Quiz 1.1: Neuron properties

Signal Transmission

0 points possible (ungraded)

Note that in the following check box questions, there might be more than one correct answer. You must select all the options that apply.

1. A cortical neuron sends out signals which are called ...

- [ ] Action potentials ✔
- [ ] Spikes ✔
- [x] Postsynaptic potential

✖

Submit   You have used 1 of 1 attempt

ℹ Answers are displayed within the problem

Dendrite

0 points possible (ungraded)

2. A dendrite is a part of the neuron ...

- [ ] where synapses are located ✔
- [x] which collects signals from other neurons ✔
- [ ] along which spikes are sent to other neurons

✖

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Threshold hitting

0 points possible (ungraded)

3. In an integrate-and-fire model, when the voltage hits the threshold ...

- [x] the neuron fires a spike ✔
- [ ] the neuron can enter a state of refractoriness ✔
- [ ] the voltage is reset ✔
- [ ] the neuron explodes

✖

Submit   You have used 1 of 1 attempt

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Neuron in VIVO

0 points possible (ungraded)

4. In vivo, a typical cortical neuron exhibits ...

☑ a rare output spikes

☐ regular firing activity

☑ a fluctuating membrane potential

✔

Submit   You have used 1 of 1 attempt

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Discussion

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