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Current Positions Chair Professor, China Medical University
Superintendent, China Medical University Children's Hospital
Director, Center of Allergy Immunology and Microbiome (AIM)

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Education

1993-1996 DOCTOR OF PHILOSOPHY (D. Phil.)

Medical Research Council, Immunochemistry Unit, Department of Biochemistry, St. Cross College, University of Oxford, United Kingdom

1977-1984 GRADUATION: Bachelor of Medicine.

China Medical University, Taichung, Taiwan

Expertise

Allergic disorders, Mucosal Immunology, Microbiome, Molecular biology
Animal Models (allergic rhinitis, asthma, COPD, atopic dermatitis, food allergy, CKD)

Research Interests

The goal of Allergy Immunology and Microbiome (AIM) center is to investigate the interaction between microbiome and immune system in mucosal inflammation disorders. Our research interests are described as following.

Precision microbiome profiling: Allergy and mucosal inflammation disorders/Microbiome clustering and diseases profiling/Multi-omics integration and AI Deep learning

Microbiome signature for drug response: Human Microbiome and drug response/Human Microbiome and TCM interaction

Biomarker, target and LBT discovery: Diseases Dysbiosis index and scores/Identify candidate for Live Bacterial Therapeutics (LBT) for microbiome-based Therapy/Microbial metabolites mining as novel drug candidate

Selected Grants:

1. The role of trained immunity in macrophages of virus-induced allergic asthma. MOST 110-2314-B-039 - 056 -MY3 (2021/08/01-2024/07/31)
2. Comparative study of vitamin D and its receptor gene polymorphism in Lithuanian, Latvian, and Taiwanese children and adults with atopic dermatitis and asthma. MOST 109-2923-B-006-002-MY3 (2020/01/01-2022/12/31)
3. The immunomodulation effect of *Lactobacillus gasseri* LGP40 in allergic diseases. MOST 107-2314-B-006 -046 -MY3 (2018/08/01-2021/07/31)

Selected Publications

1. Lawrence Shih-Hsin Wu, **Jiu-Yao Wang***. 2021. Diseases tolerance to infection: An immune defense strategy by targeting the mitoribosome. *Cell Mol Immunol* 18(7):1626-1627. (IF:11.530)
2. **Jiu-Yao Wang***, Pawankar R, Tsai HJ, Wu LSH, Kuo WH. 2021. COVID-19 and asthma, the good or the bad? *Allergy* 76; 565-567. (IF: 13.146)
3. Pei-Chi Chen, Yu-Ting Shao, Miao-Hsi Hsieh, Hui-Fang Kao, Wen-Shuo Kuo, Shih-Min Wang, Shun-Hua Chen, Lawrence Shih Hsin Wu, Hui-Ju Tsai and **Jiu-Yao Wang***. 2021. Early-life EV-A71 infection augments allergen-induced airway inflammation in asthma through trained immunity of macrophages. *Cell Mol Immunol* 18:472–483 (IF:11.530)
4. Wan-Ru Wang, Nai-Tzu Chen, Nai-Yun Hsu, I-Ying Kuo, Hsin-Wen Chang, **Jiu-Yao Wang**, Huey-Jen Su. 2021. Associations among phthalate exposure, DNA methylation of TSLP, and childhood allergy. *Clin Epigenetics* 13(1):76. (IF: 6.551)
5. Xiao-Dong Bi, Bao-Zhen Lu, Xin-Xin Pan, Sha Liu, **Jiu-Yao Wang***. 2021. Adjunct therapy with probiotics for chronic urticaria in children: Randomized placebo-controlled trial. *Allergy Asthma Clin Immunol* 17:39 (IF: 3.406)
6. Wei-Yu Chen, Ching-Wei Lin, Ju-Lee, Po-Sung Chen, Hui-Ju Tsai, **Jiu-Yao Wang***. 2021. Decreasing ten-year (2008-2018) trends of the prevalence of childhood asthma and air pollution in southern Taiwan. *World Allergy Organ J* 14:100538. (IF: 4.084)
7. Miao-Hsi Hsieh, Nazar Beirag, Valarmathy Murugaiah, Yu-Chi Chou, Wen-Shuo Kuo, Hui Fang Kao, Taruna Madan, Uday Kishore, **Jiu-Yao Wang***. 2021. Human surfactant protein D binds spike protein and acts as an entry inhibitor of SARS-CoV-2 pseudotyped viral particles. *Front Immunol* 12:641360. doi: 10.3389/fimmu.2021.641360 (IF: 7.561)
8. I-Kuan Wang, Tzung-Hai Yen, Pei-Shan Hsieh, Hsieh-Hsun Ho, Yi-Wei Kuo, Yen-Yu Huang, Yu-Lun Kuo, Chi-Yuan Li, Hung-Chih Lin, **Jiu-Yao Wang***. 2021 The effect of probiotic combinations in experimental mouse model and clinical patients of chronic kidney disease. *Front Nutri* 8:661794 doi: 10.3389/fnut.2021.661794 (IF: 6.576)
9. Tsung-Chieh Yao, **Jiu-Yao Wang**, Sheng-Mao Chang, Yen-Chen Chang, Yi-Fen Tsai, Ann Wu, Jing-Long Huang, Hui-Ju Tsai. 2021. Association of oral steroid bursts with severe adverse events in children. *JAMA Pediatr* 175(7):723-729. (IF: 16.193)
10. Hui Fang Kao, Yu-Chin Wang, Hsiu-Ying Tseng, Lawrence Shih Hsin Wu, Hui-Ju Tsai, Miao-Hsi Hsieh, Pei-Chi Chen, Wen-Shuo Kuo, Li-Fan Liu, Zhi-Gang Liu and **Jiu-Yao Wang***. 2020. Goat's milk feeding enhances innate and adaptive immunities and alleviates allergen-induced airway inflammation in offspring mice *Front Immunol* 11:184. (IF: 7.561)

Selected Patents

1. **Treating allergy with detoxified E. Coli heat-labile enterotoxin.** (EP2550013A1;WO 2011/119174A1; US8241608B2; US20110236424A1) Yu-Shen Hsu, Jiu-yao Wang
2. **Pharmaceutic composition and application of detoxified recombinant Escherichia Coli Heat-Labile enterotoxin.** (TAIWAN TWI382088) Yu-Shen Hsu, Jiu-yao Wang
3. **Dermatophagoid pteronyssinus (Der p1) antigen epitope and anti-Der p 1 antibody.** (US20130302338A1) Jiu-Yao Wang
4. **Method of detecting genetic disorders.** (US20040132024A1; TW200412372) Lawrence Wu, Lichih Huang, Cherry Lin, Julia Yu, Jui-Lin Chen, Jiu-Yao Wang
5. **Microarray chip for detection of immunoglobulin.** (US20060008895A1) Hsiu-Mei Chen, Jiu-Yao Wang, Li-Chuan Chen, Sen-Lin Lo, Hsiu-Wen Lee
6. **Nasal spray.** (TW201006511)