

梁麗嫻



職稱: 澳門科技大學, 副教授,
澳門藥物及健康應用研究院, 助理院長
埃爾文內爾博士生物物理與創新藥物實驗室, 執行主任

學院/部門: 中醫藥學院
中藥質量研究國家重點實驗室
埃爾文內爾博士生物物理與創新藥物實驗室

電郵地址: lhleung@must.edu.mo

電話: (853) 8897-2409

傳真: (853) 2888-0091

辦公室: H701

郵寄地址: 澳門氹仔偉龍馬路 澳門科技大學

簡介

梁麗嫻博士於 2001 年在香港中文大學分子生物技術學系取得學士學位, 並於 2003 年及 2006 年同校生物化學系及醫學院生理系分別取得碩士及博士學位, 隨後于香港大學李嘉誠醫學院病理學系及香港浸會大學中醫藥學院當博士後研究員, 從事關於肺癌的博士後研究工作。現為澳門科技大學中藥品質研究國家重點實驗室副教授, 澳門藥物及健康應用研究院助理院長。研究方向主要為肺癌靶向治療的中藥新藥研究。此外, 梁博士也致力於肺癌早期診斷及個性化醫學研究。研究成果發表在 Nature (Outlook)、Pharmacol Ther, Briefing Bioinform, Int J of Cancer, Leukemia, Oncogene, ARS, Cell Death Dis 等國際重要期刊上已發表 SCI 論文 123 篇, 其中第一作者文章 18 篇, 通訊作者文章 60 篇, 累積影響因數 (IF) 為 455.699, 影響因數 > 5 的有 11 篇, 最高影響因數為 712, 他引次數 4305, 單篇最高他引次數 825。獲國際發明授權專利 39 項。研究獲得澳門基金會, 澳門科學技術發展基金及中華人民共和國科學技術部與科學技術發展基金聯合科研資助專案等多項資助。分別在 2014 及 2018 年獲得國家教育部自然科學獎一等獎(第五排名人), 國家科技部與澳門科技發展基金聯合課題(2014)及國家自然科學基金海外及港澳學者合作研究基金專案(2018)。2013 年獲中銀學術研究優秀獎, 於 2014 年和 2018 年兩次獲澳門科學技術自然科學類一等獎, 2020 年獲國家中醫藥管理局授予青年岐黃學者稱號。受邀任國際知名藥理學雜誌 Pharmacol Res (IF 5.574, Q1 區間) 中藥及天然產物藥理刊部副主編, 是兩岸四地唯一受邀任此職位的學者。

教研領域

生物化學; 現代生物技術; 藥理實驗方法學; 中藥學研究進展; 臨床藥理學; 專業英語

學歷

2006.07 香港中文大學博士學位
2003.08 香港中文大學碩士學位
2001.08 香港中文大學學士學位

教學經驗

- 2019.9-今 澳門科技大學埃爾文內爾博士生物物理與創新藥物實驗室 / 執行主任
- 2015.9-今 澳門科技大學 / 副教授
- 澳門科技大學澳門藥物及健康應用研究院 / 助理院長
- 湖北省太和醫院 / 訪問教授
- 2017.10-今 廣州醫科大學附屬第一醫院 / 兼職教授
- 2017.11-今 項目顧問 / 強生製藥公司

學術成果

期刊文章:

SCI 期刊論文:

