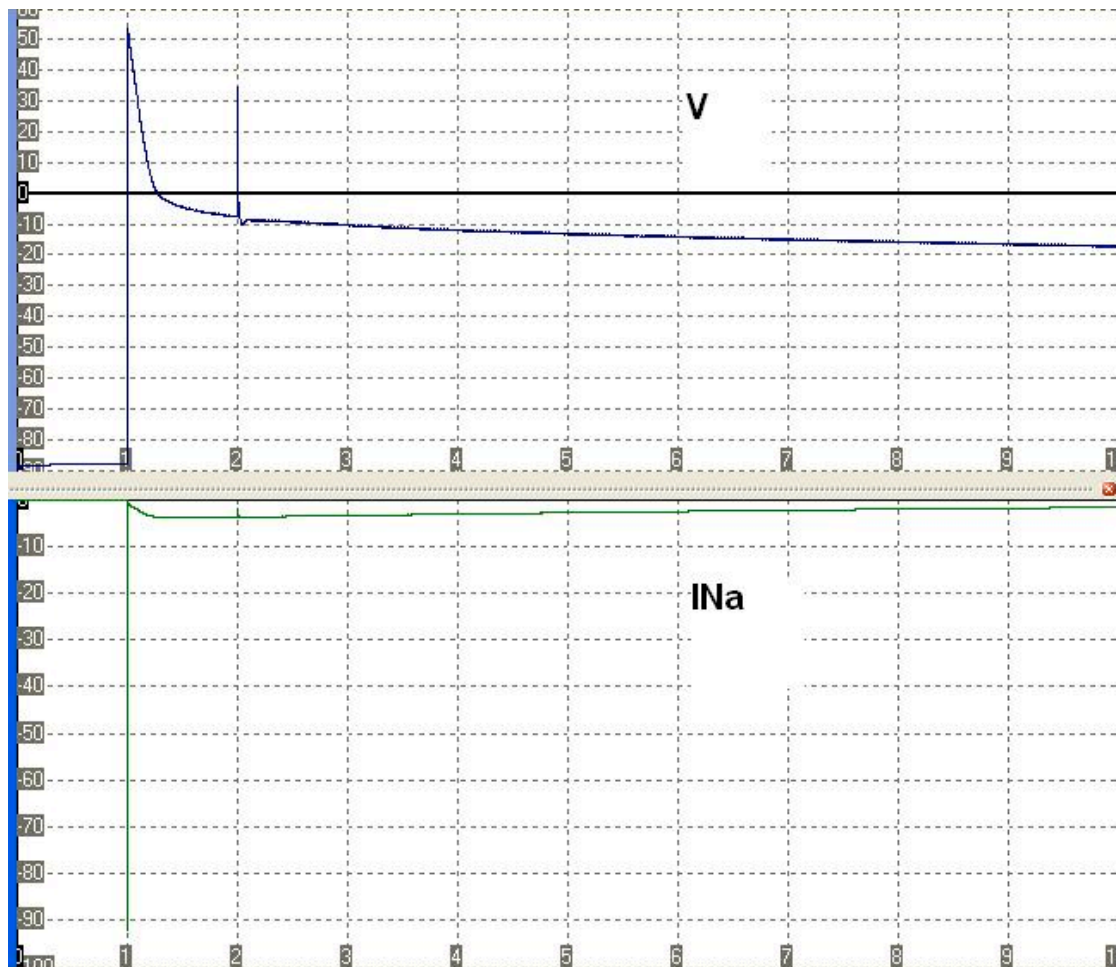


Clancy-Rudy CellML Model Results

Clancy_Rudy 1999 Nature 400 566-569: INa KPQ mutant

Figure 4 Simulation:-

KPQ Mutation

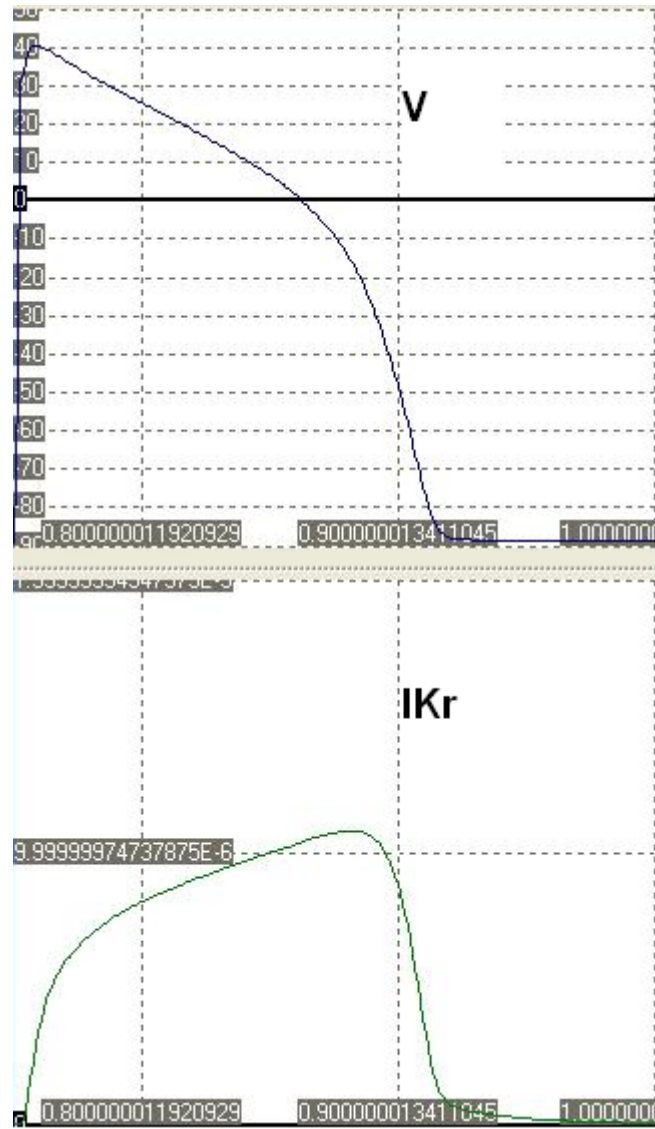


Comments: Control is fine but mutant AP does not recover!

