



DANDRITE Lecture

Monday 31 August 2015 at 09.15 - 10.00

The physiology Aud., Dept. Biomedicine, building 1162-013, Ole Worm's Allé 3, 8000 Aarhus C



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Structural studies of ryanodine receptor gating by cryoelectron microscopy

Structures of the type 1 ryanodine receptor (RyR1) have revealed the architecture of the closed channel, but the structural basis for RyR1 activation has not previously been described. Here we present cryo-EM reconstructions of RyR1 in multiple defined functional states, including activated states, allowing us to provide a detailed description of the conformational changes, both in the transmembrane region and elsewhere, that are associated with calcium binding and channel activation.

Host: Professor Poul Nissen, DANDRITE, Aarhus University

