PROJECT TITLE: Development of Reversible Drug Release Cargo

Yoonjee Park  
College of Engineering and Applied Sciences  
584 ERC  
Cincinnati, OH 45221  
parkye@ucmail.uc.edu  
513-556-1359

Project Description

Current efforts in the area of ocular drug delivery include frequent intravitreal injection, which is not only invasive and inconvenient for patients but also may increase the risk of complications. Therefore, development of stable drug delivery systems which have ability to be released in a controlled manner for a long-term is necessary. This research project is about development of drug-encapsulated micro-particles, which release drug on-demand. Drug inside the particle core can be released upon exposure to light because the particles are responsive to light. During the summer, you will have experience on developing micro-particles and examining characteristics of drug delivery. The advisor will provide basic principles in soft materials, drug delivery, and various analytical technique. Basic chemistry lab experience is required.