Clancy_Rudy 2001 Cardiovasc Res 50 301-313: HERG mutations

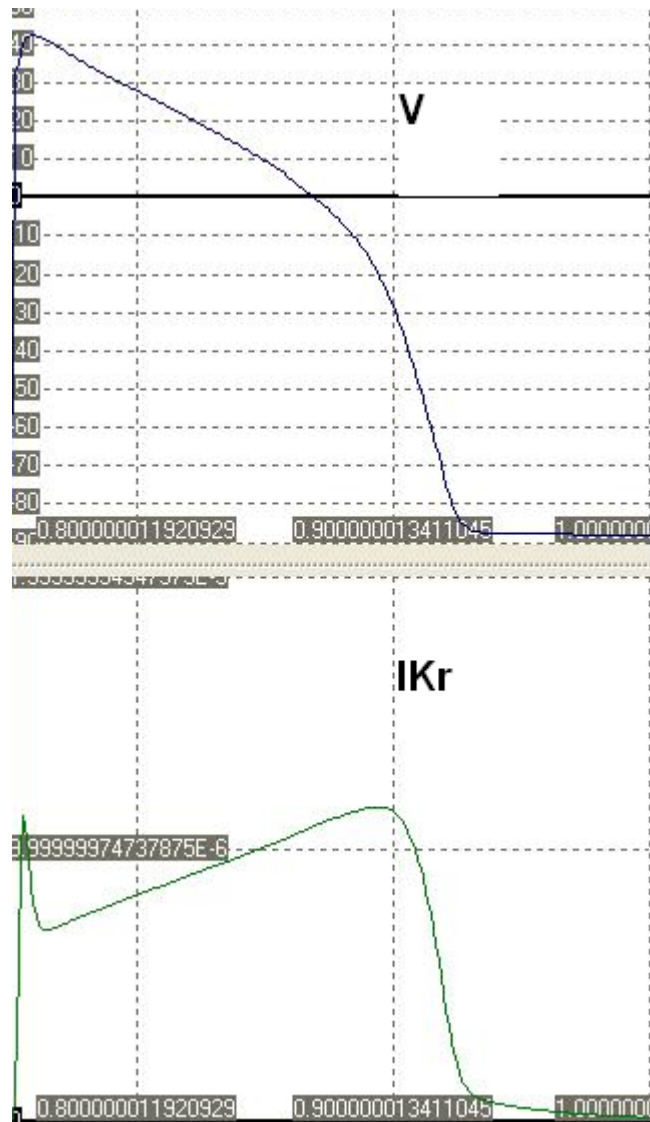
Figure 6 Simulations:-

Wild-Type M Cell



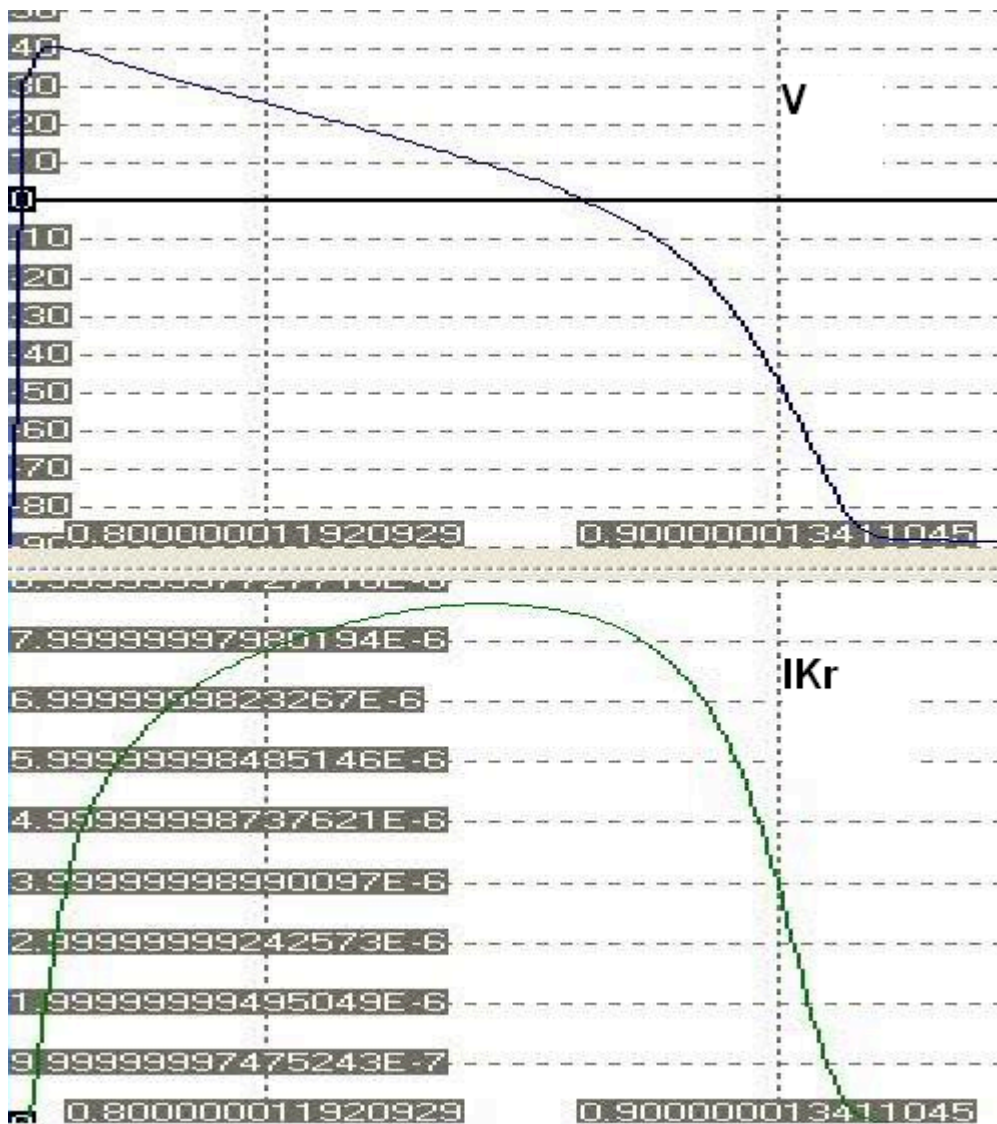
Comments: Looks fine compared to figure.

T474I Mutation M Cell



Comments: Looks fine compared to figure.

