Molly

It was nice to speak with Jac.

Alterdad please find mock-up drawings of the planned Figures for one Biograps J

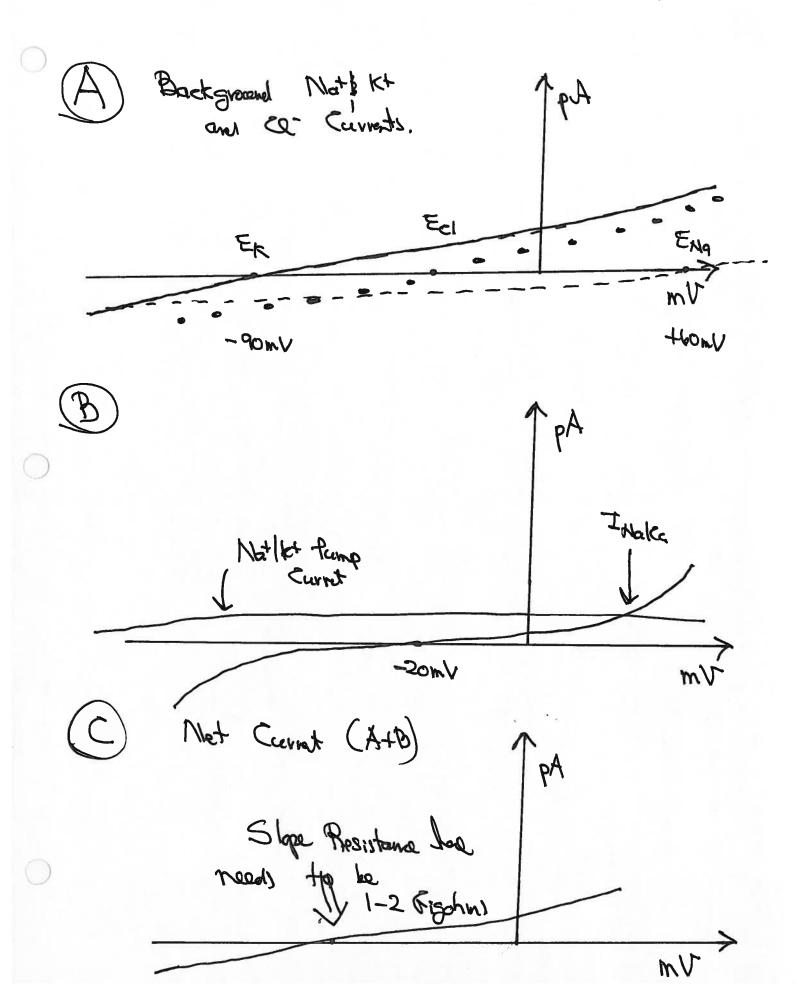
paper. This may help to quite free discussions with theirish.

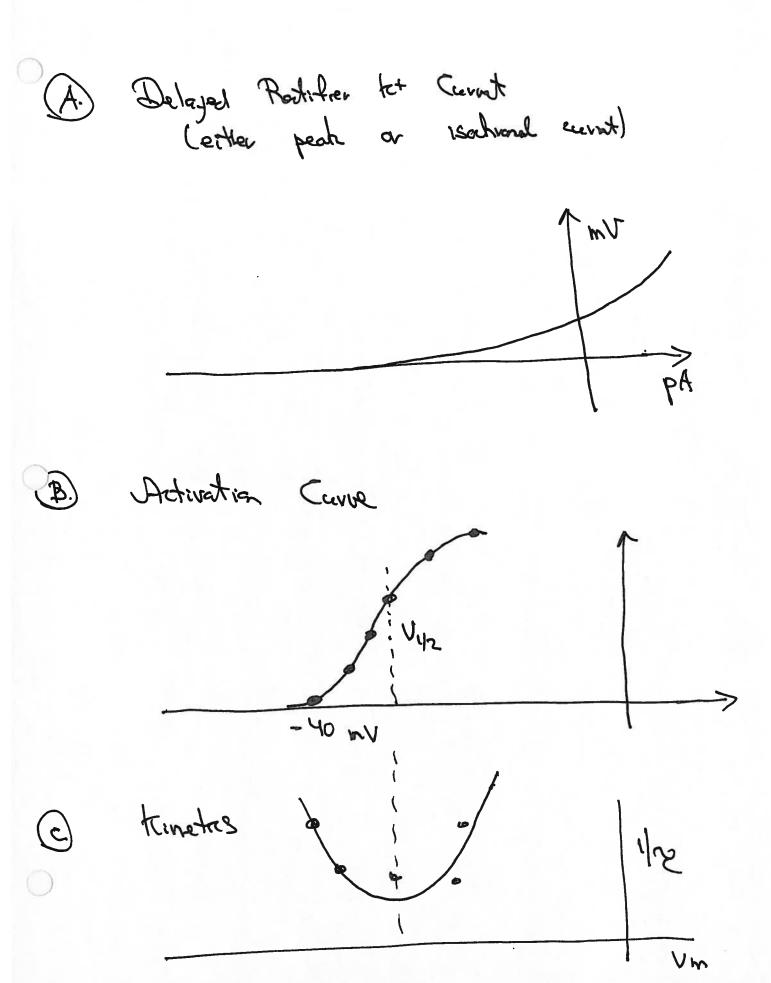
In addition I have attached shandwritten material for the venerable of Ass Results and pulsing 13 of the Discovier. This will be transmitted have by a Evidy (19th).

