Report

30 March 2021

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| Aim: | Replicate Kira’s 4c – adding impermeant anions (1mM) mid simulation |
| Hypothesis: |  |
| Starting values: | Default 2 compartments |
| Simulation setup: | 20 min sim, 1ms time step  Variable ATPase  Adding 1mM impermeants between 6 and 12 minutes |
| Final values |  |
| Relevant graphs | Graphs not rendering well. |
| Boundary graph |  |
| Conclusion | * Success * Compartment not at equilibria * Same voltage dynamics as Kira’s 4c * Volume change is not identical… mine only increases by 0.1 pL while Kira’s increases by a bit more, but dynamic is identical |