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## Calcium signalling in the sperm head

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Calcium signalling is a ubiquitous mechanism that many cell types use to control a plethora of biological processes. In particular, calcium plays a large role in fertility both for egg and sperm cells. In this presentation, we will focus on the acrosome reaction, which is a calcium-modulated vesicle release that must occur for sperm to successfully fertilize the egg. We will discuss the important biological components in this reaction and develop a mathematical model that highlights how multiple pathways interact to drive this unique calcium-driven event.

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