

2021-2022 academic year Student Outcomes

| | Student | Professor | Subject |
|---|--|-------------------------|--|
| 1 | Cheng-Yang Tsai, Hong-Lin Cheng | Ji-Yuan Liang, Ph.D. | Effect of methionic acid on light reaction of Flavin mononucleotide |
| 2 | Jo-Chu Chen, Ching-Fang Lee, Wen-Ting Ye, Cheng-Da Xie | Ji-Yuan Liang, Ph.D. | Effects of Luminol Luminescence Reaction on Flavin Mononucleotides |
| 3 | Chih-Ming Liang | Ji-Yuan Liang, Ph.D. | Enterprise Internship in the Department of Biotechnology of Mingchuan University-OPEN STONE Technology Production Department |
| 4 | Xin-Yu Lee | Ji-Yuan Liang, Ph.D. | Enterprise Internship in the Department of Biotechnology of Mingchuan University-OPEN STONE Technology Production Department |
| 5 | Hsing-Ju kuo | Ji-Yuan Liang, Ph.D. | Enterprise Internship in the Department of Biotechnology of Mingchuan University-OPEN STONE Technology Production Department Phylogeny Tree |
| 6 | Yan-Ni Lee, Chi-Ju Yao | Shwu-Fen Pan, Ph.D. | Subcloning and activity analysis of extracellular protease gene of <i>Pseudomonas aeruginosa</i> |
| 7 | Liang-Yu Hou, Min-Hsuan Tsai | Shwu-Fen Pan, Ph.D. | To explore the effect of low-level laser therapy on the proliferation of HeLa cells |
| 8 | Yi Hao Huang, Sheng Yu Lin, Yang Zhi Hsu, Yu Kai Liu, Zhong You Ye | Shwu-Fen Pan, Ph.D. | Study of the cleaning and antibacterial ability of <i>Saponaria officinalis</i> |

| | | | |
|----|---------------------------|--|--|
| 9 | Hsiao Yu | Liang-Yu Chen, Ph.D. | Mass Spectrometric Analysis of Volatile Aroma Components in Tea |
| 10 | Bo-Yu Zeng | Liang-Yu Chen, Ph.D. | Using Quantitative Approach to Explore the Flavor Differences of Teas with Sensory Evaluation |
| 11 | Yu-Min Lin | Yu-Chung Chang, Ph.D. | Exploring the function of the N-terminal domain of Salmonella type III secretion system protein SpvB |
| 12 | Ying-Jhen Ding | Yu-Chung Chang, Ph.D./Hui-Chung Wu, Ph.D. | Using TTSS structural protein PrgI as a vaccine carrier platform to express PDCoV-N protein |
| 13 | Pao-Yueh Chang | Yu-Chung Chang, Ph.D. | Development of a subunit vaccine containing Salmonella fimbrial adhesin protein BcfD |
| 14 | Wei-Hsuan Huang | Yu-Chung Chang, Ph.D. | Exploring the Function of the Chaperon-Usher Fimbria Bcf Adhesin of Salmonella Typhimurium |
| 15 | Bo-Yuan Chen | Yu-Chung Chang, Ph.D. | The effect of Salmonella CU fimbriae chaperone protein BcfG on fimbriae assembly |
| 16 | Meng-An Hsiao | Yu-Chung Chang, Ph.D. | Exploring the Function of Porcine Deltacoronavirus Nonstructural Protein 6 |
| 17 | Hua-Jing Tseng | Shu-Ling Chen, Ph.D. | The effect of anthocyanins on the human body |
| 18 | Zi-Jie Lee | Jeu-Ming P.Yuann, Ph.D. | Enterprise Internship in the Department of Biotechnology of Mingchuan University- GPAPE KING BIO Ltd. |
| 19 | Shi-Xian Yang, Jun Liu | Chi-Ming Chiu, Ph.D. | Evaluation of antioxidant and apoptosis gene induced by UV irradiated in both HeLa and 293T cell lines |

