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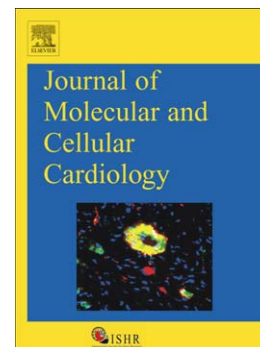
Sarcolemmal Ca^{2+} -entry through L-type Ca^{2+} channels controls the profile of Ca^{2+} -activated Cl^{-} current in canine ventricular myocytes

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Sarcolemmal Ca^{2+} -entry through L-type Ca^{2+} channels controls the profile of Ca^{2+} -activated Cl^- current in canine ventricular myocytes

Short title: Ca^{2+} -entry controls Ca^{2+} -activated Cl^- current

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Highlights

- Ca^{2+} -entry via $\text{I}_{\text{Ca,L}}$ is essential for the activation of $\text{I}_{\text{Cl(Ca)}}$
- $\text{I}_{\text{Cl(Ca)}}$ can be activated even in the absence of CICR
- TMEM16A and Bestrophin-3 are expressed on human left ventricular muscle
- TMEM16A and Bestrophin-3 co-localize with each other and with $\text{Ca}_v1.2$ channels
- Only BAPTA but not EGTA can buffer effectively $[\text{Ca}^{2+}]_{\text{cleft}}$

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