Please ration that feel have received them material W. E.G.

existing

3x larger labels
add Ca2x peemp





2-Pove K+ Current

Date obtained recorded in isotona (tit) Consider showing doctor in Bupilocaine Data in A corrected for physiological -85 mV.

(c) New not event ie Fig 22 plus Fig 4B.

Fig. 5.

Ca2+ - activated to Curmt

cakuldo at

[Ca2]: = 107M

PANNHWW

MI

ATP Sonsitive ter Eurnt

Hypothebral - weel have no det

State ATP IADP vertio

which goneth ether

and validate

Though be a 100 pt.

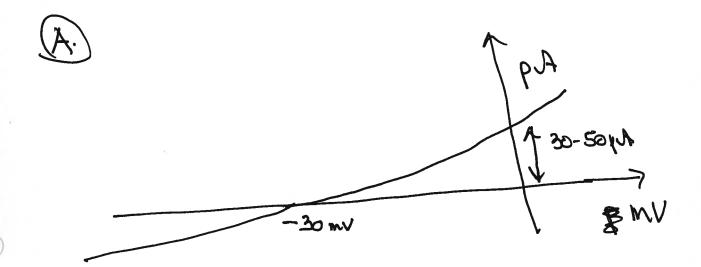
Influence of Path Pipelle Seal Rosistan

This use the not books, and 20 from Fig 20 Comments of Sed.

Theremondance of Sed.

B Report A w 2-love kt Eurach
Advisched
il met from Joan plus Ik-20
from Fig. 48.

- placed in the Discussion section
- demonstrate effects & ligand e.s ATP
activities & TRPV4 channel



(B.) Assembly $p^{N_{C}} = p^{C_{C}}$ and calable

Not and Ca^{2+} influx end ΔCNa^{2} :

and CCa^{2+} ; if about us open

for 500 mass; or one every

seemed by 2 min.

C.) Asseme that stuth incress the soletone 3- I've and oreject schoolities in (1) about

DISCUSSION

Utility of the First Orbor Model transpland go state travary with nt legeres a cotresoryon lebom with warni-quantative tool & as part of our multidisciplinary wheeles of human chardragte electrophysily) biophysies. Our initial emphasis used the state una cenier litural gritaen denouscess to g lism chains and the chambreyte is a moskitable well. In seek circumstance it is known that even very small sharps in crasting membrone patental can strugg

modulate intracellula Casa hancostació and signalling. Small thanges in dudithes ale mos litirage ensideren to the regulation of call volume. The strongth and dustra of ligand-gotel conductiones also shough signocuty as a remaganne & change in memberere potential and the met electrichemical deving forces.

The computations shown in Figs. 2 Atroph to do not explain the ione books of the resting membran potential in the human characters. Rather they illustrate that a very a volume a volum

he expoted board on the net ette myf staren toott towns boukgient rendentaines pour weal a the peens and only remain. In att writing problems your teak reason thigh the sool rester will influe and rould dominte the observed beston potetie In addition, though in sol rasistane real, in the real, give sto infonia & an 'untille' vooting manbrone petatil. The question crosses: Illhat are the physilgal valor of the

identified and showsterized to the Showingke eldisons after that the data can justify. At the restambles tothe cools on the testoso John Stemstan with made count provide and wearh unequival insights answers. Nevertheless, the V-6 tem love coop belagons tart cools to show corns any of all of those remarks could (3) significally hypotherize the verting anombions potential and los (ii) vepderige the chardrage that has been deplacized by medand activity or a ligary-gatel emotishers.

