

MSTP STUDENT DESCRIPTION

NAME: Nicholas Liaw

e-Mail address: nliaw@buffalo.edu

Undergraduate College/University attended: Case Western Reserve University

Major: Biomedical Engineering

Years in MSTP (1-8): 3

DEPARTMENT: **Mechanical Engineering**

THESIS ADVISOR: **Dr. Hui Meng, Dr. John Kolega**

RESEARCH DESCRIPTION:

PhD Thesis title: TBD

Date of Completion (or expected) of PhD: 2011

Research Description:

- Hemodynamic mechanisms of intracranial aneurysm formation**
- Endothelial cell mechanotransduction through Stretch Activated Channels**
- Nitric Oxide Synthase and its role in intracranial aneurysm formation**

PUBLICATIONS / ABSTRACTS PRESENTED:

Mandelbaum M, Liaw N, Tremmel M, Gao L, Metaxa E, Swartz D, Mocco J, Siddiqui A, Kolega J, Meng H, “Nascent aneurysm formation at rabbit basilar terminus by hemodynamics.” Neuroscience Research Day 2008 (Buffalo, NY).

Paciorek A, Swartz D, Liaw N, Meng H, Kolega K, “Optimization of fibrin gel for the therapeutic treatment of cerebral aneurysms.” Biomedical Engineering Society 2007 (Los Angeles, CA).

Huang G, Liaw N, Sen Gupta A, Kottke-Marchant K, Marchant R, “Design optimization of RGD-modified liposomes targeted to activated platelets.” 2005 (to be submitted to *Journal of Controlled Release*).

Liaw, Nicholas. “Manipulation of platelet targeting and liposome clearance time by the surface modification of liposomes.” Summer Program for Undergraduate Research 2004 (OH).

PROFESSIONAL/EDUCATIONAL MEETINGS ATTENDED (name of meeting, dates of attendance, location):

- Neuroscience Research Day 2008, Buffalo, NY**
- Society for Biomaterials 2006, Pittsburgh, PA

AWARDS / HONORS:

MEDICAL SCHOOL ACTIVITIES:

- Lighthouse Medical Clinic (Manager, **2007-2008**)
- Medical illustration
- Logo/graphic design

EXTRACURRICULAR INTERESTS:

-Digital art, comic/manga art, anime, aikido, piano