

Wei Jiang

Instructor, Pediatrics - Human Gene Therapy

Bio

ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Human Gene Therapy

Publications

PUBLICATIONS

- **In vivo clonal expansion and phenotypes of hypocretin-specific CD4+ T cells in narcolepsy patients and controls.** *Nature communications*
Jiang, W., Birtley, J. R., Hung, S., Wang, W., Chiou, S., Macaubas, C., Kornum, B., Tian, L., Huang, H., Adler, L., Weaver, G., Lu, L., Ilstad-Minnihan, et al
2019; 10 (1): 5247
- **Synergy between B cell receptor/antigen uptake and MHCII peptide editing relies on HLA-DO tuning.** *Scientific reports*
Jiang, W., Adler, L. N., Macmillan, H., Mellins, E. D.
2019; 9 (1): 13877
- **Human Intestinal Enteroids Model MHC-II in the Gut Epithelium** *FRONTIERS IN IMMUNOLOGY*
Wosen, J. E., Ilstad-Minnihan, A., Co, J. Y., Jiang, W., Mukhopadhyay, D., Fernandez-Becker, N. Q., Kuo, C. J., Amieva, M. R., Mellins, E. D.
2019; 10
- **Epitope Selection for HLA-DQ2 Presentation: Implications for Celiac Disease and Viral Defense** *JOURNAL OF IMMUNOLOGY*
Hung, S., Hou, T., Jiang, W., Wang, N., Qiao, S., Chow, I., Liu, X., van der Burg, S. H., Koelle, D. M., Kwok, W. W., Sollid, L. M., Mellins, E. D.
2019; 202 (9): 2558–69
- **DO:DM tunes antigen presentation in a BCR affinity-dependent manner**
Jiang, W., Adler, L. N., Macmillan, H., Mellins, E.
AMER ASSOC IMMUNOLOGISTS.2018
- **The Other Function: Class II-Restricted Antigen Presentation by B Cells** *FRONTIERS IN IMMUNOLOGY*
Adler, L. N., Jiang, W., Bhamidipati, K., Millican, M., Macaubas, C., Hung, S., Mellins, E. D.
2017; 8
- **Optimized purification strategies for the elimination of non-specific products in the isolation of GAD65-specific monoclonal autoantibodies.** *F1000Research*
Jiang, W., Macmillan, H., Madec, A. M., Mellins, E. D.
2015; 4: 135
- **pH-susceptibility of HLA-DO tunes DO/DM ratios to regulate HLA-DM catalytic activity.** *Scientific reports*
Jiang, W., Strohman, M. J., Somasundaram, S., Ayyangar, S., Hou, T., Wang, N., Mellins, E. D.
2015; 5: 17333-?
- **The MHC Class II Cofactor HLA-DM Interacts with Ig in B Cells.** *Journal of immunology*
Macmillan, H., Strohman, M. J., Ayyangar, S., Jiang, W., Rajasekaran, N., Spura, A., Hessel, A. J., Madec, A., Mellins, E. D.
2014; 193 (6): 2641-2650
- **Susceptibility to HLA-DM Protein Is Determined by a Dynamic Conformation of Major Histocompatibility Complex Class II Molecule Bound with Peptide.** *journal of biological chemistry*
Yin, L., Trenh, P., Guce, A., Wieczorek, M., Lange, S., Sticht, J., Jiang, W., Bylsma, M., Mellins, E. D., Freund, C., Stern, L. J.

2014; 289 (34): 23449-23464

- **Assembly and Architecture of the EBV B Cell Entry Triggering Complex.** *PLoS pathogens*
Sathiyamoorthy, K., Jiang, J., Hu, Y. X., Rowe, C. L., Möhl, B. S., Chen, J., Jiang, W., Mellins, E. D., Longnecker, R., Zhou, Z. H., Jardetzky, T. S.
2014; 10 (8): e1004309
- **HLA-DO acts as a substrate mimic to inhibit HLA-DM by a competitive mechanism** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*
Guce, A. I., Mortimer, S. E., Yoon, T., Painter, C. A., Jiang, W., Mellins, E. D., Stern, L. J.
2013; 20 (1): 90-U118
- **Mapping the HLA-DO/HLA-DM complex by FRET and mutagenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Yoon, T., Macmillan, H., Mortimer, S. E., Jiang, W., Rinderknecht, C. H., Stern, L. J., Mellins, E. D.
2012; 109 (28): 11276-11281
- **On the perils of poor editing: regulation of peptide loading by HLA-DQ and H2-A molecules associated with celiac disease and type 1 diabetes** *EXPERT REVIEWS IN MOLECULAR MEDICINE*
Busch, R., De Riva, A., Hadjinicolaou, A. V., Jiang, W., Hou, T., Mellins, E. D.
2012; 14
- **Engineering Antibodies for Cancer Therapy** *ANNUAL REVIEW OF CHEMICAL AND BIOMOLECULAR ENGINEERING, VOL 2*
Boder, E. T., Jiang, W.
2011; 2: 53-75
- **High-throughput engineering and analysis of peptide binding to class II MHC** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jiang, W., Boder, E. T.
2010; 107 (30): 13258-13263