| | | | |
|----|--|--------------------------|---|
| 20 | Li-Chin Tseng, Chih-Ying Liu, Pin-Xiu Zhuo | Chi-Ming Chiu, Ph.D. | Efficacy analysis of traditional medicinal herbs in the modulation of fatty acid cell accumulation in liver HepG2 cell line |
| 21 | Yi-Shan Chiu, Hsin-Yu Liu, Chin-Shun Cheng, Yen-Chen Pan | Chi-Ming Chiu, Ph.D. | Evaluation of fish eye scleral thickness measurements via physically or chemically induced myopia treatments in zebrafish |
| 22 | Yu-Hsuan Tung, Tzu-Chuan Hsiao | Yi-Sheng Chen, Ph.D. | Screening for the bacteriocin-producing lactic acid bacteria from the <i>Eleutheronema rhadinum</i> |
| 23 | Yun-Hsuan Chien, Yu-Chi Liu | Yi-Sheng Chen, Ph.D. | Purification and identification of bacteriocin produced by lactic acid bacteria isolated from <i>Mentha</i> |
| 24 | Yi Chen Chiu, Chi Hua Huang, Pin Hui Chiang | Yi-Sheng Chen, Ph.D. | Isolation and identification of the emblem of oocyst cancer tissue |
| 25 | Shih Han Tang, Shu Ting Tsai | Yi-Sheng Chen, Ph.D. | Antibacterial activity of bacteriocins against a variety of clinical pathogenic bacteria |
| 26 | Jhu-Ci Huang, Pei-Ju Jao, Wen- Chung Sung, Hui- Jie Luo | Chung-Ming Lin, Ph.D. | The Effect of <i>Clinacanthus nutans</i> Methanol Extract and Water Extract on WiDr Colorectal Cancer Cells |
| 27 | Yi-Cheng Chan, Cheng-Yu Yu | Chung-Ming Lin, Ph.D. | The effect of <i>Clinacanthus nutans</i> methanol and water extracts on HeLa cervical cancer cells |
| 28 | Yu-Yu Lin, Tzu- Chieh Chen, Chia-Yin Yeh | Chung-Ming Lin, Ph.D. | Anti-cancer Mechanism of Curcumin on HT-1080 Fibrosarcoma Cells |
| 29 | Yu-Ru Zhang, Ting-Yu Kang | Han-Tso Lin, Ph.D. | The early warning system of the outbreak of root rot diseases in aquaponics system |

| | | | |
|----|--|-------------------------------|--|
| 30 | Shao-Wei Huang, Chen-Wei Chiu, Jhih-Fong Jhang | Chih-Ming Chiang, Ph.D. | Antioxidative activity and application analysis of saponaria officinails |
| 31 | Yen-Tso Liu, Shuo-Yan Zhou, Wen-Han Zhang | Chih-Ming Chiang, Ph.D. | Antioxidative properties and application analysis of Nepeta cataria |
| 32 | Min-Hsuan Wu, Yun-Teng Tsai | Chih-Ming Chiang, Ph.D. | Analysis and application of useful components of Tropaeolum majus |
| 33 | Yu-Chieh Hung | Chih-Ming Chiang, Ph.D. | signal transmission pathway of Gynura divaricate subsp in inhibiting the growth of cancer cells |
| 34 | Wei-Cheng Liao | Chih-Ming Chiang, Ph.D. | Anti-cancer effect analysis using extraction of Gynura divaricata subsp. Formosana |
| 35 | Mao-Cheng Wang, Yi-Rui Lin, Tzu-Yu Chen | Chih-Ming Chiang,Ph.D. | Antioxidant Analysis of Beer Components |
| 36 | Yun-Hsuan Huang, Pei-Yu Heng | Chih-Ming Chiang, Ph.D. | Supercritical Fluid Extraction and Analysis of Functional Components of Armillaria mellea |
| 37 | Jie-Fang Cheng, Yan-Wen Zhan | Chih-Ming Chiang, Ph.D. | Determination of Polyphenols and DPPH in Green tea and Mentha |
| 38 | Yun-Tung Chiu | Chih-Ming Chiang, Ph.D. | Effects of blue light irradiation on solid- state culture products and antioxidant activity of Armillaria mellea |