

Quiz 5.1: Neuron Stimulation

Spike timing in vitro and in vivo

0 points possible (ungraded)

☒ Reliability of spike timing can be assessed by repeating several times the same stimulus ✓

☐ Spike timing in vitro is more reliable under injection of constant current than with flactuating current

☒ Spike timing in vitro is less reliable under injection of constant current than with flactuating current ✓

☒ For the exact same input current, spike timing in vitro is more reliable than spike timing in vivo step不行，要flactuating的

☐ Nothing is known about spike timing in humans in vivo



Submit

You have used 1 of 1 attempt

 Answers are displayed within the problem

Interspike Interval Distribution (ISI)

0 points possible (ungraded)

☐ An isolated deterministic leaky integrate-and-fire neuron driven by a constant current can have a broad ISI

☒ A deterministic leaky integrate-and-fire embedded into a randomly connected network of integrate-and-fire can have a broad ISI

☐ AN isolated deterministic Hodgkin-Huxley model as in week 2 driven by a constant current can have a broad ISI



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✓ Correct

Discussion

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