

## 黃錦偉博士



職稱: 副教授

組學技術與創新藥物研究中心副主任

學院/部門: 埃爾文內爾博士生物物理與創新藥物實驗室，中藥品質研究國家重點實驗室，澳門科技大學

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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，繼而轉往香港浸會大學中醫藥學院擔任博士後研究一職，並於 2009 年獲晉升為研究助理教授，致力於抗炎及抗癌研究。2011 年 9 月獲聘任為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，在 2015 年更破格升職為副教授。

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，人參總提取物及其單一小分子衍生物的抗癌療效，發現及剖析在 IKK- $\beta$  蛋白酶上最新的藥靶點等，並分別於多個國際期刊上發表超過 130 篇 SCI 研究文章；同時亦擔任 *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。在現階段，黃博士專注於研究抗癌基因 p53 及 P-糖蛋白(P-gp)導致關節炎耐藥等問題；此外，在諾獎實驗室支持下，與香港新創健康科技品牌 eefit 依飛共同研發醫療及健康產品，當中包括抗 2019 新冠病毒精油等。黃博士亦是 25 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)。

## 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

- 2015.7 - 今 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. 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*. Accepted
2. 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
3. Xiaoyun Yun, Yuhan Xie, Jerome P. L. Ng, Betty Yuen Kwan Law, **Vincent Kam Wai Wong\***, and Paolo Coghi\*.

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4. 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, Wendy Hsiao. Traditional Patchouli Essential Oil modulates the host's immune responses and gut microbiota and exhibits potent anti-cancer effects in ApcMin/+ mice. *Pharmacological Research*. 2022 Jan 12;106082.
5. 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.
6. Bin Tang, Wu Zeng, Lin Lin Song, Hui Miao Wang, Li Qun Qu, Hang Hong Lo, Lu Yu, An Guo Wu, **Vincent Kam Wai Wong \***, Betty Yuen Kwan Law \*. Exosomal delivery of neferine for attenuation of neurodegenerative disease proteins and motor deficit in Alzheimer's disease mice via enhancement of blood brain barrier permeability. *Pharmaceuticals*. 2022, 15, 83. <https://doi.org/10.3390/ph15010083>
7. 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.
8. 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 Cyclotriveratrilene. *Polymers(Basel)*. 2021 Nov 26;13(23), 4133.
9. 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.
10. 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>.

