

生化科技學系教師個人資料

職稱	助理教授	
姓名	魏佳俐	
最高學歷	國立陽明大學生物化學研究所 博士	
研究室名稱	應用生物科技研究室	
研究室編號	A32-519	
電話	(05) 271-7834	
E-mail	carriewei@mail.ncyu.edu.tw	

個人學經歷

1. 國立嘉義大學 生化科技學系 助理教授 (2007.2-)
2. 揚生生化科技股份有限公司 研發經理 (2002.8-2007.1)
3. 台北科技大學 生物科技所 兼任助理教授 (2006.8-2007.1)
4. 台北教育大學 自然科學教育學系 兼任助理教授 (2006.8-2007.1)
5. 國立陽明大學 生物化學研究所 博士
6. 國立陽明大學 生物化學研究所 碩士
7. 國立中興大學 森林系 林學組 學士

研究領域及專長

1. 篩選、分離和評估乳酸菌和酵母菌用於咖啡豆後製處理發酵（合作夥伴：守幄有限公司【饕選咖啡】）
2. 蔬果發酵液之耐酸性乳酸菌及酵母菌篩選及其應用於蔬果發酵和生物活性研究（合作夥伴：台灣酵素村股份有限公司）
3. 微生物發酵蛋白應用於經濟動物之產品開發（合作夥伴：本校動物科學系陳國隆教授、水生生物科學系董哲煌助理教授）
4. 抗憂鬱乳酸菌之功效研究（合作夥伴：益福生醫股份有限公司）
5. 舒緩經痛之本草精油開發（合作夥伴：揚生生化科技股份有限公司）
6. 擴環酶生產頭孢菌素抗生素之蛋白質工程研究（合作夥伴：交通大學 生物科技學系曾慶平教授）

研究成果：期刊論文

1. **Chia-Li Wei***, Sabrina Wang, Jui-Ting Yen, Yun-Fang Cheng, Chia-Li Liao, Chih-Chieh Hsu, Chien-Chen Wu and Ying-Chieh Tsai (2019)
Antidepressant-like activities of live and heat-killed *Lactobacillus paracasei*

- PS23 in chronic corticosterone-treated mice and possible mechanisms. *Brain Research*, 1711: 202-213 (SCI, 2018 Impact factor: 2.929; Neurosciences Ranking: 131/267=49.1%).
2. Chun-Liang Tung, Jyh-Cheng Chen, Chia-Hung Wu, Yi-Shuan Peng, Wen-Ching Chen, Hao-Yu Zheng, Yi-Jun Jian, **Chia-Li Wei**, Ya-Ting Cheng, Yun-Wei Lin*. (2017) Salinomycin acts through reducing AKT-dependent thymidylate synthase expression to enhance erlotinib-induced cytotoxicity in human lung cancer cells. *Experimental Cell Research* 357:59-66(SCI, 2018 Impact factor: 3.329; Oncology Ranking: 100/230=43.5%; Cell Biology Ranking: 105/193=54.4%).
 3. Kai-Sheng Liao, **Chia-Li Wei**, Jyh-Cheng Chen, Hao-Yu Zheng, Wen-Ching Chen, Chia-Hung Wu, Tai-Jing Wang, Yi-Shuan Peng, Po-Yuan Chang, Yun-Wei Lin*. (2016) Astaxanthin enhances pemetrexed-induced cytotoxicity by downregulation of thymidylate synthase expression in human lung cancer cells. *Regulatory Toxicology and Pharmacology* 81:353-361 (SCI, 2018 Impact factor: 2.996; MEDICINE, LEGAL Ranking: 2/17=11.8%; PHARMACOLOGY & PHARMACY Ranking: 104/267=39.0%).
 4. Jen-Chung Ko, Hao-Yu Zheng, Wen-Ching Chen, Yi-Shuan Peng, Chia-Hung Wu, **Chia-Li Wei**, Jyh-Cheng Chen, Yun-Wei Lin*. (2016) Salinomycin enhances cisplatin-induced cytotoxicity in human lung cancer cells via down-regulation of AKT-dependent thymidylate synthase expression. *Biochemical Pharmacology* 122:90-98 (SCI, 2018 Impact factor: 4.825; PHARMACOLOGY & PHARMACY Ranking: 25/267=9.4%).
 5. **Chia-Li Wei**, Shiou-Huei Chao, Wen-Bin Tsai, Pei-Shan Lee, Nai-Hung Tsau, Jih-Shan Chen, Wen-Lin Lai, James Ching-Yueh Tu, and Ying-Chieh Tsai* (2013) Analysis of bacterial diversity during the fermentation of *inyu*, a high-temperature fermented soy sauce, using nested PCR-denaturing gradient gel electrophoresis and the plate count method. *Food Microbiology* 33:252-361 (SCI, 2015 Impact factor: 3.682; FOOD SCIENCE & TECHNOLOGY Ranking: 12/125=9.6%).
 6. Wen-Lin Lai, He-Shing Chuang, Meng-Hwan Lee, **Chia-Li Wei**, Chin-Fu Lin, and Ying-Chieh Tsai* (2012) Inhibition of Herpes Simplex Virus Type 1 by Thymol-Related Monoterpenoids. *Planta Medica* 78:1636-8 (SCI, 2015 Impact factor: 1.990; PLANT SCIENCES Ranking: 70/209=33.5%; PLANT SCIENCES Ranking: 70/209=33.5%).
 7. Yun-Yu Chen, Meng-Hwan Lee, Chih-Chieh Hsu, **Chia-Li Wei**, Ying-Chieh Tsai* (2012) Methyl cinnamate inhibits adipocyte differentiation via

activation of CaMKK2-AMPK pathway in 3T3-L1 preadipocytes. Journal of Agricultural and Food Chemistry 60:955-63 (SCI, 2015 Impact factor: 2.857; AGRICULTURE, MULTIDISCIPLINARY Ranking: 3/57=5.3%).

