

## **Prof. Vincent Kam Wai Wong**



**Position :** Professor,  
Assistant Director of SKL  
Executive Director of Dr. Neher's  
Biophysics Laboratory for  
Innovative Drug Discovery

**Faculty:** Dr. Neher's Biophysics Laboratory  
for Innovative Drug Discovery, State  
Key Laboratory of Quality Research  
in Chinese Medicine

**Email:** kawwong@must.edu.mo

**Telephone:** 853-88972408

**Office:** H701

**ORCID ID:** 0000-0002-2951-8108

**Mailing address :** H701, Biological Science Building, Dr. Neher's Biophysics Laboratory for Innovative Drug Discovery, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology, Macau

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- $\beta$  – 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, 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 200 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 40 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 (2021-2024).

## **EDUCATION**

2002-2006

**Ph.D. in The University of Hong Kong**

1999-2002	<b>MPhil in The Hong Kong University of Science and Technology</b>
1996-1999	<b>B.Sc. in The Hong Kong University of Science and Technology</b>

**WORK HISTORY**

7/2022-present	<b>Macau University of Science and Technology</b> Full Professor <u>Assistant Director</u> (State Key Laboratory of Quality Research in Chinese Medicine) <u>Executive Director</u> (Dr. Neher's Biophysics Laboratory for Innovative Drug Discovery) <u>Deputy Supervisor</u> (Center for Omics Technology and Innovative Drug Research)
7/2015-6/2022	<b>Macau University of Science and Technology</b> Associate Professor (State Key Laboratory of Quality Research in Chinese Medicine) Deputy Supervisor (Center for Omics Technology and Innovative Drug Research)
9/2011-6/2015	<b>Macau University of Science and Technology</b> Assistant Professor (State Key Laboratory of Quality Research in Chinese Medicine) Deputy Supervisor (Center for Omics Technology and Innovative Drug Research)
10/2009-8/2011	<b>Hong Kong Baptist University</b> Research Assistant Professor (Centre for Cancer and

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. Baixiong Huang#, Jerome P. L. Ng#, Dingqi Zhang, Linna Wang, Jiujie Yang, Yiting Li, Cecilia Rong Tan, Gan Luo, Bo Qin, David Wei Zhang, Jing Zhong, Xi Chen, Yuanqing Qu, Wanyu Wu, Wuyan Zheng, Xiongfei Xu, Weidan Luo, Yuping Wang, Betty Yuen Kwan Law, Wenfeng Liu\*, Paolo Coghi\*, **Vincent Kam Wai Wong\***. Celastrol derivatives ameliorate arthritis in AIA rats via modulating calcium signaling. *Phytomedicine*. Accepted.
2. Lu Xu, Xinjie Zhang, Yao Wang\*, **Vincent Kam Wai Wong\***. Clinical Characteristics and Immunotherapy Efficacy in Advanced Lung Cancer Patients with Immune Checkpoint Inhibitor-Related Adrenal Insufficiency. Accepted in *Medicine*.
3. Xiaoyun Yun, Jianhui Wu, Jie Zhou, Linlin Song, Yongpei Tang, Hanghong Lo, Jerome P.L. Ng, Menghan Liu, Zhikang Wang, Liqun Qu, Huimiao Wang, Ruilong Zhang, Cairen Wang, Linna Wang, Jiujie Yang, Sookja Kim Chung\*, **Vincent Kam Wai Wong\***, Betty Yuen Kwan Law\*. Anxiolytic effects of corilagin by targeting Htr2c through activation of the TrkB/CREB/BDNF pathway. *Phytomedicine*. 145 (2025) 157029.
4. Minsong Guo, Zhengqin Wang, Xiaogang Zhou, Chonglin Yu, Jianming Wu, Lu Yu, Jianing Mi, Fang Ren, Betty Yuen Kwan Law, Hudan Pan, **Vincent Kam Wai Wong\***, Dalian Qin\*, Anguo Wu\*. Ciliatosside A attenuates neuroinflammation in Alzheimer's disease by activating mitophagy and inhibiting NLRP3 inflammasome activation. *Phytomedicine*. 145 (2025) 156928.
5. Yuping Wang, Weidan Luo, Wanyu Wu, Chang Chen, Bo Qin, Xiongfei Xu, Yulin Xu, Linna Wang, Jiujie Yang, Wuyan Zheng, Xiaoyun Yun, Betty Yuen-Kwan Law, **Vincent Kam-Wai Wong\***. TREX1 Activators: A Novel Therapeutic Strategy for Rheumatoid Arthritis Management via cfDNA Clearance. *Pharmacological Research*. 218 (2025) 107817.
6. Wang Junyi, Zhang Lei, Liu Yingying, Liu Yao, Xiong Anying, Ran Qin, He Xiang, **Wong Vincent Kam Wai**, Combs Colin, Li Guoping, Wu, Min. Epithelial Atg5 Deficiency Intensifies Caspase-11 Activation, Fueling Extracellular mtDNA

