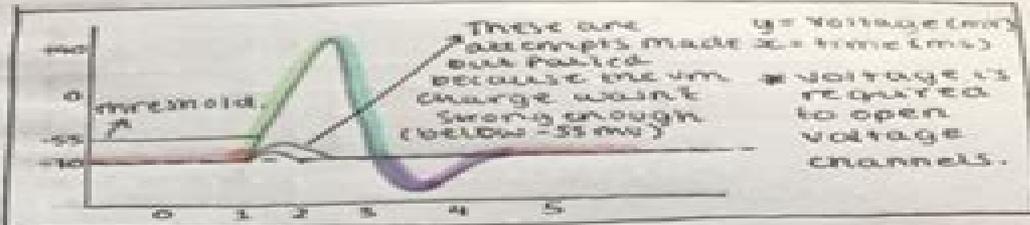


ACTION POTENTIAL

- K^+ leak channel
- Voltage-gated Na^+
- Voltage-gated K^+ channel
- + positive charge
- negative charge



1. RESTING STATE -70 mV

When the synaptic membrane is at resting potential both Na^+ and K^+ voltage gates are shut. The K^+ leak channel is always open so doesn't require voltage to open. INSIDE IS negative charge. OUTSIDE IS positive.



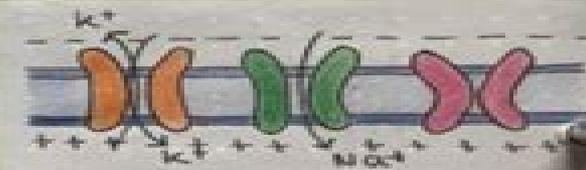
2. STIMULUS +40 mV threshold -65

A stimulus for example, could be a change in temperature on the skin (too hot) and electrical impulse is sent from neuron to neuron in the form of neurotransmitters inside a vesicle. This contains voltage to open up Na^+ channels.



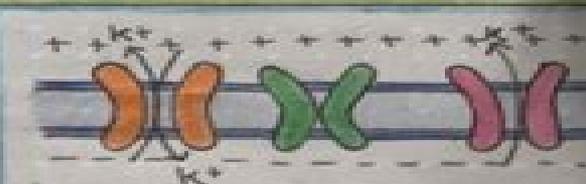
3. DEPOLARISATION -70 mV - 61 mV

If there is enough neurotransmitter to transmit voltage above -55 mV. The Na^+ voltage channels open so the Na^+ from outside enters inside making the inside more positive than the outside.



4. REPOLARISATION +40 mV - -70 mV

When the outside becomes very 'negative' this causes the Na^+ voltage channels to shut so the K^+ voltage channels can open to make the outside more positive and the inside negative.



5. UNDERSHOOT PHASE: under -70 mV

This is when the outside and inside reach a electrochemical equilibrium (at -70 mV) but carries on increasing the inside negativity to ensure the signal has been fully transmitted. The inside is extremely negative.



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