



2015 THSNA Mentored Research Award



Chao Fang, PhD

Beth Israel Deaconess Medical Center
Harvard Medical School
Boston, MA

Mentor: Bruce Furie, MD

Project Title:

“Role of thiol isomerase ERp72 in thrombus formation”

The recipient of the 2015 THSNA MRA is **Chao Fang, PhD**, Research Fellow from Beth Israel Deaconess Medical Center/Harvard Medical School in Boston, MA, for his project titled “Role of thiol isomerase ERp72 in thrombus formation.” His mentor is Bruce Furie, MD, Chief, Division of Hemostasis and Thrombosis and Professor, Harvard Medical School. Both are members of the North American Society on Thrombosis and Hemostasis (NASTH). Dr. Fang received his Bachelor and Master of Science degrees from Shanghai Jiao Tong University, China. In 2008 he joined Dr. Alvin Schmaier’s lab as a PhD student at Case Western Reserve University in Cleveland OH. His doctoral thesis research described a novel mechanism by which the interaction of the Renin-Angiotensin System and the Kallikrein-Kinin System regulates thrombotic risk independent of the plasma contact activation system (*Blood* 2013, 121:3023; *Blood* 2015, 125:710). Dr. Fang continued his career in thrombosis and hemostasis as a postdoctoral fellow in Dr. Furie’s lab in 2014. In the Furie lab, Dr. Fang studies the role of extracellular thiol isomerases, the enzymes that are responsible for protein disulfide rearrangement, during thrombus formation. The secretion of thiol isomerases from activated platelets and/or endothelial cells represents a novel mechanism that is critical for the control of thrombin generation and platelet accumulation. Dr. Fang will utilize the laser injury thrombosis model to investigate the role of thiol isomerases in platelet activation and fibrin generation during his postdoctoral fellowship.