

Photo



**Name**

**Chin-An Yang**

**Current Positions**

1. Director of Laboratory Medicine and Medical Education, China Medical University Hsinchu Hospital
2. Attending Physician, Division of Pediatric Allergy, Immunology and Rheumatology, China Medical University Hsinchu Hospital
3. Associate Professor, College of Medicine, China Medical University, Taichung, Taiwan

**Telephone**

+886-3-5580558~1426

**E-mail**

yangginzn81@mail.cmu.edu.tw

**E-Portfolio Website**

[https://webap.cmu.edu.tw/TchEportfolio/journal\\_1/yangginzn81](https://webap.cmu.edu.tw/TchEportfolio/journal_1/yangginzn81)

**Personal Website**

## Education

**MD** Kaohsiung Medical University, Kaohsiung, Taiwan

**PhD** Humboldt Universität zu Berlin, Berlin, Germany

## Expertise

Immunology

Multi-omics analysis

Precision medicine

Laboratory medicine

Pediatrics

## Research Interests

My research focuses on complex immune diseases and cancers using multi-cohort and multi-omics approaches. The aims of our studies are to understand the underlying mechanisms, to identify diagnostic biomarkers, and to build up prognostication models. Another part of my research is clinical laboratory automation and innovation. My lab is currently working on the investigation of mechanisms underlying stress-related autoinflammatory diseases and tumor-immune interactions.

## Selected Grants:

Investigation of the role of ZNF334 in cold-induced inflammation and diseases (MOST, 20210801~20220731)

Investigation of genes synthetically dosage lethal to RNASEH2A over-expression in cancers (MOST, 20170801~20200731)

Establishment of a disease prognostication prediction model using the expression signature of long non-coding RNAs (以長非編碼 RNA 表現組合建立疾病預後預測模式, CMUHCH, 20201101~20211031)

## Selected Publications

1. Chin-An Yang, Ya-Ling Huang, Bor-Luen Chiang (2021, Jun). Innate immune response analysis in COVID-19 and Kawasaki disease reveals MIS-C predictors. Journal of the Formosan Medical Association, 19:S0929-6646(21)00287-4
2. Chin-An Yang, Bor-Luen Chiang (2020, Nov). Inflammasomes and Childhood Autoimmune Diseases: A Review of Current Knowledge. Clinical Reviews in Allergy & Immunology, 25:1-15.
3. Yang CA, Li JP, Yen JC, Lai IL, Ho YC, Chen YC, Lan JL, Chang JG (2018, Sep). lncRNA NTT/PBOV1 Axis Promotes Monocyte Differentiation and Is Elevated in Rheumatoid Arthritis. International Journal of Molecular Sciences, 2018 Sep 18;19(9).pii: E2806.
4. Yang CA, Bauer S, Ho YC, Sotzny F, Chang JG, Scheibenbogen C (2018, Aug). The expression signature of very long non-coding RNA in myalgic encephalomyelitis/chronic fatigue syndrome. Journal of Transnational Medicine, 2018 Aug 17;16(1):231.
5. Yang CA, Chou IC, Cho DY, Lin CY, Huang HY, Ho YC, Liu TY, Li YH, Chang JG. (2018, May). Whole exome sequencing in Dandy-Walker variant with intellectual disability reveals an activating CIP2A mutation as novel genetic cause. Neurogenetics, 2018 Aug;19(3):157-163.

6. Yang CA, Huang HY, Lin CL, Chang JG. (2018, May). G6PD as a predictive marker for glioma risk, prognosis and chemosensitivity. *Journal of NeuroOncology*, 2018 Sep;139(3):661-670.
7. Yang CA, Huang HY, Yen JC, and Chang JG. (2018, May). Prognostic value of RNASEH2A-, CDK1-, and CD151-related pathway gene profiling for kidney cancers.. *International Journal of Molecular Sciences* , 2018 May 28;19(6).
8. Chin-An Yang, Chao Liang, Chia-Li Lin, Chiung-Tzu Hsiao, Ching-Tien Peng, Hung-Chih Lin, Jan-Gowth Chang (2017, Sep). Impact of *Enterobius vermicularis* infection and mebendazole treatment on intestinal microbiota and host immune response. *Plos Neglected Tropical Diseases*, 2017 Sep 25;11(9):e0005963

## **Selected Patents**

- 1.