

Project Id	135
Project Title	Immunofluorescent microscopic detection of Cryptosporidium and Giardia
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Additional Faculty	
Faculty Department	Biological Sciences
Project Description	<p>The objective of this project is to determine the prevalence of two waterborne human parasites, Cryptosporidium and Giardia, in the Pismo Beach during spring tide. Accidental consumption of these parasites may lead to acute gastroenteritis. In recent months, the Pismo Beach, especially the vicinity of the Pismo Pier, has experienced frequent beach advisory postings due to high fecal coliform contamination. As part of a larger study pertaining to the microbial quality of Pismo Beach, my lab will determine if there is an association between fecal coliform and the presence of these parasites. We will also investigate if lagoon is a probable source. An important outcome of this Honors project is to contribute to our understanding on the health hazards of recreational water and to recommend remediation strategy.</p>
Interdisciplinary Nature Description	<p>This project requires microbiology, molecular biology and microscopy knowledge. The student is expected to be highly motivated and to possess basic microbiological skill. Students will learn about immunomagnetic bead separation and immunofluorescent microscopy techniques.</p>
Links	
Number of Honors Students Requested	1
Applicable Majors	MCRO
desired_res	See above
Date Added	2008-10-20 18:09:11
Active	1