11. 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
12. 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>
13. 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>
14. 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>
15. 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.
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17. Mohit K. Tiwari,†,a Paolo Coghi,†,b Praxhar 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 Arylviny-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.
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21. Paolo Coghi\*, Jerome P. L. Ng, Ali Adnan Nasim, Vincent Kam Wai Wong\*. N-[7-Chloro-4-[4-(phenoxy)methyl]-1H-1,2,3-triazol-1-yl] quinoline]-acetamide. *Molbank.* 2021(2), M1213
22. Giovanni Ribaudo\*, Paolo Coghi\*, Li Jun Yang, Jerome P. L. Ng, Andrea Mastinu, Maurizio Memo, Vincent Kam Wai Wong and Alessandra Gianoncelli. Computational and Experimental Insights on the Interaction of Artemisinin, Dihydroartemisinin and Chloroquine with SARS-CoV-2 Spike Protein Receptor-Binding Domain (RBD). *Natural Product Research.* 2021 May 12;1-6.
23. Guodong Li, Chung-Nga Ko, Dan Li, Chao Yang, Wanhe Wang, Guan-Jun Yang, Carmelo Di Primo, Vincent Kam Wai Wong, Yaozu Xiang, Ligen Lin, Dik-Lung Ma\*, and Chung-Hang Leung\*. Small molecule HIF-1 $\alpha$  stabilizer that accelerates diabetic wound healing. *Nature Communication.* 2021 Jun 7;12(1):3363.
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25. Douglas Ochora, Esezah Kakudidi, Jane Namukobe, Matthias Heydenreich, Paolo Coghi, Li Jun Yang, Edwin Mwakio, Ben Andagalu, Amanda Roth, Hoseah M Akala, **Vincent K. W. Wong** and Yenesew Abiy\*. A new benzophenone and the Antiplasmodial activities of the constituents of *Securidaca longipedunculata*. *Natural Product Research*. <https://doi.org/10.1080/14786419.2021.1925272>
  26. Xiaoang Li, Imran Khan, Wenrui Xia, Guoxin Huang, Liang Liu, Betty Yuen Kwan Law, Lin Yin, Weilin Liao, Waikit Long, Ruixuan Han, **Vincent Kam Wai Wong**, Chenglai Xia, Xiaoling Guo, Wendy Hsiao. Icariin enhances youth-like features by attenuating the declined gut microbiota in the aged mice. *Pharmacological Research*. Volume 168, June 2021, 105587
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  28. Rui Hong Chen<sup>1\*</sup>, Li Jun Yang<sup>1\*</sup>, Sami Hamdoun<sup>1,4</sup>, Sookja Kim Chung<sup>2</sup>, Christopher Wai-kei Lam<sup>2</sup>, Kai Xi Zhang<sup>1</sup>, Xiaoling Guo<sup>3</sup>, Chenglai Xia<sup>3</sup>, Betty Yuen Kwan Law<sup>1#</sup> and **Vincent Kam Wai Wong<sup>1#</sup>**. 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.
  29. **Vincent Kam-Wai Wong#**. Editorial overview: New technologies in 2020: Drug Resistance. *Current Opinion in Pharmacology*. 2020, 54: iii–vi.
  30. An-Guo Wu\*, Rong Pan\*, Betty Yuen-Kwan Law\*, Yong Tang, Jian-Ming Wu, Chang-Long He, **Vincent Kam-Wai Wong**, Lu Yu, Wen-Qiao Qiu, Jin-Feng Teng, Chong-Lin Yu#, Xiao-Gang, Zhou#, Da-Lian Qin#. Targeting autophagy as a therapeutic strategy for identification of ligandans from *Peristrophe japonica* in Parkinson's disease. *Signal Transduction and Targeted Therapy*. Accepted on 26 Nov, 2020.
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35. Kai Xi Zhang\*, Chi Kio Ip\*, Sookja Kim Chung, Kei Kei Lei, Yao Qian Zhang, Liang Liu# and **Vincent Kam Wai Wong#**. Drug-resistance in rheumatoid arthritis: The role of p53 gene mutations, ABC family transporters and personal factors *Current Opinion in Pharmacology*. 2020, 54:59–71.
36. Wu Zeng\*, Betty Y.K. Law\*, **Vincent K.W. Wong**, Denise S.B. Chan, Simon W.F. Mok, Joyce J.Y. Gao, Rebecca K.Y. Ho, Xu Liang, Jia H. Li, Ming T. Lee, Weng L. Yoon, Michael P. Smolinski, Johnson Y.N. Lau, Christopher W.K. Lam#, and Manson Fok#. HM30181A, a potent P-glycoprotein inhibitor, potentiates absorption and *in vivo* anti-tumor efficacy of paclitaxel in an orthotopic brain tumor model. *Cancer Biology & Medicine* . 2020 Nov 15;17(4):986-1001.
37. Qi Huang, Hui Zhang, Li Ping Bai, Betty Yuen Kwan Law, Haoming Xiong, Xiaobo Zhou, Riping Xiao, Yuan Qing Qu, Simon Wing Fai Mok, Liang Liu\* and **Vincent Kam Wai Wong\***. Novel ginsenoside derivative 20(S)-Rh2E2 suppresses tumor growth and metastasis *in vivo* and *in vitro* via intervention of cancer cell energy metabolism. *Cell Death & Disease*. 2020 Aug 14;11(8):621.
38. Mohit K. Tiwari,†, Paolo Coghi,†, Prakhar Agrawal,†, Bharti Rajesh K. Shyamlal, Li Jun Yang, Lalit Yadav, Yuzhong Peng, Richa Sharma, Dharmendra K. Yadav, Dinkar Sahal\*, **Vincent Kam Wai Wong\***, Sandeep Chaudhary\*. Design, Synthesis, Structure-Activity Relationship and Docking Studies of Novel Functionalized Arylvinyl-1,2,4-Trioxanes as Potent Antiplasmodial as well as Anticancer Agents. *ChemMedChem*. 2020 May 11. doi: 10.1002/cmdc.202000045.
39. Na-Na Tao; Zhen-Zhen Zhang; Ji-Hua Ren; Juan Zhang; Yu-Jiao Zhou; **Vincent Kam Wai Wong**; Betty Yuen Kwan Law; Sheng-Tao Cheng; Hong-Zhong Zhou; Wei-Xian Chen; Hong-Mei Xu; Juan Chen. Overexpression of ubiquitin-conjugating enzyme E2 L3 in hepatocellular carcinoma potentiates apoptosis evasion by inhibiting the GSK3/p65 pathway. *Cancer Letters*. DOI: 10.1016/j.canlet.2020.03.028

