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專長領域

秀麗隱桿線蟲 (*C. elegans*), 蠶豆症(Favism), 代謝體學 (Metabolomics), 分子醫學診斷 (Molecular diagnostic), 自由基生物醫學 (Redox Biology & Medicine), 細菌抗藥性 (Bacterial drug resistance)

學術期刊論文 (Selected Papers)

1. Cheng-Yeu Wu, Scott Davis, Neekita Saudagar, Shrey Shah , William Zhao, Arnold Stern, Jan Martel, David Ojcius, and Hung-Chi Yang (2024, Jun). *Caenorhabditis elegans* as a Convenient Animal Model for Microbiome Studies. *International Journal of Molecular Sciences*, 25, 6670.
2. Yu-Tze Horng, Novaria Sari Dewi Panjaitan, Yi-Jhen Tsai, Pin-Wei Su, Hung-Chi Yang, Po-Chi Soo (2023, Aug). The role of EII complex in the bacterial responses to the glucose-survey in clinical *Klebsiella pneumoniae* isolates. *PLoS One* .
3. Pei-Yun Lin, Shang-Yih Chan, Arnold Stern, Po-Hsiang Chen, Hung-Chi Yang (2023, Feb). Epidemiological profiles and pathogenicity of *Vancomycin-resistant Enterococcus faecium* clinical isolates in Taiwan. *PeerJ*.
4. Wan-Hua Yang, Po-Hsiang Chen, Hung-Hsin Chang, Hong Luen Kwok, Arnold Stern, Po-ChiSoo, Jiun-Han Chen, Hung-Chi Yang (2023, Jan). Impaired immune response and barrier function in GSPD-1-deficient *C. elegans* infected with *Klebsiella pneumoniae*. *Current Research in Microbial Sciences*, 4, 100181.
5. Pei-Yun Lin, Arnold Stern, Hsin-Hsin Peng, Jiun-Han Chen and Hung-Chi Yang (2022, Nov). Redox and Metabolic Regulation of Intestinal Barrier Function and Associated Disorders. *International*

- Journal of Molecular Sciences , 2022, 23, 14463. (SCI).
6. Po-Hsiang Chen, Wen-Ye Tjong, Hung-Chi Yang, Hui-Ya Liu, Arnold Stern, Daniel Tsun-Yee Chiu (2022, Feb). Glucose-6-Phosphate Dehydrogenase, Redox Homeostasis and Embryogenesis. International Journal of Molecular Sciences. (SCI).
 7. Yu-Tze Horng, Novaria Sari Dewi Panjaitan, Hui-Ju Chang, Yu-Hong Wei, Chih-Ching Chien, Hung-Chi Yang, Heng-Yuan Chang, Po-Chi Soo (2021, Nov). A protein containing the DUF1471 domain regulates biofilm formation and capsule production in *Klebsiella pneumoniae*. Journal of Microbiology, Immunology and Infection.
 8. Pei-Yun Lin, Hio-Cheng Lau, Arnold Stern, Qian-Hong Ye, Kan-Jen Tsai, Hung-Chi Yang (2021, Jul). Antibiotic Resistance in Bacteria: Mechanisms and Antibiotic Susceptibility Testing Methodologies. Journal of Biomedical and Laboratory Sciences.
 9. Hung-Chi Yang, Arnold Stern, Daniel Tsun-Yee Chiu (2021, Jun). G6PD: A hub for metabolic reprogramming and redox signaling in cancer. Biomed journal. (SCI).
 10. Hung-Chi Yang, Tian-Hsiang Ma, Wen-Ye Tjong, Arnold Stern, Daniel Tsun-Yee Chiu (2021, Apr). G6PD deficiency, redox homeostasis, and viral infections: implications for SARS-CoV-2 (COVID-19). Free Radical Research. (SCI).
 11. Novaria Sari Dewi Panjaitan, Yu-Tze Horng, Chih-Ching Chien, Hung-Chi Yang, Ren-In You, Po-Chi Soo (2021, Feb). The PTS Components in *Klebsiella pneumoniae* Affect Bacterial Capsular Polysaccharide Production and Macrophage Phagocytosis Resistance. Microorganisms . (SCI).
 12. Pei-Yun Lin, Wai-Wa Lai, Arnold Stern, Kan-Jen Tsai, Qian-Hong Ye, Hung-Chi Yang (2020, Dec). The Gut Microbiota in Human Health and Disease: From Brain-Gut Axis Testing Methodologies to Therapeutic Approaches. Journal of Biomedical and Laboratory Sciences.
 13. Hung-Chi Yang, Hsiang Yu, Tian-Hsiang Ma, Wen-Ye Tjong, Arnold Stern, Daniel Tsun-Yee Chiu (2020, Nov). tert-Butyl Hydroperoxide (tBHP)-Induced Lipid Peroxidation and Embryonic Defects Resemble Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency in *C. elegans*. International Journal of Molecular Sciences, 2020, 21, 8688. (SCI).
 14. Hsu-Feng Lu, Bo-Kuan Wu, Yi-Wei Huang, Ming-Zhe Lee, Ming-Fang Li, Hsu-Jung Ho, Hung-Chi Yang, Tsuey-Ching Yang (2020, Oct). PhoPQ two component regulatory system plays a global regulatory role in antibiotic susceptibility, physiology, stress adaptation, and virulence in *Stenotrophomonas maltophilia*. BMC Microbiology, (2020) 20:312. (SCI).
 15. Jan Martel, Cheng-Yeu Wu, Hsin-Hsin Peng, Yun-Fei Ko, Hung-Chi Yang, John D. Young and David M. Ojcius (2020, Sep). Plant and fungal products that extend lifespan in *Caenorhabditis elegans*. Microbial cell. (SCI).
 16. Pei-yun Lin, Arnold Stern, Hung-chi Yang (2020, Mar). Dissecting anti-cancer and anti-aging mechanisms via the *C. elegans*-microbiota-drug interaction. Journal of Biomedical and Laboratory Sciences. (SCI).
 17. Hung-Chi Yang, Yi-Hsuan Wu, Wei-Chen Yen, Hui-Ya Liu, Tsong-Long Hwang, Arnold Stern and Daniel Tsun-Yee Chiu (2019, Sep). The Redox Role of G6PD in Cell Growth, Cell Death, and Cancer. Cells, 2019, 8, 1055. (SCI).
 18. Wan-Hua Yang, Chia-Yi Chen, Kun-Liang Wang, Hong Luen Kwok, Arnold Stern, Szecheng J. Lo,

Hung-Chi Yang (2019, Aug). Reflex and habituation behavior of *Caenorhabditis elegans* assessed by a mechanical vibration system and image analysis. *Journal of Neuroscience Methods*, 328 (2019) 108415.(SCI).

19. Hung-Chi Yang, Hsiang Yu, You-Cheng Liu, Tzu-Ling Chen, Arnold Stern, Szecheng J. Lo and Daniel Tsun-Yee Chiu (2019, Jan). IDH-1 deficiency induces growth defects and metabolic alterations in GSPD-1-deficient *Caenorhabditis elegans*. *Journal of Molecular Medicine*. (SCI).