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Current Positions Professor Department of Microbiology and Immunology,
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Education

Ph.D, College of Medicine, Graduate Institute of Toxicology, National Taiwan University
Postdoc fellowship, Graduate Institute of Clinical Medicine, National Taiwan University
Visiting scholarship, University of California Davis

Expertise

Immunopharmacology
Respiratory Immunology
Immunotoxicology

Research Interests

The research topic focuses on the therapeutic and molecular mechanisms of respiratory inflammatory diseases.
Therapeutic effects and mechanisms of novel target in steroid-resistant asthma
Molecular mechanisms of systemic sclerosis associated with interstitial lung disease

Selected Grants:

1. Novel Aryl hydrocarbon receptor function in airway epithelial cells damage in allergic asthma (MOST, 2014~2018)
2. Targeting MARCKS phosphorylation site domain on allergen-induced airway immunodysregulation of IL-33 release and type II innate lymphoid cells activation (MOST, 2017-2018)
3. A novel role of recombinant articulatin B chain (rATB) protein in cancer immunotherapy (2018-2021)

Selected Publications

1. Yu-Di Chang, Ching-Hao Li, Chi-Hao Tsai, Yu-Wen Cheng, Jaw-Jou Kang*, Chen-Chen Lee*. Aryl hydrocarbon receptor deficiency enhanced airway inflammation and remodeling in a murine chronic asthma model, FASEB JOURNAL, 2020 Sep, Epub, SCI
2. Chien-Neng Wang, Yu-Chao Lin, Bo-Chun Chang, Ching-Hsien Chen, Reen Wu, Chen-Chen Lee*. Targeting the phosphorylation site of myristoylated alanine-rich C kinase substrate alleviates symptoms of steroid-resistant like asthma in a murine mode, BRITISH JOURNAL OF PHARMACOLOGY, 2019 Feb, Epub, SCI
3. Yueh-Lun Lee, Ling-Heng Hsu, Yueh-Hsiung Kuo*, Chen-Chen Lee*. Caffeic amide derivatives inhibit allergen-induced bone marrow-derived dendritic cells maturation, Pharmacological Reports, 2019 Apr, 71(2):194-200, SCI
4. Chien-Hui Hung, Chien-Neng Wang, Huei-Hsuan Cheng, Jiunn-Wang Liao, Yi-Ting Chen, Ya-Wen Chao, Jia Liang Jiang, Chen-Chen Lee*, Baicalin Ameliorates Imiquimod-Induced 5.0Psoriasis-Like Inflammation in Mice, PLANTA MEDICA, 2018 Oct, 84(15):1110-1117, SCI

5. Chen-Chen Lee, Wen-Hao Yang, Ching-Hao Li, Yu-Wen Cheng, Chi-Hao Tsai, Jaw-Jou Kang*. Ligand independent aryl hydrocarbon receptor inhibits lung cancer cell invasion by degradation of Smad4 , CANCER LETTERS , 2016 Jul , 376(2):211-217 , SCI

Selected Patents

1. SUPPRESSION OF ALLERGIC LUNG INFLAMMATION AND HYPERREACTIVITY , USA , US10314889B2 , 2019.1.11 ~ 2034.12.19
2. METHOD FOR INHIBITING PRODUCTION OF CYTOKINES OF T HELPER CELL TYPE II AND/OR INHIBITING PRODUCTION OF CHEMOKINES USING BRAZILIN , USA , 8,796,327 , 2014.8.5 ~ 2032.4.22