Development of Non-Thrombogenic Coatings

Week – October 20 – October 26

Client: Arthur J. Coury, Ph.D.
Vice President, Biomaterials Research
Genzyme Corporation
1 Kendall Square
Cambridge, MA 02139

Phone: (617) 768-8002
E-mail: art.coury@genzyme.com

Advisor: William Murphy
Assistant Professor, Department of Biomedical Engineering
Phone: (608) 262-2224
E-mail: wlmurphy@wisc.edu

Team Members: Ben Roedl – Team Leader
Patrick Schenk – Communications
Darshin Patel – BWIG
Brett Mulawka – BSAC

Problem Statement
To form PEG macromer-based hydrogels on biomaterial surfaces in an interfacial photopolymerization process and to screen the coatings for interactions with cells and media that mimic physiologic fluids. It is hypothesized that these coatings will resist fouling and may be useful for implantable devices.

Last Week’s Goals
- Create and apply hydrogel to a blood bag or catheter.
- Continue working on mid-semester presentation.
- Establish a lab space with the appropriate reagents and tools.
Accomplishments

- Met with advisor.
- Multiple team meetings to work on presentation.
- Extensive communication with client
- Had missing triethanolamine sent.
- Completed mid-semester presentation.

This Week’s Goals

- Present our mid-semester status.
- Turn in lab notebooks.
- Create hydrogel and coat a material with it.