- Release to Activate cGAS–STING–NLRP3 Axis in Macrophages During Pseudomonas Infection. *MedComm*. 10.1002/mco2.70239.
7. Paolo Coghi§, Ivan A. Yaremenko§, Parichat Prommana, Ali Adnan Nasim, Yulia Yu. Belyakova, Ruihong Chen, Peter S. Radulov, Chairat Uthaipibull\*, Alexander O. Terent'ev\* and **Vincent Kam Wai Wong\***. N-substituted Bridged Azaozonides as Promising Antimalarial Agents. *ChemMedChem*. 2025, e202500181.
  8. 蔣蔓靈, 張 雷, 劉 瑤, 李國平, **黃錦偉\***. 基於網路藥理學與分子對接探討蟲草素治療哮喘的作用機制. *中國藥理學通報*. (Accepted)
  9. Ling Wang, Lingtan Kong, Ding-qi Zhang, Liuqi Ye, Sang-cuo Nao, Daniel Chan, Xueying Li, Yutong Peng, Lijun Yang, Chun-Yuen Wong, **Vincent Kam Wai Wong\***, Wanhe Wang\*, Hui Chao\*, Chung-Hang Leung\*. Inhibiting glycolysis and disrupting the mitochondrial HK2-VDAC1 protein-protein interaction using a bifunctional lonidamine-conjugated metal probe for combating triple-negative breast cancer. *Journal of the American Chemical Society*. <https://doi.org/10.1021/jacs.5c04233>
  10. Wenfeng He, Ruihong Chen, Guangliang Chen, Lihan Zhang, Yuhang Qian, Jie Zhou, Jianhua Peng, **Vincent Kam-Wai Wong\***, Yong Jiang\*. Identification and validation of prognostic genes related to histone lactylation modification in glioblastoma: an integrated analysis of transcriptome and single-cell RNA sequencing. *Journal of Cancer* 2025; 16(7):2145-2166..
  11. Lin Lin Song, Yong Pei Tang, Yuan Qing Qu, Yun Xiao Yun, Rui Long Zhang, Cai Ren Wang, **Vincent Kam Wai Wong**, Hui Miao Wang, Meng Han Liu, Li Qun Qu, Jian Hui Wu, Hang Hong Lo, Betty Yuen Kwan Law#. Exosomal delivery of rapamycin modulates blood-brain barrier penetration and VEGF axis in glioblastoma. *Journal of Controlled Release*. 2025 Mar 7:113605.
  12. Wuyan Zheng†, Wanyu Wu†, Yuhan Li†, Bo Qin, Yuping Wang, Yunhan Zeng, Betty Yuen Kwan Law and **Vincent Kam Wai Wong\***. Lycorine Pre-Treatment Alleviates Microglia Inflammation After Cerebral Ischemia by Inhibiting NF-κB Phosphorylation. *Brain Sciences*. 2025, 15(3), 290.
  13. Jiu-Jie Yang\*, Zhi-Li\*, Lin-Na Wang, Bai-Xiong Huang, Jerome P.L. Ng, Xiong-Fei Xu, Yu-Ping Wang, David Wei Zhang, Bo-Qin, Ding-Qi Zhang, Chang Liu, Wei dan Luo, Betty Yuen Kwan Law, Hui-Miao Wang, Meng-Han Liu, Xiao-Yun Yun, Joyce Tsz Wai Chan, Wan Yu Wu, Yi Ting Li, Peter Kam Fai Cheung, Man Chon Pou, Kat Sang Ha, Wang Fai Ao Ieong, Chi Hou Leong, Kit Ieng Leong, Chan Wang Lei, Lek Hang Cheang# & **Vincent Kam Wai Wong#**. X-chromosome-linked miR-542-5p as a key regulator of sex disparity in rats with adjuvant-induced arthritis by promoting Th17 differentiation. *Biomarker Research* 2025 Mar 1;13(1):36.

