

# DUSCI

Drake Undergraduate Science Collaborative Institute

## Drake University Science Colloquium Series



### Protein-Protein Interactions in the Cytoskeleton of Ciliated Protozoan *Tetrahymena thermophila*

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“*Tetrahymena thermophila* is a ciliated protozoan that is found in freshwater ponds and springs worldwide. In previous studies, GFP-tagging allowed for several different structural components of interest in *Tetrahymena thermophila* to be identified—each being specific to certain domains within the cortex of the living cells and related to a specific function. This research initiative seeks to determine which of these structural proteins (EPC-1, TCB-2, EPB-1) interact with one another and, in cases where there is an interaction, what is the mechanism? Additionally, what specific structures are formed by the interactions of these proteins? Finally, does differing levels of calcium ions have specific physiological effects on the binding of EPC-1 and TCB-2?”

**Friday, March 9, 2018**  
**12:00 - 12:50 p.m.**  
**Harvey Ingham 134**