Legisephytede afte Ger elympied nA to activities of the TRP response showed that are trace to be acquarred in charchegtes. A characteristic TRP Vy 2-V rawe in show in Figure 7A and the effect on membrene potential can be declared by adding the zunt (----) to the I-V relation of compated in Fig 52. It is clear that the ability of the zondeiten to delive a signifiant influ e Car a Met depoule on, in fact, vagues the should be have a voting nonline

potential in the range of -50 mV. The TRP channel induced depolarizations will be limited and avantually transforms into a rapdorization by adridia y the delaged ratific ht rount 1 K-DR. . In addition if TRP home advition mousn's testings as no classes in introvalled Card, the activity l'Arca se superted. Figure 7 hear have

Consideration of the physiological milieu within the orthon joint In when constances the color what the identified to recent may be imported for function. Thus the extravoluler fluid us hypertons. The efforts of osmolouty on Voltge-goted kt reenets have been esteeled extensively. In hiel as a renopona of senfare house efforts (Shielding) a hypother modition preclass a deplarizing shift in steals - state goting or voltage sonsitivoly. Since our experimits were remember in an estima medium,

the regular sometion would made the stody-thate activities reme for 2r-on paly 5 ml in The depolarizing dentiar This would make dues with that parol new ti , bitisting potential of statutous visions of eleve to nitred ted prenet repolarization while mainteening e high motion toget List a

The fact that the charlongle at the both to the while an in hathad was a ni hathad was a to the oth to the appear this washing after the they are the short of the short of the fairful to the fairful to

channels one known to be sonstill to pt , In fact these a current partialism to matrition objection of the extracel medium. Our 1.7 of the art are are trainingue have tuess bedrosen with , flowbrossa. he applet exported to be longer at pt 7.0 and the woold add a significant hypotherizing curvet. This production is placesill some it is known blocke, Dupivacaire, Significaty deplosizes isolated showherte preparation, including the human Zhandryte.



Limitations

As presented the mathematical medel el charlogte electrophysiology provides a reliable platifican for explaining and evaluation experimente data un the guitan aft of stalen Ludus blait epolated er some osports of velone nagelation. They first order model vie also useful for anationalizing and integriting date from expersion any prefile on ion shound antipode due scroning initiatives. Iteration board an the somi-quartitative approved while ces made possible by the madel

(k)

also is very enoted for designing giberen to Lowis etaminapse were madaism which govern madulate excetation - secretion coupling Finally, given that the charlege es in a unique, but jet not rempleles definal unknownith, and model uprovites a boson for the exploring 3 toffer lightpid word out (i) altered ione strongth an ion shoul voltger deposent goting (zeta potential efforts) (18) are mede for acranting to the effort & alterdan in should gotting kinder (ef) and

(iii) emeel - needed approaches for detecting and detecting the west in which limitations of path clamp which limitations of path clamp can techniless (seed resent value) can beautiful (seed resent dictate, resenting date sets and their interpretations.

elle also vacegnize that cert who stage one model how significant limitations. Those include best people as not limital to:

The above of any compositive account I set & descriptor for intervellular Cat homostaris. There is uncoded for an imprired rembedending of the relation of cat activited test and to show the case activited test and to show of showing, and the secretion coupling and (iii)

an appeal to what how bean towned AM and FM Card signalling in the critest of Card dependent phosphagleties or other mades of transcription or organization of

(ii) An improved understanting & evel unattential appeal to the realist consequence of substantial appeal of consequence of the shifts in whether activities the shifts in anders & medes & metabolism

(111) Insternition concerning the electrophysiology Largeti' for unachase southants.

Acknow ledgenosts

Exprimatel work in the Gib Ideorates were weaported by an Albertan Dinnovates - Health Salarties Scientist Award (WRG), an AI-HS states great, and Canadian Institute for Health Research aparating funds.

The Health Research aparating funds.

When are grateful to the Southern Alberta Toxas Transplat facility and

of feeder (Dr. R. tracets) for scepply of human stesses.

actually of human stesses.

Ms Colleen Rub prepared the human whented samples and provided other essential Simple in substitutes with an Al-149 - findal postdabal account

Reference

Place modify not list so that it is careated with the regressed

Bighy I formt.

Bob 2 tech will do she Some re oned new rets at the one.