



Jun Huang

Assistant Professor

Areas of Research Expertise

T-cell immunology, cancer immunology, single-molecule immunoengineering, single-cell systems immunology

Research Overview: Huang Group

The Huang Group conducts basic research and translational studies on lymphocytes using quantitative methods. The researchers focus on T-cell recognition and signaling, the immune regulation of natural killer cells, and single-cell systems immunology.

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Assistant

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Research

Huang's research focuses on the quantitative study of the protective immune function of conventional T cells, the immunosuppressive properties of regulatory T cells, and the cytolytic function of natural killer cells. Developing and utilizing state-of-the-art single-molecule/cell imaging techniques, single-molecule biomechanical assays, and single-cell systems biology methods, Huang's group carries out basic scientific research, focusing on molecular mechanisms and immune function of cells, as well as translational research with the objective of developing immunotherapies for cancer, infectious diseases and autoimmune diseases.

Bio

Huang earned his MS in Chemical Engineering and PhD in Bioengineering at the Georgia Institute of Technology. He conducted postdoctoral research in immunology at Stanford University.

Huang was the recipient of a Young Investigator Award from the Cancer Research Foundation in 2015, and the K99/R00 National Institutes of Health Pathway to Independence Award in 2014.

Huang is a co-author of numerous articles published in *Nature*, *Immunity*, *Nature Immunology*, *Journal of Experimental Medicine*, *Proceedings of the National Academy of Sciences*, and *Immunological Reviews*.