8. 魏佳俐、林君穎、陳秀蘭、楊行義、蔡英傑 (2009) 中草藥複方精油 MA3B 緩解經痛之研究。傳統醫學雜誌。20：133-41。
9. 林君穎、陳秀蘭、魏佳俐、許惠惇、蔡英傑 (2009) 複方當歸精油對原發性經痛之緩解的開發研究。傳統醫學雜誌。20：142-6。
10. Chia-Li Wei, Yunn-Bor Yang, Chan-Hui Deng, Wen-Chi Liu, Jyh-Shing Hsu, Yu-Ching Lin, Shwu-Huey Liaw*, and Ying-Chieh Tsai*. (2005) Directed evolution of *Streptomyces clavuligerus* deacetoxycephalosporin C synthase for enhancement of penicillin G expansion. Appl. Environ. Microbiol. 71:8873–80 (SCI, 2011 Impact factor: 3.829, 29/157=18.5%).
11. Jyh-Shing Hsu, Yunn-Bor Yang, Chan-Hui Deng, Chia-Li Wei, Shwu-Huey Liew*, and Ying-Chieh Tsai*. (2004) Screening and directed evolution to create new expandase genes from actinomycetes and enhance substrate specificity to penicillin G. Appl. Environ. Microbiol. 70:6257-6263 (SCI, 2011 Impact factor: 3.829, 29/157=18.5%).
12. Chia-Li Wei, Yunn-Bor Yang, Wen-Ching Wang, Wen-Chi Liu, Jyh-Shing Hsu, and Ying-Chieh Tsai*. (2003) Engineering *Streptomyces clavuligerus* deacetoxycephalosporin C synthase for optimal ring expansion activity toward penicillin G. Appl. Environ. Microbiol. 69:2306–2312 (SCI, 2011 Impact factor: 3.829, 29/157=18.5%).
13. Sue Lin-Chao*, Chia-Li Wei, and Yi-Tzu Lin. (1999) RNase E is required for the maturation of ssrA RNA and normal ssrA RNA peptide-tagging activity. Proc Natl Acad Sci USA. 96:12406-12411 (SCI, 2011 Impact factor: 9.681, 3/56=5.4%).
14. Dmitri A. Bessarab, Vladimir R. Kaberdin, Chia-Li Wei, Gunn-Guang Liou, and Sue Lin-Chao*. (1998) RNA components of Escherichia coli degradosome: evidence for rRNA decay. Proc Natl Acad Sci USA. 95:3157-3161 (SCI, 2011 Impact factor: 9.681, 3/56=5.4%).
15. Andras Miczak, Vladimir R. Kaberdin, Chia-Li Wei, and Sue Lin-Chao*. (1996) Proteins associated with RNase E in a multicomponent ribonucleolytic complex. Proc Natl Acad Sci USA. 93:3865-3869 (SCI, 2011 Impact factor: 9.681, 3/56=5.4%).

研究成果：專利

1. 魏佳俐、王榆婷、李宗益、黃雅晨、鄭博任. (May 2019) 乳酸菌、其組合物及其用途。中華民國專利。申請號 108115426。

2. **Chia-Li Wei**, Yu-Ting Wang, Tsung-Yi Li, Ya-Chen Huang and Po-Jen Cheng. (May 2019) Lactic acid bacteria, composition, and uses thereof. In U.S. patent Application number 16402253.
3. **Chia-Li Wei**, Meng-Hwan Lee, Chun-Ying Lin, Jay Hua, Ying-Chieh Tsai. (April 2009) Composition and method for uterine relaxing. United States Patent No. 7514106.
4. 林君穎、**魏佳俐**、蔡英傑 (2006年4月) 動物實驗裝置。中華民國專利。新型第 M298421 號。
5. 楊運博、**魏佳俐**、蔡英傑、許志行 (2005年4月) 突變的青黴素擴環酶以及用其製備 7-ADCA 的方法。中華民國專利。證書號數：I230737。
6. Yunn-Bor Yang, **Chia-Li Wei**, Jyh-Shing Hsu, and Ying-Chieh Tsai. (June 2005) Mutated penicillin expandase and process for preparing 7-ADCA using the same. United States Patent No. 6905854.
7. Yunn-Bor Yang, **Chia-Li Wei**, Jyh-Shing Hsu, and Ying-Chieh Tsai. (March 2004) Mutated penicillin expandases. United States Patent No. 6699699.