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43. Ivan A. Yaremenko‡, Paolo Coghi‡, Parichat Prommana, Congling Qiu, Peter S. Radulov, Yuanqing Qu, Yulia Yu Belyakova, Enrico Zanforlin, Vladimir A. Kokorekin, Yuki Yu Jun Wu, Fabrice Fleury, Chairat Uthaipibull\*, **Vincent Kam Wai Wong\***, and Alexander O. Terent'ev\*. Synthetic peroxides promote apoptosis of cancer cells inhibiting of P-glycoprotein ABCB5. *ChemMedChem.*: **10.1002/cmdc.202000042, Front Cover**
44. Yun Zhang\*, Linlin Guo\*, Betty Yuen Kwan Law, Xiaobo Liang, Ning Ma, Guofeng Xu, Xiaoyun Wang, Xiefang Yuan, Hongmei Tang, Qi Chen, **Vincent Kam Wai Wong#** and Xing Wang#. Resveratrol decreases cell apoptosis through inhibiting DNA damage in bronchial epithelial cells. *International Journal of Molecular Medicine* DOI: 10.3892/ijmm.2020.4539
45. Ni Zhang<sup>1</sup>, Hui Zhang<sup>1</sup>, Betty Yuen Kwan Law<sup>1</sup>, Ivo Ricardo De Seabra Rodrigues Dias<sup>1</sup>, Cong Ling Qiu<sup>1</sup>, Wu Zeng<sup>1</sup>, Hu Dan Pan<sup>1</sup>, Jin Yun Chen<sup>2</sup>, Yan Fu Bai<sup>3</sup>, Jing Lv<sup>4</sup>, Li Qun Qu<sup>1</sup>, Xi Chen<sup>1</sup>, Qi Huang<sup>1</sup>, Wei Zhang<sup>1</sup>, Li Jun Yang<sup>1</sup>, Lu Yu<sup>1</sup>, Yu Han<sup>1</sup>, Guo Xin Huang<sup>1</sup>, Hui Miao Wang<sup>1</sup>, Xiao Lei Sun<sup>1</sup>, Yun Zhang<sup>1</sup>, Hu Qiang He<sup>1</sup>, Wei Dan Luo<sup>1</sup>, Yao Xiao<sup>1</sup>, Jian Zhou<sup>5</sup>, Ting Xu<sup>2</sup>, Qing Chun Huang<sup>6</sup>, Min Wu<sup>2</sup>, Zhi Sheng Huang<sup>3</sup>, Wei Liu<sup>4</sup>, **Vincent Kam Wai Wong<sup>1\*</sup>**, Liang Liu<sup>1\*</sup>. Sirtuin 5 Deficiency Increases the Severity in Rat with Adjuvant-Induced Arthritis. *Cellular & Molecular Immunology*. (2020). <https://doi.org/10.1038/s41423-020-0380-4>
46. Su-Wei Xu<sup>1,7</sup>, Betty Yuen Kwan Law<sup>1</sup>, Steven Li Qun Qu<sup>1</sup>, Sami Hamdoun<sup>1,2</sup>, Juan Chen<sup>3</sup>, Wei Zhang<sup>1</sup>, Jian-Ru Guo<sup>1</sup>, An-Guo Wu<sup>4</sup>, Simon Wing Fai Mok<sup>1</sup>, David Wei Zhang<sup>1</sup>, Chenglai Xia<sup>5</sup>, Yoshikazu Sugimoto<sup>6</sup>, Thomas Efferth<sup>2\*</sup>, Liang



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Accepted on 2-7-2021

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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)  
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