

Development of Non-Thrombogenic Coatings

Week – April 27 – May 3

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: Brett Mulawka – Team Leader
Patrick Schenk – Communications
Ben Roedl – BWIG
Darshan Patel – 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.

Accomplishments

- Tested more samples for adhesion and thickness
- Analyzed results for protein interactions
- Worked on final presentation

This Week's Goals

- Give final presentation
- Work on final report
- Talk to client about future options