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The laboratory functions as an integrated translational research program with the goal of designing and developing new immunotherapies and immunologic strategies for cancer treatment and prevention. The project is focused on effector and regulatory molecules controlling cancer specific lymphocytes before and during immunotherapy, especially studying a negative immunoregulatory mechanism used for immune evasion in tumor microenvironment.

Ongoing studies involve:
(1) analysis and utilization of newly found costimulatory molecules from the perspective of cancer immunology;
(2) To develop a novel DC immunization strategy to overcome tumor-mediated immunosuppression;
(3) To study the age-related immune defect (Immunosenescence).

SELECTED PEER-REVEIWED PUBLICATIONS

1. **Bin Zhang.** Targeting the stroma by T cells to limit tumor growth. Cancer Research 2008; 68:9570-3 (Invited Review)
2. **Bin Zhang,** Theodore Karrison, Donald A. Rowley, Hans Schreiber. IFN-γ and TNF-dependent bystander eradication of antigen loss variants in established cancers. Journal of Clinical Investigation 2008; 118:1398-1404 (Highlighted in ***SciBX***)
3. **Bin Zhang,** Yi Zhang, Natalie Bowerman, Andrea Schietinger, Yang-Xin Fu, David M. Kranz, Donald A. Rowley and Hans Schreiber. Equilibrium between host and cancer caused by effector T cells killing tumor stroma. Cancer Research 2008; 68:1563-71 (**Cover Feature**, reported in ***BioWorld® Today***)
4. **Bin Zhang**, Natalie Bowerman, Joseph Salama, Hank Schmidt, Michael T. Spiotto, Andrea Schietinger, Ping Yu, Yang-Xin Fu, Ralph R. Weichselbaum, Donald A. Rowley, David M. Kranz and Hans Schreiber. Induced sensitization of tumor stroma leads to eradication of established cancer by T cells. Journal of Experimental Medicine 2007; 204: 49-55 (**Research Highlight: Nature Reviews Immunology 2007; 7:89**)