

Dr. Betty Law Yuen Kwan (Ph.D.) 羅婉君



Current Position: Professor

Faculty: State Key Laboratory of Quality Research in Chinese Medicine,
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Research Areas and achievements 研究領域及成果

羅婉君博士於 2001 畢業於香港科技大學生物系，2009 年於香港大學取得哲學博士學位。在取得學位後，分別於香港大學及香港中文大學擔任高級及榮譽研究助理，其後於香港浸會大學擔任博士後研究員並繼續其藥理學研究工作。從 2011 年起，於中藥質量研究國家重點實驗室(澳門科技大學)擔任助理教授，副教授及教授至今。2023 及 2024 獲選為美國斯坦福大學發報的全球前 2% 頂尖科學家之一。長期致力於自噬活性及腦神經保護的中藥藥理研究，為防治神經退行性疾病的藥理調控機制提出創新活性成分及靶點。近年研究成果：(1) 發現多種創新天然自噬活性成分，能加速降解引發神經退行性疾病的致病蛋白，並減輕其神經毒性；(2) 成功結合高效液相色譜及生物層干涉光學測量分析技術，從複雜中藥成分中找出靶向致病蛋白的有效成分，為中藥藥理研究提供快速的活性成分篩選方法；(3) 深入研究創新應用中藥小分子在神經保護及多種疾病上的潛在作用，已發表 SCI 論文超過 100 篇；曾獲得美國專利 5 項，澳大利亞發明專利 14 項；曾承擔國家自然科學聯合或澳門科學技術發展基金專案共 8 項，包括以專案負責人身份承擔國家自然科學基金委員會及澳門科學技術發展基金聯合科研資助項目 1 項(NSFC-FDCT)；澳門科學技術發展基金與廣東省科技廳聯合科研資助項目 1 項；橫向課題 3 項；所有課題累積獲批總金額超過 1000 萬澳門元；2012 年至今，指導博士及碩士生共 30 多名。曾於各知名 SCI 期刊包括 *Nature Communications*, *Pharmacology and Therapeutics*, *Pharmacological Research*, *Redox Biology*, *Biomarker research*, *EBioMedicine*, *Signal*

Transduction and Targeted Therapy, Journal of Hepatology, Cell Death & Diseases, Molecular Cancer Therapeutics, Phytomedicine, Neural Regeneration Research, Ageing Research Reviews, Cancer Letters 及 *Autophagy* 等發表學術文章, 並同時擔任 *Pharmacological Research* (Elsevier) 及 *HELIYON- Pharmacology section* (Elsevier) 的諮詢編委及主編輯。2015 獲得中銀(澳門)學術研究優秀獎; 2016 年獲得中珠醫療生命科學科研一等獎及 2017 年獲得中珠醫療生命科學服務一等獎。現擔任澳門實驗室技師協會會員 (MLTA, 澳門); 澳門埃爾文內爾博士生物物理與創新藥物實驗室骨幹成員等。

Educated and obtained Ph.D. degree in The University of Hong Kong (2009), Dr. Law has worked as an assistant professor, associate professor and professor at the State Key Laboratory of Quality Research in Traditional Chinese Medicine (Macau University of Science and Technology) since 2011. In 2023 and 2024, Dr. Law was selected as one of the top 2% scientists in the world as reported by Stanford University ranks. Dr. Law has long been committed to the pharmacological research on the novel autophagic activity and neuroprotective mechanisms of traditional Chinese medicines (TCMs), providing innovative drug candidates and targets for the intervention and prevention of aging-related neurodegenerative diseases. New discoveries in recent years: (1) The successful identification of novel autophagy natural ingredients for accelerating the degradation of mutant proteins; (2) The successful application of combining the use of high-performance liquid chromatography (HPLC) and Biolayer Interferometry (BLI) to identify effective ingredients from complex TCM ingredients which targeting mutant disease proteins. Hence, providing a rapid and accurate identification method for pharmacological research on TCMs; (3) In-depth exploration on mechanistic action of TCMs in neuroprotection and various diseases. Dr. Law has published more than 100 SCI papers and obtained 5 US patents and 14 Australian invention patents. As the project principal investigator, she has undertaken a total of 8 projects from the Science and Technology Development Fund of Macau (FDCT) and the Macau fund Foundation (Total: MOP 7 million), including one National Natural Science Foundation of China (NSFC)-FDCT joint grant, and one Joint Research Funding Program between the Macau Science and Technology Development Fund (FDCT) and the Department of Science and Technology of Guangdong Province (GDST); 3 horizontal research grants. The total approved budget of all projects exceed 10 million MOP. From 2011 to now, she has supervised more than 30 doctoral and master students. Besides, she has published various academic papers on SCI journal including *Nature Communications, Pharmacology and Therapeutics, Pharmacological Research, Redox Biology, Biomarker research, EBioMedicine, Signal Transduction and Targeted Therapy, Journal of Hepatology, Neural Regeneration Research, Cell Death & Diseases,*

