



Name Gregory J Tsay
Current Positions Department of Internal Medicine Professor

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Education

MD, Chung-Shan Medical University, Taichung, Taiwan
PhD, Tokyo Medical University, Japan

Expertise

Autoimmune disease ∙
Rheumatology ∙
Basic medical science ∙
Clinical Medicine

Research Interests:

Research in the Tsay lab mainly focuses on the autoimmune rheumatic diseases (AIRD), especially in the pathogenesis of AIRD. Current interest is centered on the relationship of periodontitis and rheumatoid arthritis, efferocytosis in AIRD, the pathogenesis of psoriasis, and identify new drugs for the therapy of AIRD.

Selected Grants:

1. To Study of the Relationship between Rheumatoid Arthritis and Periodontitis. MOST104-2314-B039-045(10408 ~ 10507)
2. Investigating the Immune Response to Hemagglutinin Domain of Gingipain Ofinvestigating the Immune Response to Gingipain in Periodontitis and Rheumatoid Arthritis. MOST105-2314-B039-047(10508 ~ 10607)
3. The Role of P2x7 Receptor, Transglutaminase-2, and Calcium in Psoriasis.(I) MOST108-2314-B039-019(10808 ~ 10907)
4. The Role of Efferocytosis in Developing Anti-Inflammatory Drugs, Obesity, and Psoriasis. MOST107-2314-B039-050(10708 ~ 10807)
5. Study the Epitopes by Anti-P.Gingivalis Antibodies in Patients with Rheumatoid Arthritis and Periodontitis and Immunization with Hemagglutinin Domains of P.Gingivalis in Cia Animal Model MOST106-2314-B039-040 (10608 ~ 10707)
6. The Role of P2x7 Receptor, Transglutaminase-2, and Calcium in Psoriasis.(II) MOST109-2314-B039-052 (10908 ~ 11007)
7. 精準性檢驗類風濕性關節炎之診斷套組(I) MOST109-2622-B039-003 (10910 ~ 11007)

Selected Publications

1. Hsin-Yi Peng, Shih-Yao Chen, Shih-Hong Siao, Jinghua Tsai Chang, Ting-Yin Xue, Yi-Hsuan Lee, Ming-Shiou Jan, **Gregory J. Tsay** & Moncef Zouali. Targeting a cysteine protease from a pathobiont alleviates experimental arthritis. *Arthritis Res Ther.* 2020;22(1):114. Published 2020 May 14. doi:10.1186/s13075-020-02205-z **IF=4.103**

2. Yu KH, Chen DY, Chen JH, Chen SY, Chen SM, Cheng TT, Hsieh SC, Hsieh TY, Hsu PF, Kuo CF, Kuo MC, Lam HC, Lee IT, Liang TH, Lin HY, Lin SC, Tsai WP, **Tsay GJ**, Wei JC2, Yang CH, Tsai WC. Management of gout and hyperuricemia: Multidisciplinary consensus in Taiwan. *Int J Rheum Dis*. 2018 Apr;21(4):772-787. **IF=1.98**
3. **Tsay, G. J.** and M. Zouali. The Interplay Between Innate-Like B Cells and Other Cell Types in Autoimmunity. *Front Immunol*. 2018 May 16;9:1064. **IF=4.53**
4. Yi-Ying Wu Chin-Tung Hsieh **Gregory J. Tsay** Jung-Ta Kao Ying-Ming Chiu Dong-Chen Shieh Yi-Ju Lee,2018 : Recruitment of CCR6+ Foxp3+ regulatory gastric infiltrating lymphocytes in Helicobacter pylori gastritis. *Nov 9:e12550*. doi: 10.1111/hel.12550 **IF=4.0**
5. Chung-Ming Huang, Hsuan-Ju Chen, Po-Hao Huang , **Gregory J Tsay** , Joung-Liang Lan, Fung-Chang Sung. Retrospective Cohort Study on Risk of Hearing Loss in Patients with Rheumatoid Arthritis Using Claims Data. *BMJ Open*. 2018 Jan 5;8(1):e018134. doi: 10.1136 **IF=2.496**
6. Zsuzsa Szondy, Ilma Korponay-Szabó, Róbert Király, Zsolt Sarang, **Gregory J. Tsay**. Transglutaminase 2 in human diseases. *BioMedicine* (ISSN 2211-8039) DOI: 10.1051/bmdcn/2017070315 September 2017, Vol. 7, No. 3, Article 15, Pages 1-13
7. Ching-Chyuan SU, Tzu-Rong SU, Ji-Ching LAI, **Gregory-J TSAY**, Hung-Ke LIN. Elevated transglutaminase-2 expression in the epidermis of psoriatic skin and its role in the skin lesion development. *Journal of Dermatology J Dermatol*. 2017 Feb 2. doi: 10.1111/1346-8138.13742. **IF=3.072**
8. Joung-Liang Lan, Chun-Hung Tseng, Jiunn-Horng Chen*, Chi-Fung Cheng, MSce, Wen-Miin Liang, **Gregory J. Tsay**. Reduced risk of all-cancer and solid cancer in Taiwanese patients with rheumatoid arthritis treated with etanercept, a TNF-a inhibitor. *Medicine* (2017) 96:7(e6055) **IF=2.028**