

ACTION POTENTIAL

Name:

Group:

Date:

1. Goal of the experiment:

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2. Measurements of the dependence of stimulus threshold value on the stimulus duration time:

	STIMULUS DURATION TIME, ms											
	0.4	0.8	1.2	1.5	2.0	2.5	3.0	4.0	5.0	6.5	8.0	
STIMULI AMPLITUDES, $\mu\text{A}/\text{cm}^2$												

3. Summary table of experimental results:

Stimulus duration time, ms	0.4	0.8	1.2	1.5	2.0	2.5	3.0	4.0	5.0	6.5	8.0
Threshold value, $\mu\text{A}/\text{cm}^2$											

Make a graph of strength-duration curve (threshold stimulus amplitude versus stimulus duration time).

Rheobase R value read off from the graph:

R =

Chronaxie C value read off from the graph:

C =

Conclusions:

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4. The temporal summation (the experimental procedure 3).

	stimuli duration, ms	stimuli amplitude, $\mu\text{A}/\text{cm}^2$	time delay, ms
1	1.0		
2			
3			

Conclusions:

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5. The refractory period.

#1 stimulus		delay, ms	#2 stimulus	
duration, ms	amplitude, $\mu\text{A}/\text{cm}^2$		duration, ms	threshold amplitude, $\mu\text{A}/\text{cm}^2$
1.0 ms			1.0	

Conclusions:

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