



Caren Yu-Ju Wu

Postdoctoral Scholar, Neurosurgery

Bio

BIO

Caren Yu-Ju Wu, Ph.D., is a postdoctoral researcher at the Department of Neurosurgery.

Dr. Wu is interested in the biology of neuro-inflammation, malignant brain tumors, cancer, and immune cells' metabolism. Dr. Wu is involved in basic, translational, immunological, and clinical research of adults diagnosed with brain cancer and has extensive experience in research projects centered on cell adhesion mechanisms, cell-cell communication, and the interaction between neuronal or glioma cells and the immune system. From 2011-2015, Dr. Wu's research focused on glia cells induced neuroinflammation, neurodegeneration, and the anti-inflammation of novel drugs on glia cells. From 2015 to the present, Dr. Wu's study has focused on examining the metabolic and genomic alterations of immune cells centered on gliomagenesis, and aims to develop an immune-cell-based therapy to manage glioma.

STANFORD ADVISORS

- Michael Lim, Postdoctoral Faculty Sponsor

LINKS

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Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Basic, translational, immunological and clinical research

Publications

PUBLICATIONS

- **Tumor-Associated Microglia Secrete Extracellular ATP to Support Glioblastoma Progression.** *Cancer research*
Wu, C. Y., Chen, Y., Lin, Y. J., Wei, K. C., Chang, K. Y., Feng, L. Y., Chen, K. T., Li, G., Ren, A. L., Nitta, R. T., Wu, J. Y., Cho, K. B., Pant, et al
2024; 84 (23): 4017-4030
- **The CCR6-CCL20 axis promotes regulatory T cell glycolysis and immunosuppression in tumors.** *Cancer immunology research*
Pant, A., Jain, A., Chen, Y., Patel, K., Saleh, L., Tzeng, S., Nitta, R. T., Zhao, L., Wu, C. Y., Bederson, M., Wang, W. L., Bergsneider, B. H., Choi, et al
2024
- **CCR2 and CCR5 co-inhibition modulates immunosuppressive myeloid milieu in glioma and synergizes with anti-PD-1 therapy.** *Oncoimmunology*

- Pant, A., Hwa-Lin Bergsneider, B., Srivastava, S., Kim, T., Jain, A., Bom, S., Shah, P., Kannapadi, N., Patel, K., Choi, J., Cho, K. B., Verma, R., Yu-Ju Wu, et al
2024; 13 (1): 2338965
- **PP2Ac/STRN4 negatively regulates STING-Type I interferon signaling in tumor associated macrophages.** *The Journal of clinical investigation*
Ho, W. S., Mondal, I., Xu, B., Das, O., Sun, R. C., Chiou, P., Cai, X., Tahmasebinia, F., Wu, C. Y., Wu, Z., Matsui, W., Lim, M., Meng, et al
2023
 - **The Role of Myeloid Cells in GBM Immunosuppression.** *Frontiers in immunology*
Lin, Y., Wu, C. Y., Wu, J. Y., Lim, M.
2022; 13: 887781
 - **CCL5 of glioma-associated microglia/macrophages regulates glioma migration and invasion via calcium-dependent matrix metalloproteinase 2** *NEURO-ONCOLOGY*
Wu, C., Chen, C., Lin, C., Feng, L., Lin, Y., Wei, K., Huang, C., Fang, J., Chen, P.
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 - **Functional Change of Effector Tumor-Infiltrating CCR5(+)CD38(+)HLA-DR(+)CD8(+) T Cells in Glioma Microenvironment** *FRONTIERS IN IMMUNOLOGY*
Chen, P., Wu, C., Fang, J., Chen, H., Feng, L., Huang, C., Wei, K., Fang, J., Lin, C.
2019; 10: 2395
 - **Naringenin Suppresses Neuroinflammatory Responses Through Inducing Suppressor of Cytokine Signaling 3 Expression** *MOLECULAR NEUROBIOLOGY*
Wu, L., Lin, C., Lin, H., Liu, Y., Wu, C., Tsai, C., Chang, P., Yeh, W., Lu, D.
2016; 53 (2): 1080-1091
 - **Regulatory Effects of Caffeic Acid Phenethyl Ester on Neuroinflammation in Microglial Cells** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*
Tsai, C., Kuo, Y., Yeh, W., Wu, C., Lin, H., Lai, S., Liu, Y., Wu, L., Lu, J., Lu, D.
2015; 16 (3): 5572-5589
 - **Palmitic acid-induced lipotoxicity and protection by (+)-catechin in rat cortical astrocytes** *PHARMACOLOGICAL REPORTS*
Wong, K., Wu, Y., Cheng, K., Chan, P., Cheung, C., Lu, D., Su, T., Liu, Z., Leung, Y.
2014; 66 (6): 1106-1113
 - **Exogenous endothelin-1 induces cell migration and matrix metalloproteinase expression in U251 human glioblastoma multiforme** *JOURNAL OF NEURO-ONCOLOGY*
Hsieh, W., Yeh, W., Cheng, R., Lin, C., Tsai, C., Huang, B., Wu, C., Lin, H., Huang, S., Lu, D.
2014; 118 (2): 257-269
 - **Anti-Neuroinflammatory Effects of the Calcium Channel Blocker Nifedipine on Microglial Cells: Implications for Neuroprotection** *PLOS ONE*
Huang, B., Chang, P., Yeh, W., Lee, C., Tsai, C., Lin, C., Lin, H., Liu, Y., Wu, C., Ko, P., Huang, S., Hsu, H., Lu, et al
2014; 9 (3): e91167