

Development of Non-Thrombogenic Coatings

Week – November 3 – November 9

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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 hydrogel and coat a material with it.
- Get feedback from our mid-semester presentation.

Accomplishments

- Team meeting with advisor.
- Research on reagents
- Obtained several blood bags from American Red Cross.
- Mixed macromer, eosin, and 10X solutions.

This Week's Goals

- Create hydrogel and coat a material with it.
- Duplicate experiment and begin collecting data.