- 1. There is only one Ih channel gene [1, 2]
- $2.\,$  Also known as DMIH (drosophila homologue of HCN channels)

# 1 R5 Model

### ${\bf Contents}$

1.1	Model	1
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	1.2.1 Reverse Engineering Wang 1994 Model	2
• W	ang 1994 model simulations	
	- Blocking T-Type $Ca^{2+}$ channel destroys LTS	
	- Removing h current does not affect dynamics. H current is not necessary in the mode	el
• R	esting membrane potential of R5 is $\approx -49mV$ [3].	

## 1.1 Model

#### Appendix 1.2

#### Reverse Engineering Wang 1994 Model 1.2.1

Outward (I >0): I , I , (I,

IT - B, LTS

I, -?

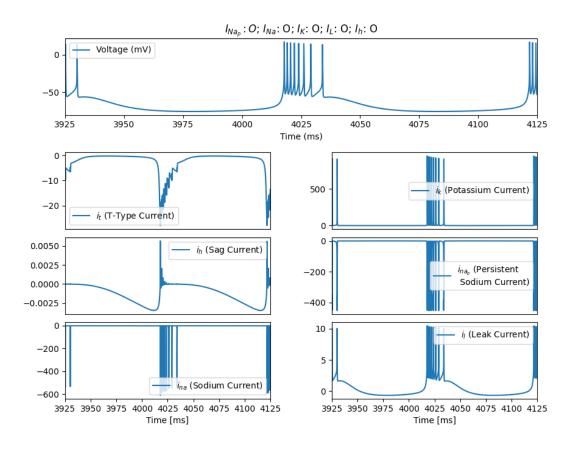
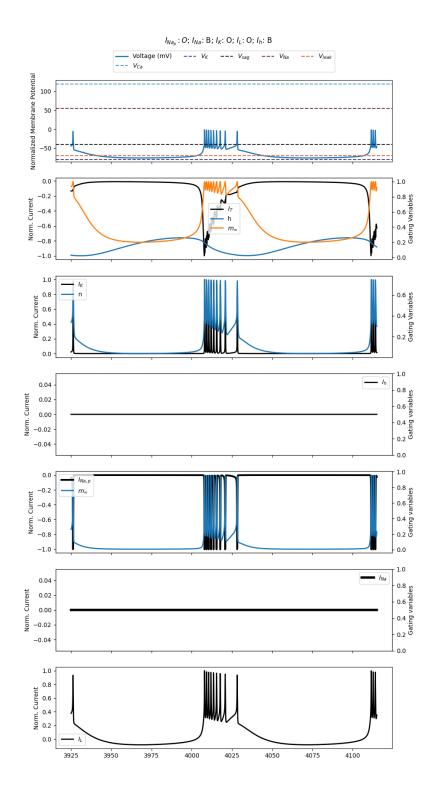


Figure 1



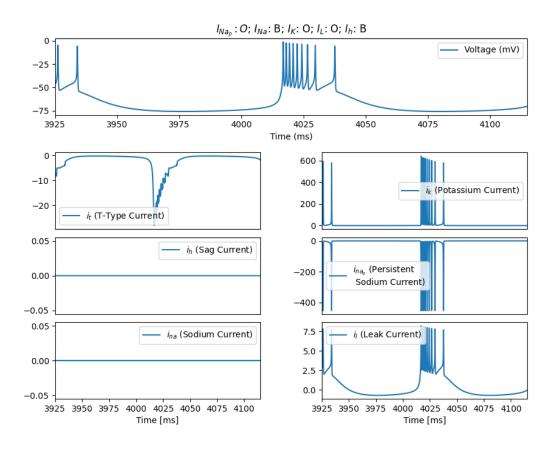


Figure 2

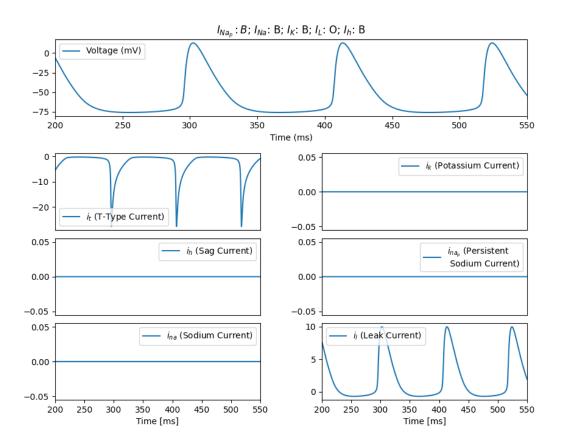


Figure 3