14. Jialin Yu, Zonglin You, Vincent Kam Wai Wong, Min Chen, Wenfeng Liu. Novel Cinnamic Acid Derivatives Containing Naproxen as NLRP3 Inhibitors: Synthesis and Evaluation of Their Biological Activity. *Chem Biodivers*. 2024 Dec 29:e202402700.
15. Yonglian Li, Zonglin You, Vincent Kam Wai Wong, Min Chen, Kun Zhang, Wenfeng Liu, Suqing Zhao. Synthesis and Biological Evaluation of Naproxen Derivatives as Novel NLRP3 Inhibitors. *Chem Pharm Bull* (Tokyo). 2024;72(11):979-988.
16. Liquan Qu, Yong Tang, Jianhui Wu, Xiaoyun Yun, Hang Hong Lo, Linlin Song, Xingxia Wang, Huimiao Wang, Ruilong Zhang, Menghan Liu, Cairen Wang, Jerome P. L. Ng, Xianjun Fu, Io Nam Wong, Vincent Kam Wai Wong\* & Betty Yuen Kwan Law\*. FBXL16: a new regulator of neuroinflammation and cognition in Alzheimer's disease through the ubiquitination-dependent degradation of amyloid precursor protein. *Biomarker Research*. (2024) 12:144.
17. Xiaoang Li, Imran Khan, Ruixuan Han, Guoxin Huang, Wenrui Xia, Lin Yin, Wai Kit Leong, Lu Su, Betty Yuen-Kwan Law, Vincent Kam Wai Wong, Qiang Wu, Xiaoling Guo, W.L. Wendy Hsiao. Gynostemma pentaphyllum saponins shield mice from peanut allergy by modulation of gut microbiota: A novel approach for peanut allergy management. *Phytomedicine* 135 (2024) 156101.
18. Yonglian Li, Yingfan Cao, Vincent Kam Wai Wong, Min Chen, Wenfeng Liu, Suqing Zhao. Inhibition of LPS-induced NO production by plant essential oils. *Food Sci Biotechnol* (2024). <https://doi.org/10.1007/s10068-024-01738-2>.
19. Liang Jin†, Jianping Gan†, Xuewei Li, Yun Lu, Yue Wang\* and Vincent Kam Wai Wong\*. Rheumatoid arthritis and COVID-19 outcomes: A Systematic Review and Meta-analysis. *BMC Rheumatology*. 2024 Nov 12;8(1):61.
20. Guo xin Huang, Jingyi Wang, Lin Yin, Imran Khan, Betty Yuen Kwan Law, Yi Zheng, Mengze Xu, Vincent Kam Wai Wong and W L Wendy Hsiao. The impact of test anxiety on oral microbiota among medical students-A pilot study. *Stress Health*. 2024 Sep 18:e3479.
21. Yonglian Li, Kun Zhao, Zhidi Wu, Yujun Zheng, Jialin Yu, Sikun Wu, Vincent Kam Wai Wong, Min Chen, Wenfeng Liu\*, Suqing Zhao\*. Discovery of cinnamic acid derivatives as potent anti-H. pylori agents. *Molecules*, 2024 Sep 25;29(19):4548.
22. Mengyu Wang, Liquan Qu, Xinying Du, Peng Song, Jerome P. L. Ng, Vincent Kam Wai Wong, Betty Yuen Kwan Law\*, Xianjun Fu\*. Natural Products and Derivatives Targeting Metabolic Reprogramming in Colorectal Cancer: A Comprehensive Review. *Metabolites* 2024 Sep 9;14(9):490.
23. Xing Xia Wang†, Xiang Ji†, Jing Lin†, Io Nam Wong, Hang Hong Lo, Jian Wang, Liquan Qu, Vincent Kam Wai Wong, Sookja Kim Chung\* and Betty Yuen Kwan

