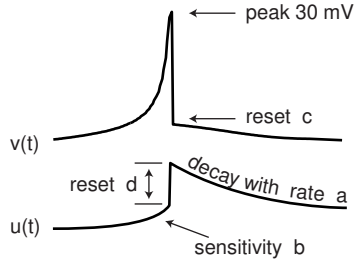
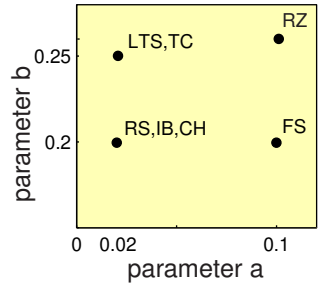
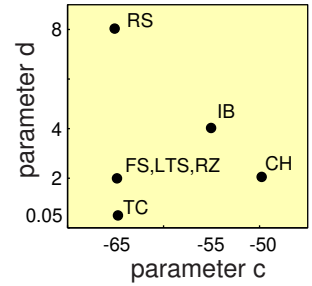
$v' = 0.04v^2 + 5v + 140 - u + I$

$u' = a(bv - u)$

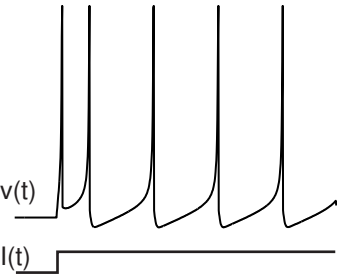
if $v = 30$ mV,
then $v \leftarrow c$, $u \leftarrow u + d$



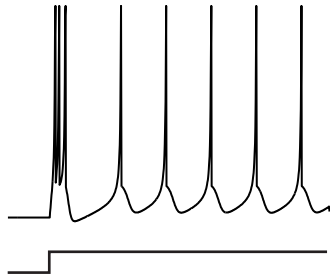




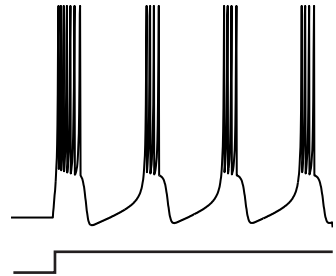
regular spiking (RS)



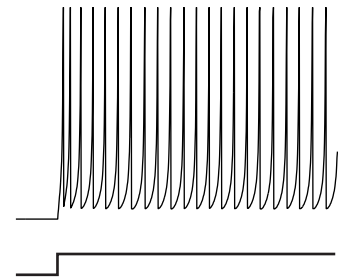
intrinsically bursting (IB)



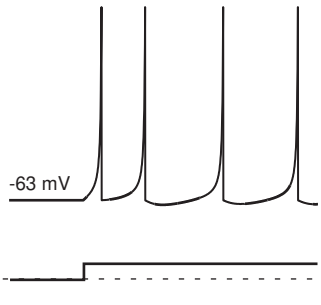
chattering (CH)



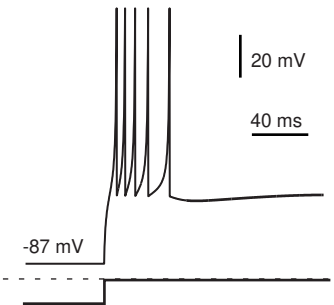
fast spiking (FS)



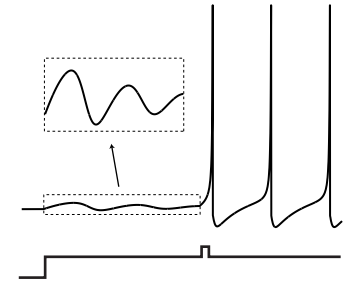
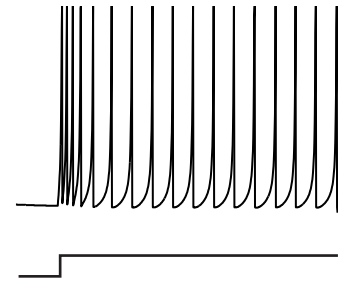
thalamo-cortical (TC)



thalamo-cortical (TC)



resonator (RZ)



low-threshold spiking (LTS)