

# BIOMECHANICS, BIOENGINEERING & AUDIOLOGY

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## Application of elevated pressures to cultures of the hydrogen-oxidizing bacteria, *Cupriavidus necator*

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The use of pressure as a parameter to manipulate the growth and production of cell cultures has recently begun to be thoroughly investigated. The variability of effects on different cell types and species indicates that there is much more to learn about the use of elevated pressures (up to 10 bar) within bioreactors and how to best utilize this asset. During this talk, we will explore the current state of research on the applications of elevated pressures to bacterial cultures with specific consideration to its use in the culturing of hydrogen-oxidizing bacteria.

### Biography

Eric Holt is pursuing his PhD in Gulari Laboratory at University of Michigan. He completed his Master's degree at University of Michigan and Bachelor's at University of Louisville. Prior to pursuing an engineering degree, he served in United States Marine Corps. His interests are in "The development of clean and sustainable processes by utilizing the capabilities of microorganisms".

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