Molecular Cancer Therapeutics, Phytomedicine, Ageing Research Reviews, Cancer Letters and Autophagy, etc.. Dr. Law is also working as the consulting and Section Editor-in-Chief for *Pharmacological Research* (Elsevier) and *HELIYON* (Elsevier) respectively. In 2015, she won the Bank of China (Macau) Academic Research Excellence Award; in 2016, she won the first prize of Zhongzhu Medical Life Sciences Scientific Research Award; in 2017, she won the first prize of Zhongzhu Medical Life Sciences Service Award. She currently serves as a member of the Macau Laboratory Technicians Association (MLTA, Macau), and a key member of Dr. Erwin Neher's Biophysics and Innovative Drug Laboratory in Macau.

Academic Qualifications

2009. 12 Ph.D., The University of Hong Kong, Hong Kong
2004. 05 M.Sc., Hong Kong University of Science and Technology, Hong Kong
2001. 11 B.Sc., Hong Kong University of Science and Technology, Hong Kong

Professional Chronology

2024.7- Now Professor, Macau University of Science and Technology
2017.7- 2024.6 Associate Professor, Macau University of Science and Technology
2011.9 - 2017.6 Assistant Professor, Macau University of Science and Technology
2011.3 - 2011.8 Postdoctoral Fellow, Hong Kong Baptist University
2010.5 - 2011.2 Research Associate, The University of Hong Kong
2010.5 - 2011.2 Honorary Research Associate, The Chinese University of HK
2009.11- 2010.4 Research Assistant I, The University of Hong Kong

Academic Awards

- ◇ Eli Lilly Asia Outstanding Graduate Thesis Award 禮來亞洲傑出論文獎 2010
- ◇ Bank of China (BOC, Macau Branch) Excellent Research Award 中銀(澳門)學術研究優秀獎 2015
- ◇ Zhongzhu Awards for Life Science Recognizing First Prize in Research 中珠醫療生命科學科研一等獎 2016
- ◇ Zhongzhu Awards for Life Science Recognizing First Prize in Service 中珠醫療生命科學服務一等獎 2017
- ◇ The World Top 2 % scientists (Stanford University ranks) 全球前 2% 頂尖科學家 2023, 2024 and 2025(美國斯坦福大學排名)

Representative Publications

1. Xiaoyun Yun, Liqun Qu, Hanghong Lo, Jianhui Wu, Wu Zeng, Ka In U, Yan Chen, Baoquan Pan, Bin Tang, Wei Zhang, Yuping Wang, Xiongfei Xu, Jie Zhou, Wendy WL Hsiao, Vincent Kam Wai Wong*, Cheng Lei*, **Betty Yuen Kwan Law***. OGG1-driven pathogenesis in Kawasaki Disease: Identification and pharmacological regulation of a molecular marker validated in transgenic mice and clinical models. *Pharmacological research* 2025 Oct:220:107939. doi: 10.1016/j.phrs.2025.107939. Epub 2025 Aug 31.
2. Anxiolytic effects of corilagin by targeting Htr2c through the activation of TrkB/CREB/BDNF pathway. Xiaoyun Yun, Jianhui Wu, Jie Zhou, Linlin Song, Yongpei Tang, Hanghong Lo, Jerome P. L. Ng, Menghan Liu, Zhikang Wang, Liqun Qua, Huimiao Wang, Ruilong Zhang, Cairen Wang, Linna Wang, Jiujiu Yang, Sookja Kim Chung#, Vincent Kam Wai Wong #, **Betty Yuen Kwan Law#**. *Phytomedicine* 2025 Sep:145:157029. Epub 2025 Jul 1.
3. 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* Volume 381, 10 May 2025, 113605.
4. Qi Wu, Yan Zeng, Kang Geng, Man Guo, Fang-yuan Teng , Pi-jun Yan, Yi Lei, Yang Long, Zong-zhe Jiang, **Betty Yuen-Kwan Law***, Yong Xu*. The role of IL-1 family cytokines in diabetic cardiomyopathy. *Metabolism* Volume 163, February 2025, 156083.
5. Yan Zeng, Man Guo, Qi Wu, Xiaozhen Tan, Chunxia Jiang, Fangyuan Teng, Jiao Chen, Fanjie Zhang, Xiumei Ma, Xinyue Li, Junling Gu, Wei Huang, Chunxiang Zhang, **Betty Yuen-Kwan Law***, Yang Long*, Yong Xu*. Gut microbiota-derived indole-3-propionic acid alleviates diabetic kidney disease through its mitochondrial protective effect via reducing ubiquitination mediated-degradation of SIRT1. *J Adv Res* 2024 Aug 13:S2090-1232(24)00361-8.
6. Liqun 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* volume 12, Article number: 144 (2024).