1. Zhong ZH, Yi ZL, Zhao YD, Wang J, Jiang ZB, Xu C, Xie YJ, He QD, Tong ZY, Yao XJ, **Leung EL**, Coghi PS, Fan XX, Chen M. "Pyronaridine induces apoptosis in Non - small cell lung cancer cells by upregulating DR5 expression and inhibiting EGFR." *Chem Biol Drug Des* 2021 Jul 21.
2. Jiang ZB#, Wang WJ#, Xu C#, Xie YJ#, Wang XR, Zhang YZ, Huang JM, Huang M, Xie C, Liu P, Fan XX, Ma YP, Yan PY, Liu L, Yao XJ*, Wu QB*, **Lai-Han Leung E***. "Luteolin and its derivative apigenin suppress the inducible PD-L1 expression to improve anti-tumor immunity in KRAS-mutant lung cancer." *Cancer Lett* 2021 Sep 01;515.
3. Huang J#, Liu D#, Wang Y#, Liu L, Li J, Yuan J, Jiang Z, Jiang Z, Hsiao WW, Liu H, Khan I, Xie Y, Wu J, Xie Y, Zhang Y, Fu Y, Liao J, Wang W, Lai H, Shi A, Cai J, Luo L, Li R, Yao X, Fan X, Wu Q, Liu Z, Yan P, Lu J, Yang M, Wang L, Cao Y*, Wei H*, **Leung EL***. "Ginseng polysaccharides alter the gut microbiota and kynurenine/tryptophan ratio, potentiating the antitumour effect of antiprogrammed cell death 1/programmed cell death ligand 1 (anti-PD-1/PD-L1) immunotherapy." *Gut* 2021 May 18.
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- Accuracy or novelty: what can we gain from target-specific machine-learning-based scoring functions in virtual screening?. Briefings Bioinformatics.2021 Jan 08
10. Wu Z, Zhu M, Kang Y, **Leung EL**, Lei T, Shen C, Jiang D, Wang Z, Cao D, Hou T. Do we need different machine learning algorithms for QSAR modeling? A comprehensive assessment of 16 machine learning algorithms on 14 QSAR data sets. Briefings Bioinformatics.2020 Dec 14
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1. Ahmed Y. Ali, Lee Farrand, Ji Young Kim, Sanguine Byun, Elaine Lai-Han Leung, Hyong Joo Lee and Benjamin K. Tsang. Chapter for “New Perspectives in Chemoresistant Ovarian Cancer”, *Ovarian Toxicology*. 2012 (Accepted)
2. Ronald R. Fiscus, Elaine L. Leung, Janica C. Wong and Mary G. Johlfs. Chapter for “ Ovarian Cancer/Book 1 ”, ed. Samir Farghaly, INTECH Open Access Publisher, Rijeka, Croatia, Accepted – August 16, 2011, Scheduled Publication – October 2011. Nitric oxide/protein kinase G-1a promotes c-Src activation, proliferation and chemoresistance in ovarian cancer

專利:

1. A novel treatment of Gefitinib-resistant non-small-cell lung cancer using sanguinarine. **Leung EL**, Fan XX, Liu L. (US patent provisional filed; Australia patent awarded for 8 years-2014100435)
2. The new application of an alkaloid derived from a Chinese herbal for treatment of cancer by inhibiting cholesterol synthesis and fatty acid oxidation. **Leung EL**, Fan XX, Liu L, Wu JL. (US patent provisional filed; Australia patent awarded for 8 years-2014100831)
3. Methods for Novel Drug Discovery, Treatment and Selective Targeting for Gefitinib-Resistant Non-Small-Cell Lung Cancer Harboring T790M Mutation. **Leung EL**, Liu L and Fan XX (US patent awarded-US 9439898 B2; Australia patent awarded for 8 years-2014100614)
4. The application of (Z) 3,4,5,4'-tetramethoxystilbene (TMS) in Gefitinib-resistant non-small-cell lung cancer cells. **Leung EL**, Fan XX, Liu L and Jiang ZB (US patent-awarded-9597299; Australia patent awarded for 8 years-2015100187)
5. Oncogene ROS1 kinase inhibitor. Yao XJ, **Leung EL**, Luo LX, Zhou YL and Liu L. (US patent awarded-9526722B1; Australia patent awarded for 8 years-2015100840)
6. Identification of new AMPK activator for treatment of lung cancer. **Leung EL**, Yao XJ, Wong VKW, Liu L and Chen X (US patent awarded-US 9364469 B1; Australia patent awarded for 8 years-2015101612)
7. Identification of New Chemical Structure as AMPK Activator for Treatment at EGFR^{L858R/T790M} Double Mutation Non-Small Cell Lung Cancer. (Method to treat lung cancer) Liu L, **Leung EL**, Yao XJ, Wong VKW and Chen Ci (US patent awarded- Patent No. 9,855,250 B1)
8. Identification of new role of mitoxantrone as a direct ROS1 oncogenic kinase inhibitor. Yao XJ, **Leung EL**, Luo LX, Hsiao WL and Liu L (US patent awarded for 8 years-US 9522125 B1; Australia patent awarded for 8 years- 2015101712)
9. C498-0065, a novel ROS1 inhibitor, demonstrates potent inhibition activity against ROS1 fusion oncokinase. Yao XJ, **Leung EL**, Luo LX and Liu L (US patent awarded-9782400B2; Australia patent awarded for 8 years- 2015101598)
10. PDEd inhibitor for the treatment of cancer. Yao XJ, **Leung EL**, Luo LX and Liu L (US patent awarded US 2017/0135979A1; Australia patent awarded for 8 year-2015101666)
11. ALK kinase inhibitor and its use. Yao XJ, **Leung EL**, Luo LX and Liang L (US patent filed; Australia patent awarded for 8 year- 2016101467)
12. Hydroxynaphthoquinone compounds (shikonin) for treating of non-small cell lung cancer. Liu L, **Leung EL**, Li X, Fan XX (US patent awarded 15/186,795; Australia patent awarded for 8 year-2016100891)

