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Analysis of *Saccharomyces cerevisiae* Circadian Rhythms in Continuous Culture

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The circadian rhythm is a roughly 24-hour cycle in the physiological processes of organisms. There have been many studies on the circadian rhythms in other model organisms, but not in *Saccharomyces cerevisiae*. To study the rhythm in *S. cerevisiae*, the levels of GAP dehydrogenase were observed. After the baseline levels were recorded, the conditions were changed to see if the circadian rhythm could be manipulated. The importance of identifying and studying the circadian oscillators in *S. cerevisiae* is to understand how the circadian rhythm is altered in differing conditions. The purpose of this experiment was to identify how changing the light and dark cycles affected the overall rhythms of *S. cerevisiae*.

Information about the Authors:

Lauren Zager is a senior with majors in biology, chemistry and humanities. She will be attending medical school at the University of Wisconsin-Madison School of Medicine and Public Health following graduation. Melissa Kohner is a junior biology major with chemistry and history minors. She plans to continue to do research with Dr. Sara Dick next year and plans on attending medical school after graduation. Carlton Lyons is a junior biology major. He became involved in Dr. Dick's research through his interest in how organisms work and interact with the environment.

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