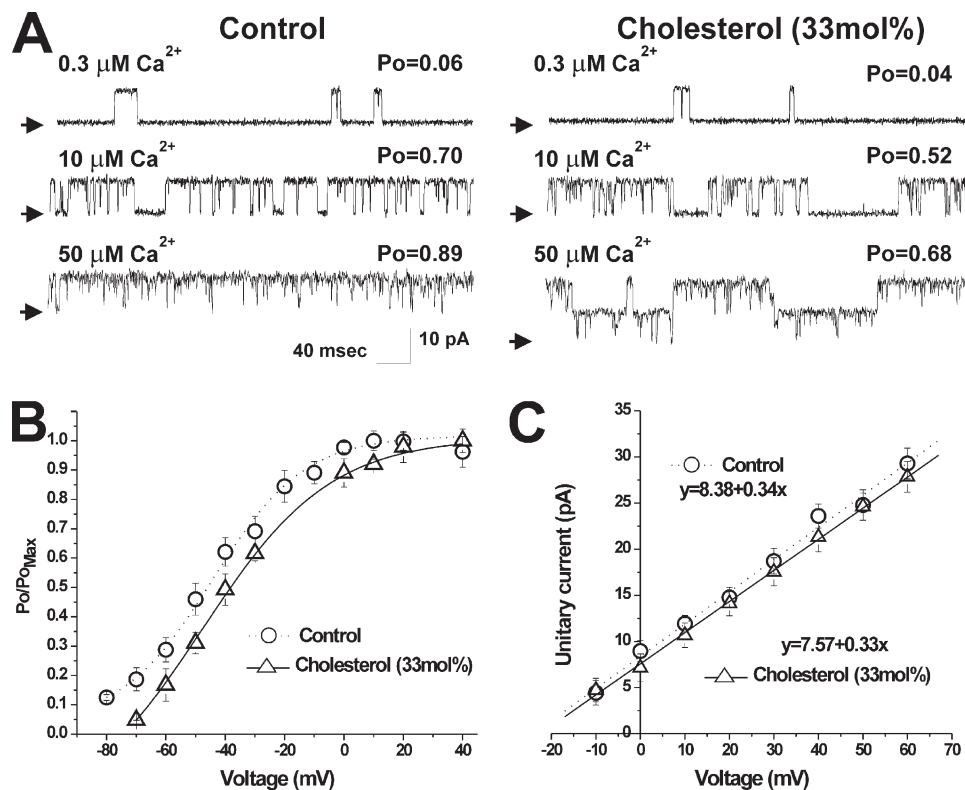


**Specificity of cholesterol and analogs to modulate BK channels points to direct sterol–channel protein interactions**

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Please note that in the original Fig. S1 B, the y axis was mislabeled. The y axis of the plot should have been  $P_o/P_{o_{\text{Max}}}$  rather than  $P_o$ . The correct figure and legend appear below.



**Figure S1.** Basic properties of BK channels in POPE/POPS 3:1 (wt/wt) bilayers. (A) Original records of cbv1 channel activity obtained at 0.3, 10, and 50  $\mu\text{M}$   $\text{Ca}^{2+}$  at the cytosolic side of the control sterol-free POPE/POPS 3:1 (wt/wt) and 33 mol% cholesterol-containing lipid bilayer. Records show a progressive increase in  $P_o$  as  $[\text{Ca}^{2+}]_i$  is increased. Channel openings are shown as upward deflections; arrows indicate the baseline. The membrane potential for each recording was set to 0 mV. (B) A voltage (V)– $P_o$  plot obtained after the incorporation of cbv1 protein into control ( $n = 5$ ) versus cholesterol-containing ( $n = 7$ ) bilayers underscores that cholesterol presence does not alter the voltage dependence of cbv1 channel gating.  $P_o$  values at each voltage in cholesterol-containing versus cholesterol-free (control) bilayers were normalized to their corresponding maximum ( $P_{o_{\text{Max}}}$  in cholesterol-containing bilayer,  $\approx 0.7$ ;  $P_{o_{\text{Max}}}$  in control bilayer,  $\approx 0.9$ ). (C) Cbv1 channel unitary current amplitude (i)–voltage (V) relationships from records obtained in 300/30 mM  $\text{K}^+$  render unitary (slope) conductances of  $\approx 340$  and  $\approx 330$  pS for control ( $n = 5$ ) and cholesterol-containing ( $n = 7$ ) bilayers; these values are characteristic of BK channels. For B and C, data were obtained at  $[\text{Ca}^{2+}]_i = 10 \mu\text{M}$ . Curve fitting was performed using Origin7 (OriginLab).