *Peristrophe Japonica*, Inhibits HBsAg Expression and CccDNA Transcription by Inducing Autophagy. *Antiviral Research* 2023 Jan;209:105482.
7. Xi Chen, Jiaqi Li, Ren Zhang, Yao Zhang, Xiaoxuan Wang, Elaine Lai-Han Leung, Lijuan Ma, Vincent Kam Wai Wong<sup>#</sup>, Liang Liu<sup>#</sup>, Erwin Neher<sup>#</sup>, Haijie Yu<sup>#</sup>. 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.
8. Giovanni Ribaud\*, Xiao Yun Yun\*, Alberto Ongaro, Erika Oselladore, Jerome P. L. Ng, Richard K. Haynes, Betty Yuen Kwan Law, Maurizio Memo, Vincent Kam Wai Wong\*, Paolo Coghi\* and Alessandra Gianoncelli\*. Combining Computational and Experimental Evidence on the Activity of Antimalarial Drugs on Papain-Like Protease of SARS-Cov-2: A Repurposing Study. *Chem Biol Drug Des*. 2022 Nov 30. doi: 10.1111/cbdd.14187.
9. Lin Yin, Guoxin Huang, Imran Khan, Lu Su, Wenrui Xia, Betty Yuen Kwan Law, Vincent Kam Wai Wong, Qiang Wu, Jingyi Wang, Wai Kit Leong and W. L. Wendy Hsiao. *Poria cocos* polysaccharides exert prebiotic function to attenuate the adverse effects and improve the therapeutic outcome of 5-FU in ApcMin/+ mice. *Chinese Medicine* (2022) 17:116.
10. Chang-Long He, Yong Tang, Xue Chen, Tao Long, Yan-Ni He, Jing Wei, Jian-Ming Wu, Cai Lan, Lu Yu, Fei-Hong Huang, Cong-Wei Gu, Jian Liu, Chong-Lin Yu, Vincent Kam-Wai Wong, Betty Yuen-Kwan Law, Da-Lian Qin,

An-Guo Wu, Xiao-Gang Zhou. Folium Hibisci Mutabilis extract, a potent autophagy enhancer, exhibits neuroprotective properties in multiple models of neurodegenerative diseases. *Phytomedicine*.

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11. Jiujie Yang<sup>#</sup>, Zhi Li<sup>#</sup>, 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.
12. 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, An-Guo Wu. Therapeutic potential of Polygala saponins in neurological diseases. *Phytomedicine*. 2022 Sep 29; 108:154483.
13. 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<sup>#</sup>, Da-Lian Qin<sup>#</sup> & An-Guo Wu<sup>#</sup>. Targeting microglial autophagic degradation of the NLRP3 inflammasome for identification of thionningianin A in Alzheimer's disease. *Inflammation and Regeneration* 42, 25 (2022). <https://doi.org/10.1186/s41232-022-00209-7>.
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15. 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*, <https://doi.org/10.1002/cmdc.202200328>.
16. 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.
17. Fang Ren, Ming Tan, Jerome P.L. Ng, An Guo Wu, Si Yu Yuan, Hui Zhang, Ji Hua Ren, Sheng Tao Cheng, Juan Zhang, **Vincent Kam Wai Wong\***, Betty Yuen Kwan Law\*, Juan Chen\*. Culcitoside A, Isolated from Peristrophe Japonica,

Inhibits Hbsag Expression and Cccdna Transcription by Inducing Autophagy. ***SSRN Electronic Journal (Preprint)***