Law\*. GPCR-Mediated Natural 1 Products and Compounds: Potential Therapeutic Targets for the Treatment of Neurological Diseases. *Pharmacol Res.* 2024 Sep 4:208:107395.

24. Bo Qin, Shi-jie Fu, Xiong-fei Xu, Jiu-jie Yang, Yuping Wang, Lin-na Wang, Bai-xiong Huang, Jing Zhong, Wan-yu Wu, Heng-ao Lu, Betty Yuen Kwan Law, Nick Wang, Io Nam Wong\*, **Vincent Kam Wai Wong\***. Far-infrared radiation and its therapeutic parameters: A superior alternative for future regenerative medicine? *Pharmacol Res.* 2024 Aug 14:208:107349. doi: 10.1016/j.phrs.2024.107349.
25. Ying-Qi Song\*, Yiwen Xu\*, Li Jun Yang\*, Ling Wang\* Shaozhen Jing, Guan-Jun Yang, Daniel Shiu-Hin Chan, Chun-Yuen Wong, Wanhe Wang#, **Vincent Kam Wai Wong#**, Chung-Hang Leung#. Probing the AFF4–CCNT1 protein-protein interaction using a metal-organic conjugate for treating triple-negative breast cancer. *Chemical Engineering Journal.* 496 (2024) 153685
26. Di Wang, Jiahui Lu, Jiaming Zhou, **Vincent Kam Wai Wong**. Useful or not? The discussion of traditional Chinese medicine to treat COVID-19 on a Chinese social networking site. *BMJ Global Health.* 2024 Jun 10;9(6):e014398.
27. Fang Ren, Shiqiao Zhao, Xin He, Hanghong Lo, **Vincent Kam Wai Wong**, Betty Yuen Kwan Law, Anguo Wu, Juan Zhang. Discovery and mechanistic study of Imperatorin that inhibits HBsAg expression and cccDNA transcription. *Journal of Medical Virology.* 2024 May;96(5):e29669.
28. Yingfan Cao, Zonglin You, Yongjing Cao, Yonglian Li, **Vincent Kam Wai Wong**, Min Chen, Kun Zhang, Wenfeng Liu\*. Synthesis and in vitro characterization of naproxen derivatives as novel anti-inflammatory agents. *Journal of Molecular Structure.* Volume 1309, 5 August 2024, 138158.
29. Zhang, L., Wang, J. Y., He, X., Wu, M., Li, G. P., & **Vincent Kam Wai Wong\***. (2024). *Zhongguo yi xue ke xue yuan xue bao*. Acta Academiae Medicinae Sinicae, 46(1), 1–10. <https://doi.org/10.3881/j.issn.1000-503X.15831>.
30. 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.* Volume 112, January 2024, 105962
31. 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.* 2024 Feb:124:155310.



32. 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.
33. 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<sup>R211\*</sup> ameliorates inflammatory arthritis in AIA rats via inhibition of TBK1-IRF3 innate immune response. *Inflammation Research*. 2023 Dec;72(12):2199-2219..
34. 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  $\beta$ -amyloid and Tau proteins. *Phytotherapy Research* Accepted
35. 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.
36. 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  $\beta$ -amyloidosis. *Phytomedicine*. 122 (2024) 155121.
37. 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.
38. Richa Sharma, Lalit Yadav, Ali Adnan Nasim, Ravi Kant Yadav, Ruihong Chen, Neha Kumari, Fan Ruiqi, Ashoke Sharon, Nawal Kishore Sahu, Sirish Kumar Ippagunta, Paolo Coghi \*, **Vincent Kam Wai Wong \***, Sandeep Chaudhary\*. Chemo-/Regio-Selective Synthesis of Novel Functionalized Spiro[pyrrolidine-2,3'-



oxindoles] under Microwave Irradiation and Their Anticancer Activity *Molecules*. 2023, 28(18), 6503.

