

# Quiz 3.1: Channels and synapses

## AMPA channel

0 points possible (ungraded)

- ☒ AMPA channels are activated by AMPA.
- ☐ If an AMPA channel is open, AMPA can pass through the channel.
- ☐ If an AMPA channel is open, glutamate can pass through the channel.
- ☒ If an AMPA channel is open, potassium can pass through the channel.
- ☒ The AMPA channel is a transmitter-gated ion channel.
- ☒ AMPA channels are often found in a synapse.






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You have used 1 of 1 attempt

 Answers are displayed within the problem

## Synapse types

0 points possible (ungraded)

- ☒ In the subthreshold regime, excitatory synapses always depolarize the membrane, i.e, shift the membrane potential to more positive values. 
- ☐ In the subthreshold regime, inhibitory synapses always hyperpolarize the membrane, i.e, shift the membrane potential to more negative values.
- ☒ Excitatory synapses in cortex often contain AMPA receptors. 
- ☐ Excitatory synapses in cortex often contain NMDA receptors. 



glutamate包含AMPA和NMDA

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## Discussion

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