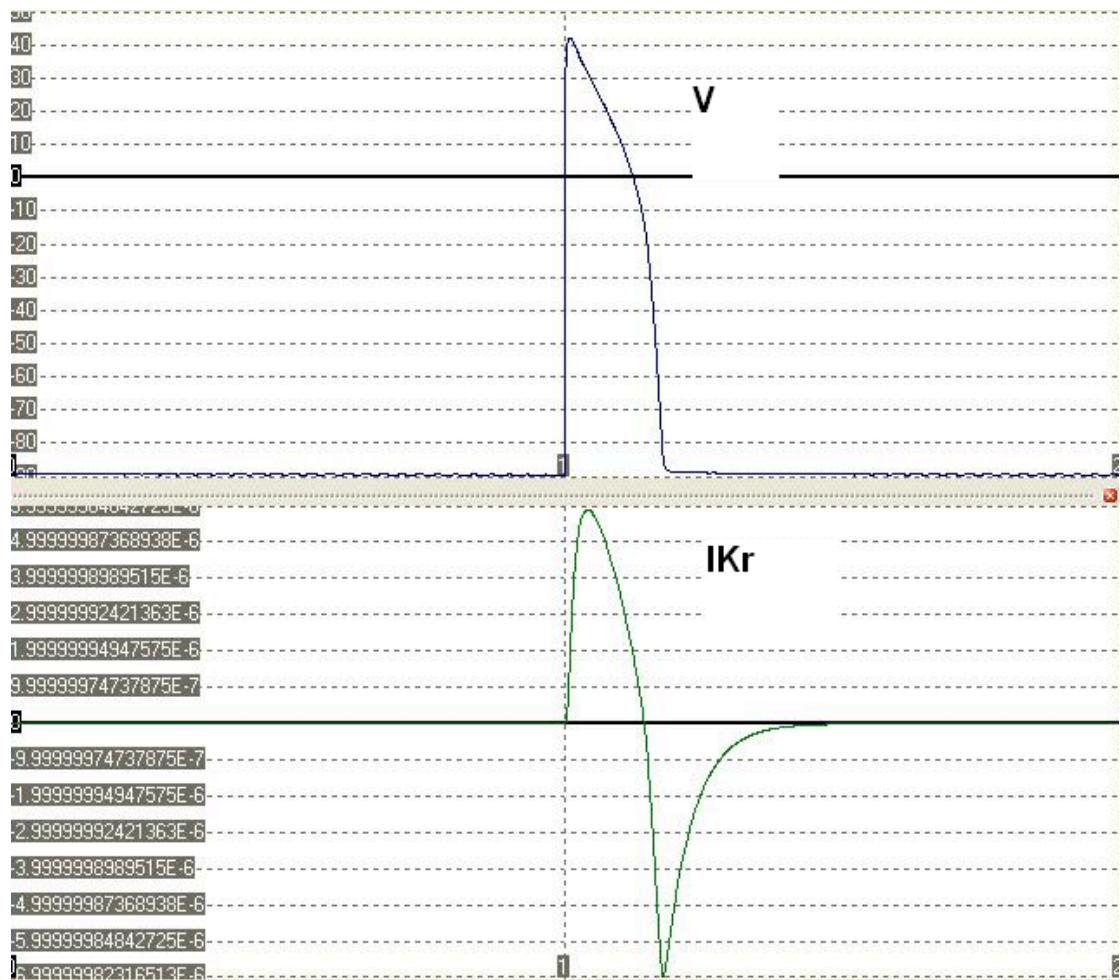
R56Q Mutation M Cell



Comments: Timecourse of IKr in this case does not seem to fit with figure.