18. Juan Chen, Zhen-Zhen Zhang, 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 and Ming Tan. Pimobendan inhibits HBV transcription and replication by suppressing HBV promoters activity. ***Front Pharmacol.*** 2022 Jun 3;13:837115.
19. 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 $\eta$  Protein. ***European Journal of Medicinal Chemistry.*** Volume 238, 5 August 2022, 114402
20. Paolo Coghi<sup>a1</sup>, Xiao Yun Yun<sup>b1</sup>, Jerome P. L. Ng<sup>b</sup>, Maurizio Memo<sup>c</sup>, Alessandra Gianoncelli<sup>c</sup> **Vincent Kam Wai Wong<sup>b\*</sup>** and Giovanni Ribaudo<sup>c\*</sup>. 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.
21. 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
22. 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>
23. 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<sup>Min/+</sup> mice. ***Pharmacological Research*** 2022 Jan 12;106082.
24. Hui-Miao Wang, Li Qun Qu, Jerome P. L. Ng, Wu Zeng, Lu Yu, Lin Lin Song, **Vincent Kam Wai Wong**, Cheng Lai Xia\*, Betty Yuen-Kwan LAW\*. Natural Citrus flavanone 5-demethylnobiletin stimulates melanogenesis through the activation of cAMP/CREB pathway in B16F10 cells. ***Phytomedicine.*** 2022 Jan 19;98:153941.

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26. 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. Polygalasaponins inhibit NLRP3 inflammasome-mediated neuroinflammation via SHP2-Mediated mitophagy. *Free Redical Biology & Medicine*. 2021 Dec 20;179:76-94.
27. 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.
28. Cai-Ren Wang, Hong-Wei Chen, Yan Li, Ming-Yue Zhou, **Vincent Kam-Wai Wong**, Zhi-Hong Jiang\*, Wei Zhang\*. Network pharmacology exploration reveals anti-apoptosis as a common therapeutic mechanism for non-alcoholic fatty liver disease treated with blueberry leaf polyphenols. *Nutrients*. 2021 Nov 13;13(11):4060.
29. Nuha Mahmoud <sup>a</sup>, Mona Dawood <sup>a</sup>, Qi Huang <sup>b</sup>, Jerome P. L. Ng <sup>b</sup>, Fang Ren <sup>b</sup>, **Vincent K. W. Wong <sup>b,c\*</sup>**, Thomas Efferth <sup>a\*</sup>. 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>.
30. 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
31. 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>



32. Paolo Coghi, Li Jun Yang, Jerome P. L. Ng, Richard K. Haynes, Maurizio Memo, Alessandra Gianoncelli, **Vincent Kam Wai Wong\*** and Giovanni Ribaudo\*. 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>
33. Xi Chen, Hui Zhang, Wu Zeng, Nick Wang, Hang Hong Lo, Chi Kio Ip, Li Jun Yang, W.L. Wendy Hsiao, Wai Man Sin, Chenglai Xia, Betty Yuen Kwan Law\* and **Vincent Kam Wai Wong\***. Far infrared irradiation suppresses experimental arthritis in rats by down-regulation of genes involved in inflammatory response and autoimmunity. *Journal of Advanced Research*. 2021 Sept 1; <https://doi.org/10.1016/j.jare.2021.08.015>
34. Dingqi Zhang\*, Sami Hamdoun\*, Ruihong Chen\*, Lijun Yang\*, Chi Kio Ip, Yuanqing Qu, Runfeng Li, Haiming Jiang, Zifeng Yang#, Sookja Kim Chung#, Liang Liu# and **Vincent Kam Wai Wong#**. Identification of natural compounds as SARS-CoV-2 entry inhibitors by molecular docking-based virtual screening with bio-layer interferometry. *Pharmacological Research*. 2021 Aug 14;172:105820. doi: 10.1016/j.phrs.2021.105820.
35. Yun Zhang†, Xing Wang†, He Zhang, Hongmei Tang, Hang Hu, Songping Wang, **Vincent Kam Wai Wong\***, Yuying Li\* and Jun Deng\*. Autophagy modulators from Chinese herb medicines: Mechanisms and therapeutic potentials for asthma. *Front Pharmacol*. 2021 Jul 23;12:710679.
36. Mohit K. Tiwari,†,a Paolo Coghi,†,b Prakhar Agrawal,†,c Dharmendra K. Yadav,d Li Jun Yang,e Qiu Congling,e Dinkar Sahal,c,\* **Vincent Kam Wai Wong,e,\*** Sandeep Chaudharya,\* . Novel Halogenated Arylvinyl-1,2,4 Trioxanes as Potent Antiplasmodial as well as Anticancer Agents: Synthesis, Bioevaluation, Structure-Activity Relationship and In-silico Studies. *Eur J Med Chem*. 2021 Jul 10;224:113685. doi: 10.1016/j.ejmech.2021.113685.
37. Paolo Coghi, Jerome P. L. Ng, Onat Kadioglu, Betty Yuen Kwan Law, Alena Congling Qiu, Mohamed E.M. Saeed, Xi Chen, Chi Kio Ip, Thomas Efferth\*, Liang Liu\* and **Vincent Kam Wai Wong\***. Synthesis, computational docking and biological evaluation of celastrol derivatives as dual inhibitors of SERCA and P-glycoprotein in cancer therapy. *Eur J Med Chem*. 2021 Jul 5;224:113676. doi: 10.1016/j.ejmech.2021.113676.
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Hua Lin Sun, Liang Liu, W L Wendy Hsiao, Betty Yuen Kwan Law. Saponins isolated from *Radix polygalae* extend lifespan by modulating complement C3 and gut microbiota. *Pharmacol Res.* 2021 Aug;170:105697. doi: 10.1016/j.phrs.2021.105697.