13. Methods for treating lung cancer (PKM2 activator). Liu L, **Leung EL**, Yao XJ and Li RZ (US patent awarded-9744145, Australia patent awarded for 8 year- 2017100105)
14. Methods of identifying a gene associated with a disease or pathological condition of the disease. Liu L, **Leung EL**, Yao XJ, Li Y and Pan HD.(US Patent No. 15/647,414 filed on 12 July 2017; Australia patent awarded for 8 year-2017100960)
15. Bufadienolide for treatment of non-small cell lung cancer. Liu L, **Leung EL**, Yao XJ, Li RZ and Fan XX. (US patent field, Australia awarded for 8 years-2017100644)
16. Method for treating cancer (BPTF small molecule). **Leung EL**, Xiao XJ, Liu L, Xu JH, Li Y and Wang QQ (US patent field, Australia patent awarded for 8 years-2018100077)
17. Method of treating cancer (PRMT5). Yao XJ, **Leung EL**, Liu L, Wang QQ, Xu JH & Li Y. (US patent filed, Australia patent awarded for 8 years-2018100078)
18. Method of treating cancer (KRAS SOS inhibitor 1). Yao XJ, **Leung EL**, Liu L, Fan XX, Xie C. (US patent awarded 15/84046).
19. Method of treating lung cancer (KRAS SOS inhibitor 2). Yao XJ, **Leung EL**, Liu L, Fan XX, Xie C. (US patent awarded 15/84047)
20. Combinational treatment of Ras-positive diseases with PDE delta inhibitor and direct autophagy inhibitor. Liang Liu, Ward DC, **Leung EL**, Yao XJ, Wong VKW, Luo LX. (US patent awarded US9861623B1)

研究項目

2020-2023	埃爾文內爾博士生物物理與中醫藥研究室
2019-2022	調整腸道微生態增強 PD1 抗體治療非小型細胞肺癌效果的新策略
2018	中药靶向 T 淋巴细胞调节肿瘤代谢重塑抗肿瘤免疫的分子机制
2016-2019	活性氧類與蛋白酶氧化還原對非小細胞型肺癌的調控與藥物干預
2015-2016	Next SeqTM 500 Next generation DNA sequencer
2015-2016	Next SeqTM 500 Next generation DNA sequencer work station
2014-2015	肺腺癌耐藥代謝生物標誌物鑒定與基於網絡調節藥物的發現
2013-2015	Investigation on the novel candidate anti-cancer drug from Chinese herbal medicine by modulating metabolic profiles of cancer cells

學術機構及社會任職

- 澳門生命科學學會/名譽顧問
- 世界中醫藥學會聯合會中醫免疫學專業委員會/常務理事

專業資格認證及獎項

- 2020 青年岐黃學者
- 2018 教育部高等學校自然科學獎一等獎
- 2018 中珠醫療生命科學獎-優秀醫藥教師獎 (科研獎特等獎)
- 2017 中珠醫療生命科學獎-優秀醫藥教師獎 (科研獎特等獎)
- 2015 年獲教育部高等學校自然科學類一等獎
- 2014 年獲澳門科學技術自然科學類一等獎
- 2013 年獲中銀學術研究優秀獎