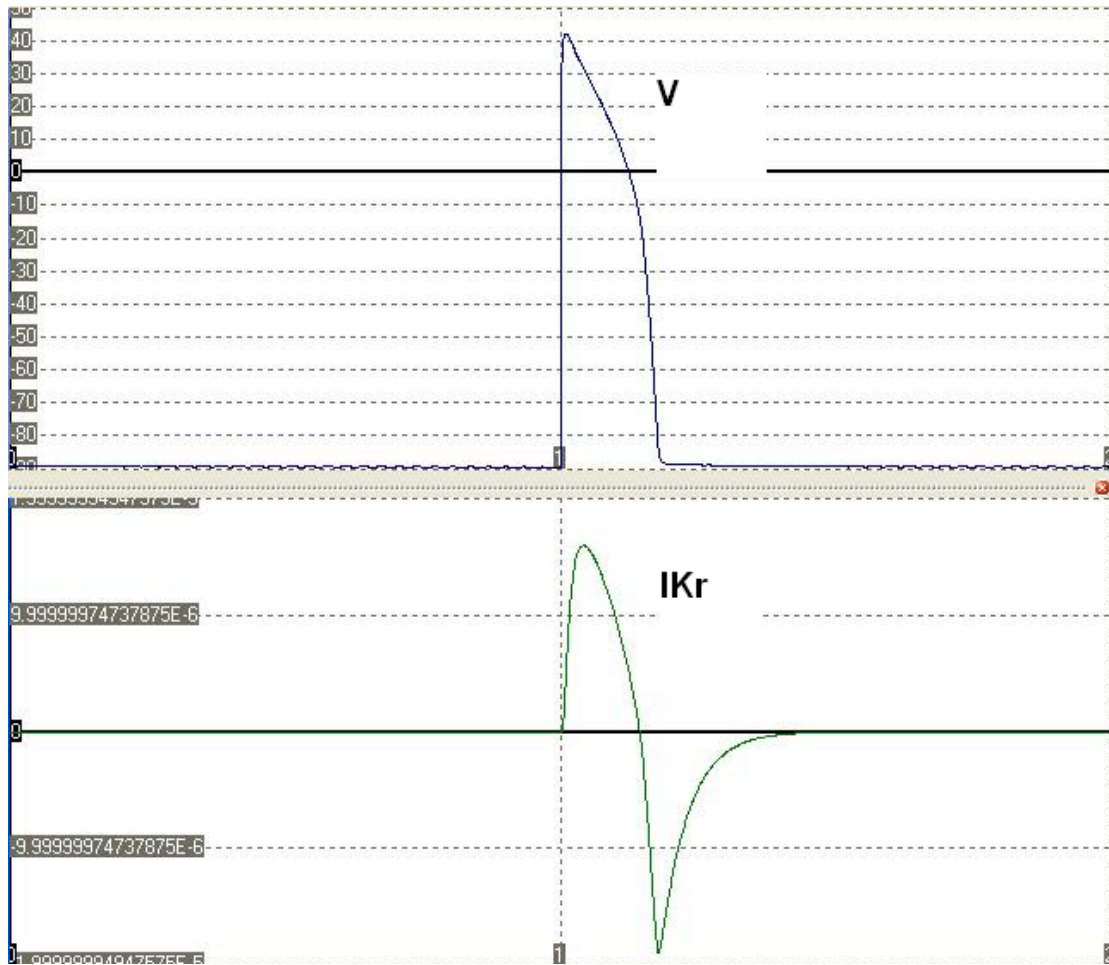
Figure 8 Simulations:-

N629D Mutation Epi Cell



Comments: Looks fine compared to figure.

