MBG FOCUS TALK

hosted by Charlott Stock & Poul Nissen



Tuesday 1 December from 10:00-10:45

In the seminar room (1870-716), Dept. Molecular Biology and Genetics, AU

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From PMCA Autoinhibition to Calcium Signaling and Cell Behavior

Plasma membrane Ca^{2+} ATPases (PMCAs) transport Ca^{2+} out of cells, restoring and maintaining low cytosolic Ca^{2+} concentrations. Early studies revealed that pump activity is regulated by a C-terminal region that acts as a built-in inhibitor. When cytosolic Ca^{2+} concentration rises, calmodulin relieves this autoinhibition and activates the pump, shaping Ca^{2+} signals in an isoform-specific manner.

Our current work examines how the expression and cellular localization of the PMCA4b variant influence cancer cell migration and epithelial organization. This seminar will trace the path from the discovery of PMCA autoinhibition to our current understanding of how these pumps regulate calcium signaling and cell behavior.

Ágnes Enyedi is external opponents at Nikolaj C. Straarup's PhD defense on 2 Dec. 2026.

Everyone interested is very welcome to join the seminar

The MBG Focus Talks are organised by
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