7. Xing Xia Wang#, Xiang Ji#, Jing Lin#, Io Nam Wong, Hang Hong Lo, Jian Wang, Liqun Qu, Vincent Kam Wai Wong, Sookja Kim Chung*, **Betty Yuen Kwan Law****. GPCR-mediated natural products and compounds: Potential therapeutic targets for the treatment of neurological diseases. *Pharmacological research* 208 (2024) 107395.
8. 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***. Therapeutic Effects of 5-demethylnobiletin on Mouse Model of Vitiligo Induced by Hydroquinone. *Journal of Functional Foods. Volume 112, January 2024, 105962*.
9. Yong Tang#, Jing Wei#, Xiao-Fang Wang#, Tao Long, Xiaohong Xiang, Liqun Qu, Xingxia Wang, Chonglin Yu, Xingli Xiao, Xueyuan Hu, Jing Zen, Qin Xu, Anguo Wu, Jianming Wu, Dalian Qin* Xiaogang Zhou* and **Betty Yuen-Kwan Law***. Activation of autophagy by *Citri Reticulatae Semen* ameliorates β -amyloid-induced cell death and cognition deficits in Alzheimer's disease model. *Neural Regeneration Research*. 2024 Nov 1;19(11):2467-2479. doi: 10.4103/NRR.NRR-D-23-00954. Epub 2024 Jan 31.
10. Meng Han Liu, Yong Tang, Li Qun Qu, Lin Lin Song, Hang Hong Lo, Rui Long Zhang, Xiao Yun Yun, Hui Miao Wang, Joyce Tsz Wai Chan, Jian Hui Wu, Cai Ren Wang, Vincent Kam Wai Wong, An Guo Wu, **Betty Yuen-Kwan Law#**. Raddeanin A isolated from *Anemone raddeana Regel* improves pathological and cognitive deficits of Alzheimer's disease by targeting β -amyloidosis. *Phytomedicine*. Vol. 122, January 2024, 155121.
11. Xingxia Wang#, Wei Hu#, Liqun 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*. <https://doi.org/10.1016/j.phrs.2023.106874>, 28 July 2023.
12. Wei-Dan Luo#, Yu-Ping Wang, Jun Lv, Yong Liu, Yuan-Qing Qu, Xiong-Fei Xu, Li-Jun Yang, Zi-Cong Lin, Lin-Na Wang, Rui-Hong Chen, Jiu-Jie Yang, Ya-Ling Zeng, Rui-Long Zhang, Bai-Xiong Huang, Xiao-Yun Yun, Xuan-Ying Wang, Lin-Lin Song, Jian-Hui Wu, Xing-Xia Wang, Xi Chen, Wei Zhang, Hui-Miao Wang, Li-Qun Qu, Meng-Han Liu, ... **Betty Yuen Kwan Law*** and Vincent Kam Wai Wong*. Age-related self-DNA accumulation may accelerate arthritis in rats and in human rheumatoid arthritis. *Nature Communications*. Volume 14, Article number: 4394 (2023).
13. LinLin Song#, YongPei Tang#, **Betty Yuen Kwan Law***. Targeting Calcium

Signaling in Alzheimer's Disease: Challenges and Promising Therapeutic Avenues. *Neural regeneration research*. Issue 3, July 20, 2023. | DOI: 10.4103/1673-5374.380898.