N629D Mutation M Cell

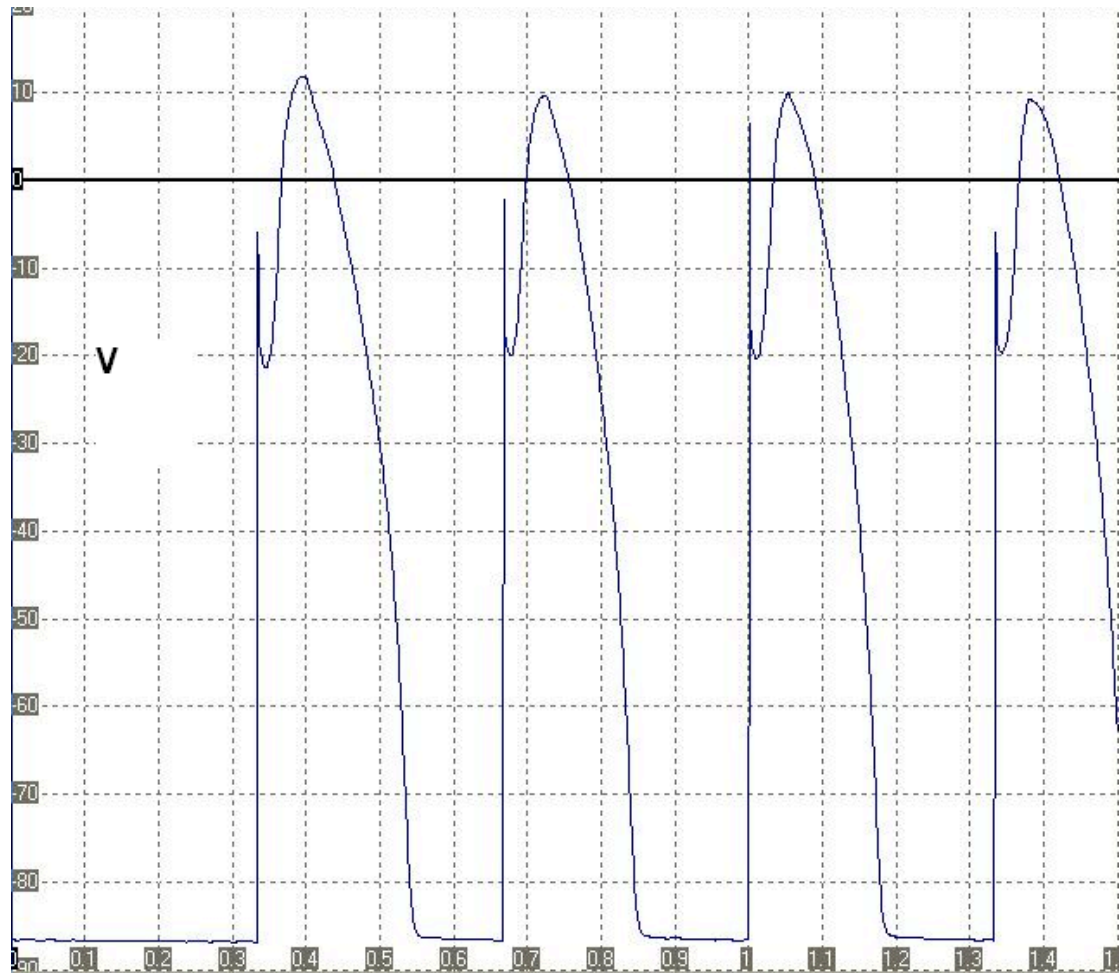


Comments: This should produce EADs and does not.