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47. Rui Hong Chen1\*, Li Jun Yang1\*, Sami Hamdoun1 , 4, Sookja Kim Chung2, Christopher Wai-kei Lam2, Kai Xi Zhang1, Xiaoling Guo3, Chenglai Xia3, Betty Yuen Kwan Law1# and **Vincent Kam Wai Wong**1#. 1,2,3,4,6-Pentagalloyl glucose, a RBD-ACE2 binding inhibitor to prevent SARS-CoV-2 infection. **Front. Pharmacol** 12:634176. doi: 10.3389/fphar.2021.634176.
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Book chapter in “**Autophagy**” ISBN 978-953-51-4815-9.  
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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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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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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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3. 2015 年度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：中醫藥整體治療的網絡調節機理研究

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4. 2016 年度澳門特別行政區科學技術獎自然科學獎一等獎（團體獎）

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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

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Dr. 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.

Dr. Vincent Wong is experienced in cancer molecular biology, chemical biology and structural activity relationship, and IKK- $\beta$  – NF- $\kappa$ B signaling. His research focus on relationship between autophagy and multidrug-resistant, apoptosis-resistant anti-tumor effect via SERCA inhibition and AMPK activation. Recently, Dr. Wong deeply interested in the involvement of p53 and P-glycoprotein in drug-resistant phenotype of rheumatoid arthritis. In addition, with the support of Nobel Laureate Laboratory, he cooperates 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. He has published over 160 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. Dr. Wong 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, Dr. 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. Beside, he is one of the world top 2% scientists announced by Standard University.

## **EDUCATION**

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|-----------|-----------------------------------------------------------|
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## **WORK HISTORY**

|                |                                                                                                                                                                                                                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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10/2009-8/2011

**Hong Kong Baptist University**

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**Selected Publications (Recent 5 years)**