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*. Volume 117, August 2023, 154916.
15. Lin Lin Song#, Yuan Qing Qua, Yong Pei Tang, Xi Chen, Hang Hong Lo, Li Qun Qu, Yun Xiao 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 β -amyloid via endoplasmic reticulum-mitochondrial calcium signal transduction cascade in APP/PS1 double transgenic Alzheimer's disease mice. *Redox Biology*. Volume 61, May 2023, 102637.
16. Yi Liu, Han Li, Zhihong Luo, You Yu, Jingzhao Yang, Min Zhang, **Betty Yuen Kwan Law**, Zan Huang, Wenhua Li. Artesunate, a new antimalarial clinical drug, exhibits potent anti-AML activity by targeting the ROS/Bim and TFRC/Fe²⁺ pathways. *British Journal of Pharmacology*. 11 Nov 2022. <https://doi.org/10.1111/bph.15986>.
17. Ting Liu, Kangdi Li, Zhenxing Zhang, Jinghui Peng, Jingzhao Yang, **Betty Yuen Kwan Law**, Xin Liu, Wenhua Li. Tetrandrine Inhibits Cancer Stem Cell Characteristics and Epithelial to Mesenchymal Transition in Triple-Negative Breast Cancer via SOD1/ROS Signaling Pathway. *Am J Chin Med* 2023 Jan 20;1-20. doi: 10.1142/S0192415X23500222.
18. Han Li, You Yu, Yi Liu, Zhihong Luo, **Betty Yuen Kwan Law**, Yi Zheng, Xing Huang, Wen hua Li. Ursolic acid enhances the antitumor effects of sorafenib associated with Mcl-1 - related apoptosis and SLC7A11 - dependent ferroptosis in human cancer. *Pharmacological Research*. Volume 182, August 2022, 106306.
19. 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***, Chen Juan*. Ciliatoside A, isolated from *Peristrophe japonica*, inhibits HBsAg expression and cccDNA transcription by inducing autophagy. *Antiviral Research*. 2023 Jan;209:105482. doi: 10.1016.

20. Liqun Qu, Jianhui Wu, Yong Tang, Xiaoyun Yun, Hang Hong Lo, Lu Yu, Wenhua Li, Anguo Wu* and **Betty Yuen Kwan Law***. Licochalcone B, a Natural Autophagic Agent for Alleviating Oxidative Stress-Induced Cell Death in Neuronal Cells and *Caenorhabditis elegans* Models. *Pharmaceuticals* 2022, 15, 1052. <https://doi.org/10.3390/ph15091052> .
21. 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.* 2022 Nov 30. doi: 10.1111/cbdd.14187.
22. 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.
23. 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*. <https://doi.org/10.1016/j.phymed.2022.154548>
24. Jiujiie 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.
25. 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 Uthaiyibull*, 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.
26. 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.
27. Paolo Coghia, Xiao Yun Yunb, Jerome P. L. Ng, **Betty Yuan Kwan Law**, Maurizio Memoc, Alessandra Gianoncellic Vincent Kam Wai Wong* and Giovanni Ribaudo*. 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.
28. 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 Mar 16;15(3):360.
29. 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.* Mar 2022(1), M1351; <https://doi.org/10.3390/M1351>
30. 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.
31. Yuan-Yuan Yong#, Li Zhang#, Yu-Jiao Hu#, Jian-Ming Wu, Lu Yan, Yi-Ru Pan, Yong Tang, Lu Yu, **Betty Yuen-Kwan Law**, Chong-Lin Yu, Jie Zhou, Mao Li, Da-Lian Qin*, Xiao-Gang Zhou*, An-Guo Wu*. Targeting autophagy regulation in NLRP3 inflammasome-mediated lung inflammation in COVID-19. *Clinical Immunology* 2022 Aug 6;109093.
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 thoningianin A in Alzheimer's disease. *Inflammation and Regeneration* 2022, 42(1):25.
33. Tao Long#, Yong Tang#, Yan-Ni He#, Chang-Long He, Xue Chen, Min-Song Guo, Jian-Ming Wu, Lu Yu, Chong-Lin Yu, **Betty Yuen-Kwan Law**, Da-Lian Qin*, An-Guo Wu*, Xiao-Gang Zhou*. Citri Reticulatae Semen extract promotes healthy

aging and neuroprotection via autophagy induction in *Caenorhabditis elegans*. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2022, July, 20: 154150