Clancy_Rudy 2002 Circulation 105 1208-1213: INa 1795insD mutant

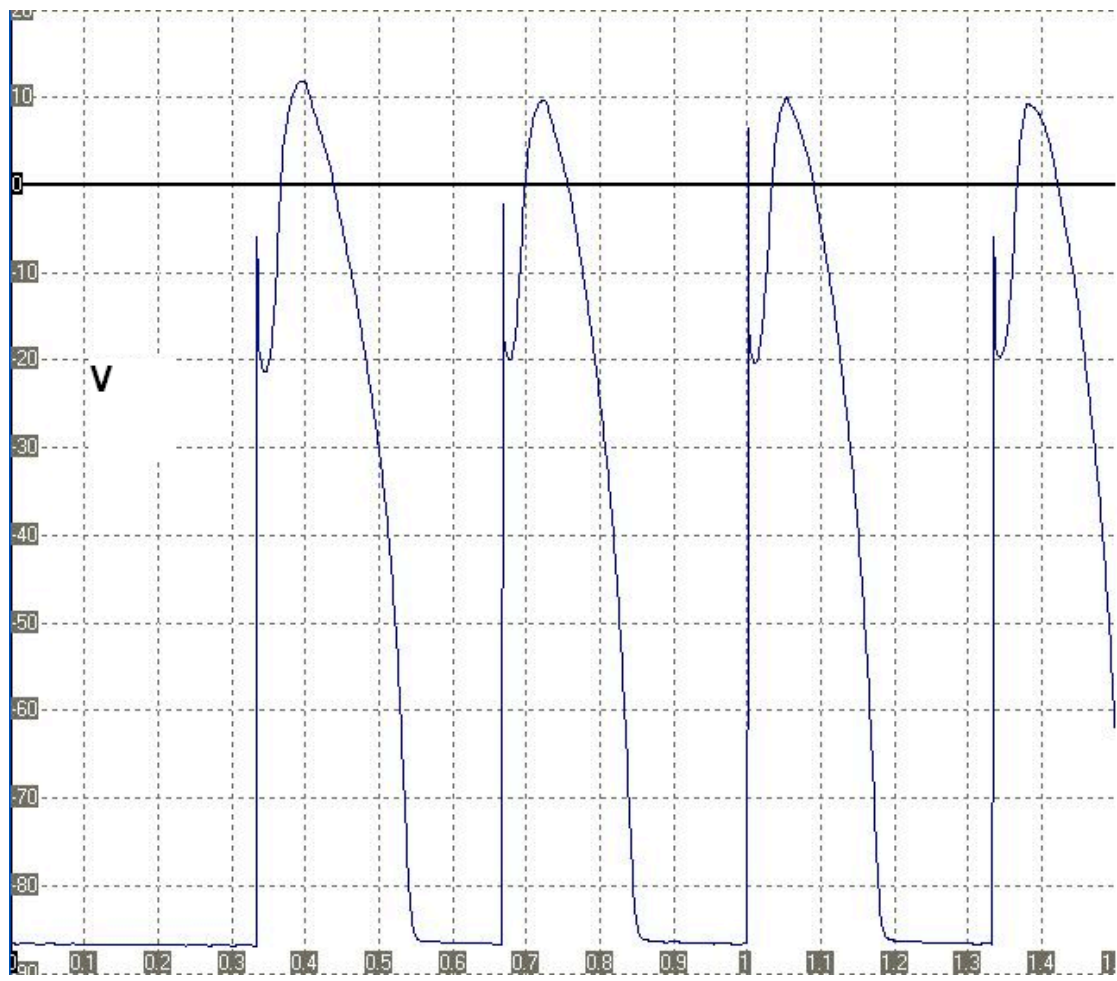
Figure 5 Simulations :-

Wild-Type Epi Cell



Comments: Looks okay compared to figure.