39. Xingxia Wang<sup>†</sup>, Wei Hu<sup>†</sup>, Liquan Qu<sup>†</sup>, 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  $\alpha$ -synuclein and dopamine release for improving cognitive and motor deficits in Parkinson's disease. *Pharmacological Research* 2023 Oct;196:106874.
40. 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.
41. 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.
42. 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.
43. Feng-Dan Zhu<sup>†</sup>, Xue Chen<sup>†</sup>, Lu Yu<sup>†</sup>, 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.
44. Richa Sharma<sup>1</sup>, Mohit Kumar Tiwari<sup>1</sup>, 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.

45. Ying-Qi Song, Guo-Dong Li, Dou Niu, Feng Chen, Shaozhen Jing, **Vincent Kam Wai Wong**, Wanhe Wang\* & Chung-Hang Leung\*. A robust luminescent assay for screening alkyladenine DNA glycosylase inhibitors to overcome DNA repair and temozolomide drug resistance. *Journal of Pharmaceutical Analysis* 2023 May;13(5):514-522.
46. Yuan-Qing Qu<sup>a,b\*</sup>, Lin-Lin Song<sup>a\*</sup>, Su-Wei Xu<sup>a,c</sup>, Margaret Sum Yee Yu<sup>a</sup>, Onat Kadioglu<sup>d</sup>, Francesco Michelangeli<sup>c</sup>, Betty Yuen Kwan Law<sup>a</sup>, Thomas Efferth<sup>d</sup>, Christopher Wai-Kei Lam<sup>b#</sup>, **Vincent Kam Wai Wong<sup>a#</sup>**. Pomiferin targets SERCA, mTOR, and P-gp to induce autophagic cell death in apoptosis-resistant cancer cells, and reverses the MDR phenotype in cisplatin-resistant tumors *in vivo*. *Pharmacological Research*. 2023 May;191:106769.
47. Ou, Yi, You, Zonglin, Yao, Min, Xue, Xiu, Chen, Min, Wu, Rihui, Gan, Li-She, Li, Dongli, Wu, Panpan, Xu, Xuetao, Wong, Wing-Leung, **Wong, Vincent Kam Wai**, Liu, Wenfeng, Ye, Jiming, Jin, Jingwei. Naproxen-Derived New Compound Inhibits the NF- $\kappa$ B, MAPK and PI3K/Akt Signaling Pathways Synergistically with Resveratrol in RAW264.7 Cells. *Molecules* 2023 Apr 12;28(8):3395.
48. 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* 2023 May;61:102637.
49. Shijie Fu, Yujian Lan, Guoyou Wang, Dingsu Bao, Bo Qin, Qiu Zheng, Huan Liu, **Vincent Kam Wai Wong\***. External stimulation: A potential therapeutic strategy for tendon-bone healing. *Front Bioeng Biotechnol*. 2023 Mar 31;11:1150290.
50. 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*. 2023 Mar 24;10(6):2252-2255.
51. 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>. Development of a dual targeting scaffold of SET7/MLL inhibitor for castration-resistant prostate cancer treatment. *Genes & Diseases*. 2023 Nov; 10(6): 2260–2262.
52. Yunjian Ma, Zongquan Li, Hao Zhang, **Vincent Kam Wai Wong**, Frank Hollmann\*, Yonghua Wang\*. Biezymatic Cascade Combining a Peroxygenase with an

Oxidase for the Synthesis of Aromatic Aldehydes from Benzyl Alcohols. *Catalysts*. 2023, 13(1), 145.

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54. Giovanni Ribaudo\*, 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.* 2023 Apr;101(4):809-818.
55. 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*. 2023 Jan;109:154548.
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### **Book Chapter Publication**

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

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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

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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\***.

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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
11. 2025 Bank of China Excellent Research Award Winner