1. Linlin song, Yuan Qing Qu, Yong Pei Tang, Xi Chen, Hang Hong lo, Li Qun Qu, Xiao Yun Yun, **Vincent Kam Wai Wong**, Rui Long Zhang, Hui Miao Wang, Meng Han Liu, Wei Zhang, Hui Xia Zhang, Joyce Tsz Wai Chan, Cai Ren Wang, Jian Hui Wu, Betty Yuen Kwan Law\*. Hyperoside alleviates toxicity of  $\beta$ -amyloid via endoplasmic reticulum-mitochondrial calcium signal transduction cascade in APP/PS1 double transgenic Alzheimer's disease mice. *Redox Biology* **Accepted!**
2. Congling Qiu<sup>#</sup>, Joyce Tsz Wai Chan<sup>#</sup>, David Wei Zhang<sup>#</sup>, Io Nam Wong, Yaling Zeng, Betty Yuen Kwan Law, Simon Wing Fai Mok, Ivo Ricardo De Seabra Rodrigues Dias, Wenfeng Liu, Liang Liu\* & **Vincent Kam Wai Wong\***. The potential development of drug-resistance in rheumatoid arthritis patients identified with p53 mutations. *Genes & Diseases*. **Accepted!**
3. Hu-Qiang He, Christopher Wai-Kei Lam, Simon Wing Fai Mok, Yuan-Qing Qu, Zheng Wang, Xiong-Fei Xu, An-Guo Wu, Yong Liu\*, **Vincent Kam Wai Wong\***. Isobavachalcone Suppresses Vascular Calcification-Induced Atherosclerosis in Mice via Protective Autophagy. *Oxidative Medicine and Cellular Longevity*. **Accepted!**
4. Guodong Li<sup>1</sup>, Qi Huang<sup>1</sup>, **Vincent Kam Wai Wong<sup>#</sup>**, Wanhe Wang<sup>#</sup>, Chung-Hang Leung<sup>#</sup>. A rhodium(III)-based SET7/MLL inhibitor as a dual targeting scaffold for castration-resistant prostate cancer treatment. *Genes & Diseases*. **Accepted!**
5. Yunjian Ma, Zongquan Li, Hao Zhang, **Vincent Kam Wai Wong**, Frank Hollmann\*, Yonghua Wang\*. Enzymatic synthesis of aromatic aldehydes. *Catalysts*. 2023, 13, 145.
6. Ren Fang, Tan Ming, Jerome P. L. Ng, Wu An Guo, Yuan Si Yu, Zhang Hui, Ren Ji Hua, Cheng Sheng Tao, Zhang Juan, Lo Hang Hong, **Vincent Kam Wai Wong\***, Betty Yuen Kwan Law\*, Juan Chen\*. Culcitioside A, Isolated from *Peristrophe Japonica*, Inhibits HBsAg Expression and CccDNA Transcription by Inducing Autophagy. *Antiviral Research* 2023 Jan;209:105482.



7. Xi Chen, Jiaqi Li, Ren Zhang, Yao Zhang, Xiaoxuan Wang, Elaine Lai-Han Leung, Lijuan Ma, **Vincent Kam Wai Wong**<sup>#</sup>, Liang Liu<sup>#</sup>, Erwin Neher<sup>#</sup>, Haijie Yu<sup>#</sup>. 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.
8. Giovanni Ribaudo<sup>•</sup>, Xiao Yun Yun<sup>•</sup>, Alberto Ongaro, Erika Oselladore, Jerome P. L. Ng, Richard K. Haynes, Betty Yuen Kwan Law, Maurizio Memo, **Vincent Kam Wai Wong**<sup>\*</sup>, Paolo Coghi<sup>\*</sup> and Alessandra Gianoncelli<sup>\*</sup>. Combining Computational and Experimental Evidence on the Activity of Antimalarial Drugs on Papain-Like Protease of SARS-Cov-2: A Repurposing Study. *Chem Biol Drug Des.* 2022 Nov 30. doi: 10.1111/cbdd.14187.
9. Lin Yin, Guoxin Huang, Imran Khan, Lu Su, Wenrui Xia, Betty Yuen Kwan Law, **Vincent Kam Wai Wong**, Qiang Wu, Jingyi Wang, Wai Kit Leong and W. L. Wendy Hsiao. *Poria cocos* polysaccharides exert prebiotic function to attenuate the adverse effects and improve the therapeutic outcome of 5-FU in ApcMin/+ mice. *Chinese Medicine* (2022) 17:116.
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11. Jiujiu Yang<sup>#</sup>, Zhi Li<sup>#</sup>, 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**<sup>\*</sup>. 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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### 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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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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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