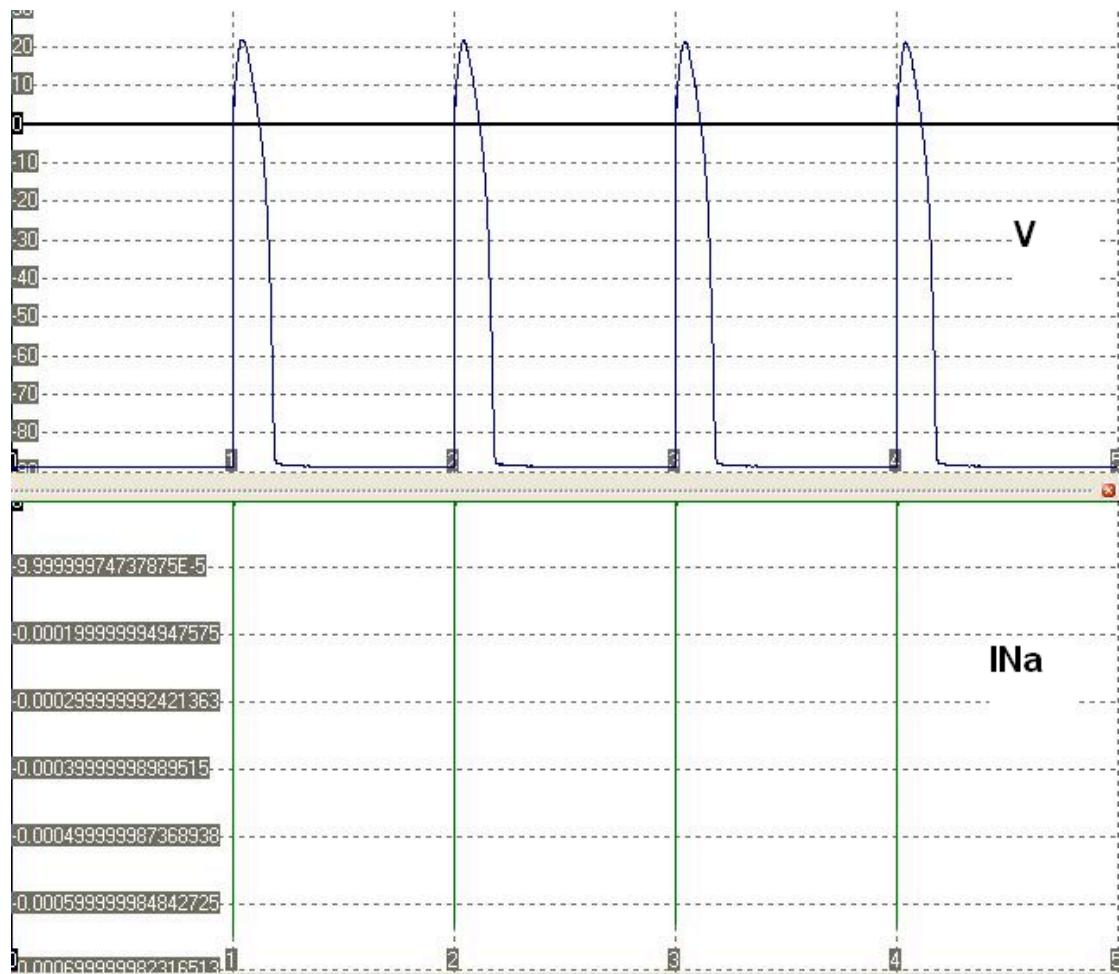
1795insD Mutation Epi Cell



Comments: Mutation seems to have no effect!