34. An-Guo Wu*,#, Yuan-Yuan Yong#, Yi-Ru Pan#, Li Zhang, Jian-Ming Wu, Yue Zhang, Yong Tang, Jing Wei, Lu Yu, **Betty Yuen-Kwan Law**, Chong-Lin Yu, Jian Liu, Cai Lan, Ru-Xiang Xu*, Xiao-Gang Zhou*, Da-Lian Qi*. Targeting Nrf2-Mediated Oxidative Stress Response in Traumatic Brain Injury: Therapeutic Perspectives of Phytochemicals. *Oxidative Medicine and Cellular Longevity*. 2022, April: 1015791.
35. Tao Long#, Qian Wu#, Jing Wei#, Yong Tang, Yan-Ni He, Chang-Long He, Xue Chen, Lu Yu, Chong-Lin Yu, **Betty Yuen-Kwan Law**, Jian-Ming Wu, Da-Lian Qin*, An-Guo Wu*, and Xiao-Gang Zhou*. Ferulic Acid Exerts Neuroprotective Effects via Autophagy Induction in *C. elegans* and Cellular Models of Parkinson's Disease. *Oxidative Medicine and Cellular Longevity*. 2022, Feb: 3723567.
36. Lu Yan#, Min-Song Guo#, Yue Zhang#, Lu Yu, Jian-Ming Wu, Yong Tang, Wei Ai, Feng-Dan Zhu, **Betty Yuen-Kwan Law**, Qi Chen, Chong-Lin Yu, Vincent Kam-Wai Wong, Hua Li, Mao Li, Xiao-Gang Zhou*, Da-Lian Qin*, and An-Guo Wu*. Dietary Plant Polyphenols as the Potential Drugs in Neurodegenerative Diseases: Current Evidence, Advances, and Opportunities. *Oxidative Medicine and Cellular Longevity*. 2022, 2022: 5288698.
37. 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, Jian Liu, Da-Lian Qin*, Xiao-Gang Zhou*, An-Guo Wu*. Polygala saponins inhibit NLRP3 inflammasome-mediated neuroinflammation via SHP2-Mediated mitophagy. *Free Radical Biology and Medicine*. 2022 Feb 1;179:76-94.
38. Lai J#, Tang Y#, Yang F, Chen J, Huang FH, Yang J, Wang L, Qin D, **Betty Yuen-Kwan Law** *, Wu AG*, Wu JM*. Targeting autophagy in ethnomedicine against human diseases. *J Ethnopharmacol*. 2022 Jan 10; 282: 114516.
39. Minsong Guo#, Fengdan Zhu#, Wenqiao Qiu#, GanQiao, **Betty Yuen-Kwan Law**, LuYu, JianmingWu, YongTang, ChonglinYu, Dalian Qin*, Xiaogang Zhou*, AnguoWu*. High-throughput screening for amyloid- β binding natural small-molecules based on the combinational use of biolayer interferometry and UHPLC-DAD-Q/TOF-MS/MS. *Acta Pharmaceutica Sinica B*. 2022, 12(4):1723-1739 <https://doi.org/10.1016/j.apsb.2021.08.030>.

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41. Lai J#, Tang Y#, Yang F, Chen J, Huang FH, Yang J, Wang L, Qin D, **Betty Yuen-Kwan Law** *, Wu AG*, Wu JM*. Targeting autophagy in ethnomedicine against human diseases. *J Ethnopharmacology*. 2022 Jan 10; 282: 114516.
42. 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* and **Betty Yuen Kwan Law** *. Extracellular Vesicle Delivery of Neferine for the Attenuation of Neurodegenerative Disease Proteins and Motor Deficit in an Alzheimer's Disease Mouse Model. *Pharmaceuticals* 2022, 15, 83. <https://doi.org/10.3390/ph15010083>. Volume 176, February 2022, 106082
43. Wai kit Leong, Guo xin Huang, Wei lin Liao, Wen Rui Xia, Xiao ang Li, Zi ren Su Liang Liu, Qiang Wu, Vincent Kam Wai Wong, **Betty Yuen Kwan Law**, Cheng lai Xia, Xiao ling Guo, Imran Khan W.L and 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*. Volume 176, February 2022, 106082.
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Book Chapter

1. **Betty Yuen Kwan Law#**, Vincent Wong Kam Wai. **Book title:** Autophagy in Current Trends in Cellular Physiology and Pathology; **Chapter title:** Autophagy In Multidrug-Resistant Cancers (MDR) *Chapter 20 Page 435-454*; ISBN 978-953-51-2726-0; *InTech Publishing*, Croatia. June 2016.
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Teaching Modules

Under-graduate courses (UG)

- Biochemistry
- Biochemistry(*Laboratory*)
- Biochemistry & Molecular Biology
- Biochemistry & Molecular Biology (*Laboratory*)
- Pharmacological lab (*Laboratory*) (***Course coordinator***)

Post-graduate courses (PG)

- Modern Biotechnology
- Clinical Pharmacology
- Pharmaceutical English (***Course coordinator***)
- Clinical English on Chinese medicine (***Course coordinator***)