

## Distinguished Lecture Series in Physiology

### Candice Paulsen, Ph.D.

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## “It’s complicated: mapping the calcium regulation mechanism of a critical pain receptor”

The mechanisms controlling the transition from acute to chronic pain are not well understood, but many lines of evidence support the wasabi receptor, TRPA1 is involved in this process. In this seminar, I will report on our progress to determine how TRPA1 activity is kept in check by calcium. We are uncovering an extensive, multi-step mechanism involving the universal calcium sensor calmodulin using a combination of biochemical, biophysical, electrophysiological, and structural approaches. These studies will provide a greater understanding of TRPA1 regulation and may uncover new avenues for rational drug development to treat chronic pain and inflammation with non-addictive therapeutics.

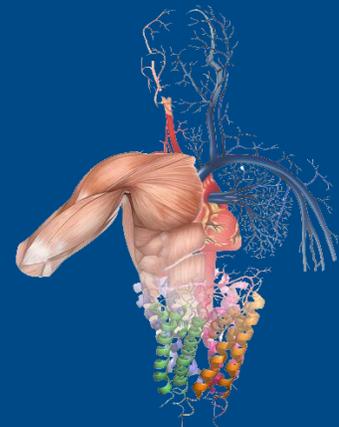
Thursday, May 22, 2025  
GBSF and Zoom  
12 p.m.



May  
22



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