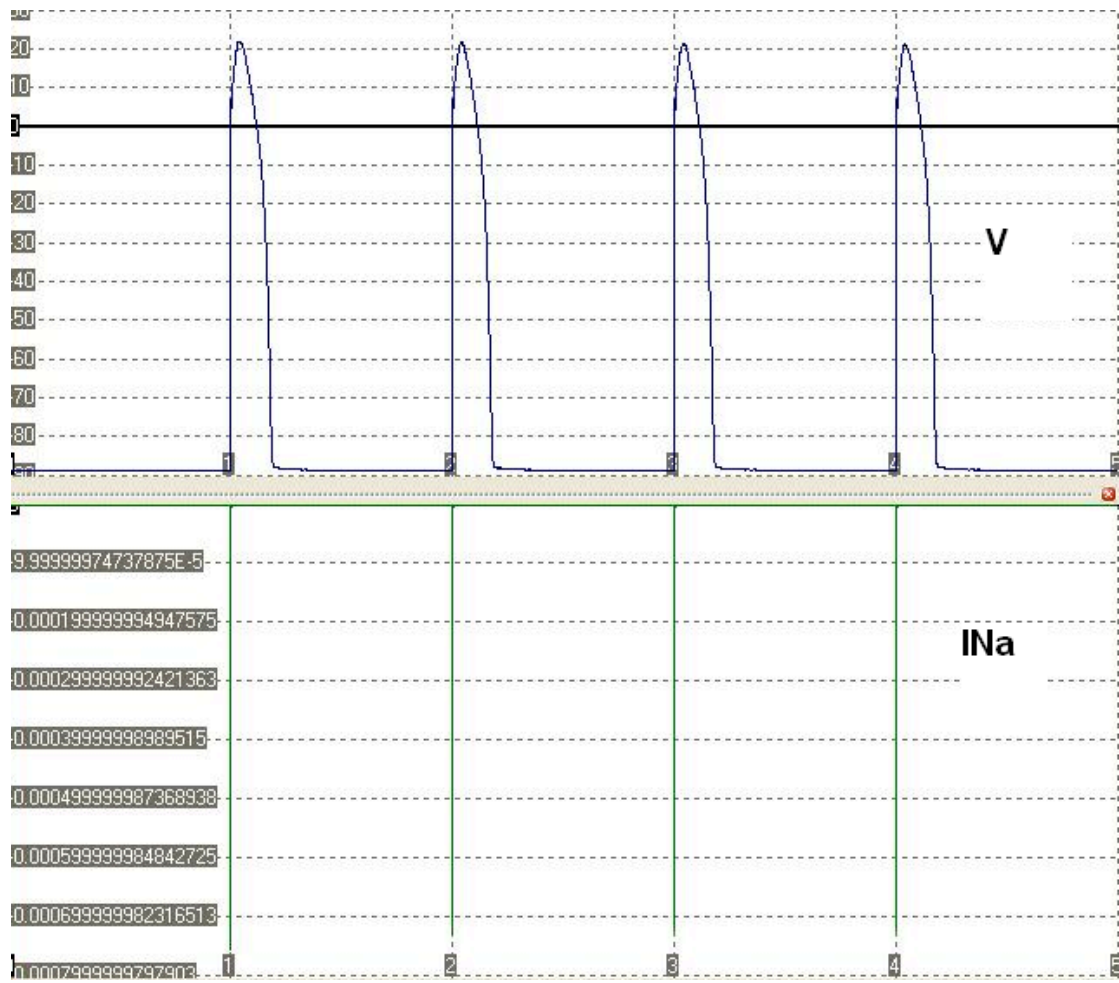
Figure 7 Simulations :-

Wild-Type M Cell



Comments: Looks okay compared to figure.

1795insD Mutation M Cell

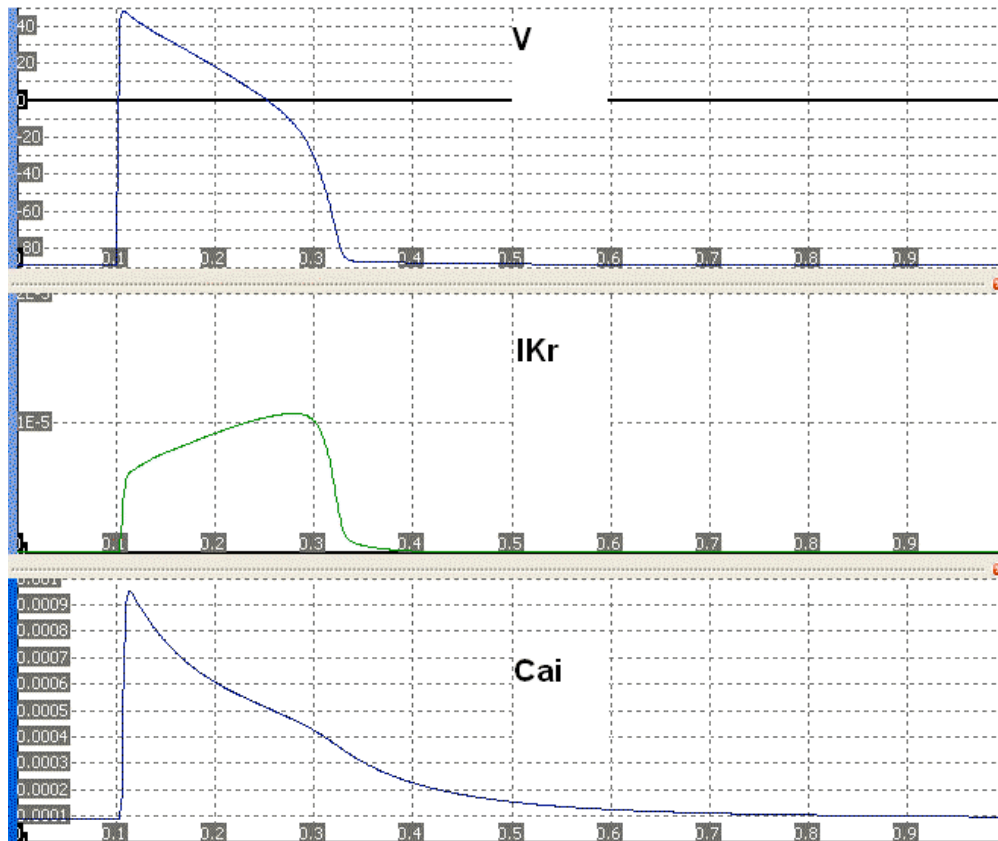


Comments: Mutation seems to have no effect!

11th September 2007

(Corrected error in relation to I_{NaCa} in $dCai/dt$ missing "2*")

Clancy_Rudy 2001 M cell WT after 100 beats



Clancy_Rudy2001 IKrN629D M cell after 100 beats

