Wednesday, May 23, 2018
LSC 3 | 12:00 - 1:00PM

Dr. Edwin Moore
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“Rapid Ultrastructural Changes Regulate the Function of Cardiac Ryanodine Receptors“

We have demonstrated a new, fundamental, mechanism that regulates Ca\(^{2+}\) release from the sarcoplasmic reticulum; rapid rearrangement of the ryanodine receptor (RyR) array. This is an emergent property of the RyR ensemble that effects changes in RyR open probability (Po) and in the efficacy of inter-RyR calcium-induced calcium release. It is a major mechanism by which changes in Mg\(^{2+}\), the immunophilins and cell-wide phosphorylation exert their effects.

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