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Theodore Paul Brown

Objective

To assist in solving the problem of Thromboembolism by better understanding the mechanics and viscoelastic properties of Thrombi

Research Experience

Honors Thesis Research

- Conducted Independent experiments to elucidate the mechanics of Platelet- Endothelial cell tethering
- Cultured HUVEC and THP-1 type cells for experimental research
- Worked with and prepared fluorescent latex microspheres covalently coated with human proteins
- Created MATLAB program to determine rolling velocity and morphology of THP-1 leukocytes on endothelial cell substrate in a micro channel
- Created MATLAB program to analyze binding efficiency of human GP1b-alpha coated microbeads on various substrates
- Created MATLAB program to analyze acoustically levitated bovine thrombi and determine viscoelastic properties using image analysis

Employment History

Summer 2010	Research Intern	Tulane University, New Orleans, LA

Education

Expected Spring 2011	Bachelors of Science with Honors in Biomedical Engineering and Anthropology	Tulane University, New Orleans, Louisiana

Volunteer and Personal Interests

2007-present	Glass Worker and Shop Assistant	Tulane Glass Studio
2007	Volunteer	Habitat for Humanity
2008	First Lego League Team Coach	First Lego League

Awards and Honors

2007-present	Tulane Academic Achievement Award
2007-present	Horatio Algiers Scholarship
2008-present	John Jay Metzger Scholarship
2007-present	Deans Honors List
2007-present	Engineering Honor Society (Tau Beta Pi)