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Subject: New Project Proposal Submission
Date: Thursday, May 21, 2009 5:11:02 PM

Graduate Student Mentor:	Scott Brown
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Department:	Particle Engineering Research Center
Faculty Advisor:	Scott Brown
Phone:	352-846-1194
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Lab Address:	205 PS and T Building
Department:	Particle Engineering Research Center
Title:	Nanoparticles For Cell-Based Therapies
Problem:	Tuberculosis granulomas are very difficult to target using conventional methods.
Approach:	We are using dendrite cells loaded with nanoparticles to target and irradiate tuberculosis.
Techniques/Equipment:	Nanoparticle Synthesis/Cell-culture.
Systems and Materials:	Converted Monocytes, PLGA/Silica Nanoparticles, NIR Dyes.
Goals:	Preparation of Antibiotic-loaded nanoparticle for cell-mediated therapies.
Relevant Industries/Applications:	Pharmaceutical
Number of Students Requested:	1
Time Commitment:	10-15
Semesters Required to Complete Project:	2 or more
Will this Project Satisfy Senior/Honor Research Requirements in your Department?	Yes
If not, Can the Scope of this Project be Expanded to Meet Senior/Honor Research Requirements?	No