





Supplementary Figure 2

Supplementary Fig 1. Computer modeling of the Na⁺/K⁺ ATPase in GoCs. **A**, The isolated Na⁺/K⁺ ATPase current increases with membrane potential, in agreement with the findings of Takeuchi et al., (2006). Ionic concentrations used in simulation are given in the text. **B**, Simulation of the effect of increased concentrations of ouabain on Na⁺/K⁺ ATPase function. **C and D**, Simulation of the effect of increasing concentrations of ouabain (0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1 μM) on spontaneous action potential firing and membrane potential.

Supplementary Fig 2. Computer modeling of the effect of ouabain on the firing frequency and RMP response to current injection. **A**, Average GoC current-frequency plots simulated under control conditions and in presence of 0.1 μM ouabain. Firing frequency was calculated as the inverse of the mean interspike interval. **B**, GoC current-RMP plots simulated under control conditions and in presence of 0.1 μM ouabain. There is a slight increase in the maximum change in the resting membrane potential (ΔRMP) and Δf (Hz) in the model with ouabain due the small 3 M Ω decrease of R_{in} .