

Jerome Pak Lam NG



Position: Assistant Professor

Faculty: State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology

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Dr. Jerome Ng obtained the Higher Diploma in Applied and Analytical Chemistry (Distinction) from Hong Kong Institute of Vocational Education (Sha Tin) in 2011. In the same year, he was awarded Alistair Harvey Foundation Scholarship to pursue his BSc studies at the University of Sheffield in United Kingdom, where he achieved First Class Honors in Chemistry in 2013. He then continued his doctoral studies in the Department of Chemistry at the University of Hong Kong, focusing on organic synthesis and cycloaddition reactions. Following his graduation in 2019, he worked as a postdoctoral fellow at State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology. In January 2024, Dr. Ng assumes the position of Assistant Professor in the same institute.

Dr. Ng's research focuses on Organic and Medicinal Chemistry, with a particular emphasis on the discovery and development of anti-cancer, anti-arthritic and anti-inflammatory agents. This includes structural modifications of natural products derived from traditional Chinese medicine, the synthesis of bio-inspired compounds, exploring structure-activity relationships of derivatives and elucidating their mechanisms of action.

Research Area and Interest: Organic synthesis; Medicinal Chemistry; Developing anti-cancer and anti-arthritic agents, etc.

Education

2013	2019	PhD in Chemistry, The University of Hong Kong, Hong Kong SAR, China
2011	2013	BSc in Chemistry (First Class Honours), The University of Sheffield, United Kingdom
2009	2011	Higher Diploma in Applied and Analytical Chemistry (Distinction), Hong Kong Institute of Vocational Education (Sha Tin), Hong Kong SAR, China

Work Experience

Jan 2024 Present Assistant Professor, State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology

Oct 2019 Dec 2023 Postdoctoral Fellow, State Key Laboratory of Quality

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**, 72, 2199-2219, doi: 10.1007/s00011-023-01809-w.

SARS-CoV-2 Delta variant spike protein receptor-binding domain (RBD) as a target for tanshinones and antimalarials. *Natural Product Research*, **2022**, 36, 6150-6155, doi: 10.1080/14786419.2022.2057492.

15. 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 P. L. Ng**, Yu-Jiao Zhou, Xin He, Ming Tan, Zhen-Zhen Zhang*, Juan Chen*. Pimobendan Inhibits HBV Transcription and Replication by Suppressing HBV Promoters Activity, *Frontiers in Pharmacology*, **2022**, 13, 837115, doi: 10.3389/fphar.2022.837115.
16. Giovanni Ribaud*, Paolo Coghi*, Li Jun Yang, **Jerome P. L. Ng**, Andrea Mastinu, Maurizio Memo, Vincent Kam Wai Wong, 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*, **2022**, 36, 5358-5363, doi: 10.1080/14786419.2021.1925894.
17. 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**, 98, 153941, doi: 10.1016/j.phymed.2022.153941.
18. XiaoYun Yun, Yuhan Xie, **Jerome P. L. Ng**, Betty Yuen Kwan Law, Vincent Kam Wai Wong*, Paolo Coghi*,
2-Bromo-3-((1-(7-chloroquinolin-4-yl)-1H-1,2,3-triazol-4-yl)-methoxy)-benzaldehyde. *Molbank*, **2022**, 2022, M1351, doi: 10.3390/M1351.
19. Nuha Mahmoud, Mona Dawood, Qi Huang, **Jerome P. L. Ng**, Fang Ren, Vincent K.W. Wong*, Thomas Efferth*. 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*, **2022**, 94, 153826, doi: 10.1016/j.phymed.2021.153826.
20. Paolo Coghi, Li Jun Yang, **Jerome P. L. Ng**, Richard K. Haynes, Maurizio Memo, Alessandra Gianoncelli, Vincent K. W. Wong*, 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, 954, doi:10.3390/ph14100954.
21. Wu Zeng, An Guo Wu, Xiao-Gang Zhou, Imran Khan, Rui Long Zhang, Hang Hong Lo, Li Qun Qu, Lin Lin Song, Xiao Yun Yun, Hui Miao Wang, Juan Chen, **Jerome P. L. Ng**, Fang Ren, Si Yu Yuan, Lu Yu, Yong Tang, Guo Xin Huang, Vincent Kam Wai Wong, Sookja Kim Chung, Simon Wing Fai Mok, Da Lian Qin, Hua Lin Sun, Liang Liu*, W.L. Wendy Hsiao*, Betty Yuen Kwan Law*. Saponins isolated from *Radix polygalae* extent lifespan by modulating complement C3 and gut microbiota. *Pharmacological Research*, **2021**, 170, 105697, doi: 10.1016/j.phrs.2021.105697.

22. Paolo Coghi*, **Jerome P. L. Ng**, Ali A. Nasim, and Vincent K.W. Wong*. *N*-[7-Chloro-4-[4-(phenoxyethyl)-1*H*-1,2,3-triazol-1-yl]quinoline]-acetamide. *Molbank*, **2021**, 2021, M1213, doi: 10.3390/M1213.
23. Li Jun Yang, Rui Hong Chen, Sami Hamdoun, Paolo Coghi, **Jerome P. L. Ng**, David Wei Zhang, Xiaoling Guo, Chenglai Xia, Betty Yuen Kwan Law*, Vincent Kam Wai Wong*. Corilagin prevents SARS-CoV-2 infection by targeting RBD-ACE2 binding. *Phytomedicine*, **2021**, 87, 153591, doi: 10.1016/j.phymed.2021.153591.
24. Jiayun He, Shuk Mei Lam, **Jerome P. L. Ng**, Wing-Tak Wong, Pauline Chiu*. Intramolecular (4+3) Cycloadditions of Nitrogen-tethered Epoxy Enosilanes for the Synthesis of Heteropolycycles. *Chinese Chemical Letters*, **2019**, 30, 1523-1526, doi: 10.1016/j.ccllet.2019.04.051.
25. Fan Hu, **Jerome P. L. Ng**, Pauline Chiu*. Pyrroles as Dienes in (4+3) Cycloadditions. *Synthesis* **2019**, 51, 1073-1086, doi: 10.1055/s-0037-1611660.
26. Elizabeth H. Krenske*, Sarah Lam, **Jerome P. L. Ng**, Brian Lo, Sze Kui Lam, Pauline Chiu*, Kendall N. Houk*. Concerted Ring-Opening and Cycloaddition of Chiral Epoxy Enolsilanes with Dienes. *Angew. Chem. Int. Ed.* **2015**, 54, 7422-7425, doi: 10.1002/anie.201503003.

Book Chapter Publication

1. JiuJie Yang, **Jerome P. L. Ng**, Kaixi Zhang, Liang Liu and Vincent Kam Wai Wong. Pathogenic Role of microRNA in Rheumatoid Arthritis In Rheumatoid Arthritis, edited by Hechmi Toumi. London: *IntechOpen*, **2021**, doi: 10.5772/intechopen.99212.

Patent

1. Vincent Kam Wai Wong, Liang Liu, Paolo Coghi, Betty Yuen Kwan Law, **Jerome Pak Lam Ng**. Tripterine derivative and preparation method and application thereof. *CN patent*, **2021**, CN111848722B.