

Development and Cognitive Disorders

Author: David Corey

Instructor @MIT

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1. Development and Cognitive Disorders

4. Chapter: Development and Cognitive Disorders

1. Development and Cognitive Disorders Questions

4.1.1. Location of sperm entry

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Location of sperm entry

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

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Question: [Location of sperm entry 6 pt Match the following refers to Xenopus](#)

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4.1.2. Will become endoderm

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Will become endoderm

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

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4.1.3. Is a hollow sphere of cells

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Is a hollow sphere of cells

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Is a hollow sphere of cells 6 pt Match the following refers to Xenopus](#)

Flashcards:

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4.1.4. Contains the three germ layers in the right position

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Contains the three germ layers in the right position

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Contains the three germ layers in the right 6 pt Match following](http://www.quizover.com/question/contains-the-three-germ-layers-in-the-right-6-pt-match-following)

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4.1.5. Has an uneven distribution of particles

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Has an uneven distribution of particles

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Has an uneven distribution of particles 6 pt Match the following](#)

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4.1.6. Induces the formation of the neural tube

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Induces the formation of the neural tube

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Induces the formation of the neural tube 6 pt Match following refers](#)

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4.1.7. Generates the dorsal-ventral axis

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Generates the dorsal-ventral axis

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Generates the dorsal-ventral axis 6 pt Match following refers to](#)

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4.1.8. Generates the anterior-posterior axis

Author: David Corey

(6 pt) Match the following (refers to Xenopus development):

Generates the anterior-posterior axis

Please choose only one answer:

- Egg cytoplasm
- Animal pole
- Vegetal pole
- Entry of sperm
- Dorsal lip of the blastopore
- Blastula
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Generates the anterior-posterior axis 6 pt Match following refers](#)

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4.1.9. (4 pt) Which are true statements about the development of the cereb...

Author: David Corey

(4 pt) Which are true statements about the development of the cerebral cortex:

Please choose only one answer:

- Cell division processes control brain size
- Neurons arise close to their final destination in the brain so that they only have to migrate short distances.
- The deepest cortical layers are formed later in development than shallow layers
- Neurons can only migrate up to 100 times their body length due to the high metabolic cost of the process

Check the answer of this question online at QuizOver.com:

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4.1.10. (5 pt) Circle any mechanism used to change how an axon responds to ...

Author: David Corey

(5 pt) Circle any mechanism used to change how an axon responds to cues in its environment

Please choose all the answers that apply:

- Increase in cAMP levels
- Decrease in cGMP levels
- Target induced changes in gene expression
- Local protein synthesis.
- Changes in the composition of receptors in the growth cone.

Check the answer of this question online at QuizOver.com:

Question: [5 pt Circle any mechanism used to change by Dr. David Corey @MIT](#)

Flashcards:

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4.1.11. (5 pt) Circle all true statements:

Author: David Corey

(5 pt) Circle all true statements:

Please choose all the answers that apply:

- Axons navigate distances as long as a meter to find their final targets.
- Slit signaling regulates whether netrin is attractive or repulsive.
- Semaphorins are secreted repellents for a subset of neurons in the DRG.
- Axon guidance molecules use small GTPases which regulate the distribution of microtubules in the growth cone.
- Retinotopic maps form in part because retinal ganglion cells find low levels of Ephrin attractive but high levels of Ephrin are repulsive.

Check the answer of this question online at QuizOver.com:

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4.1.12. (4 pt) Circle all true statements:

Author: David Corey

(4 pt) Circle all true statements:

Please choose all the answers that apply:

- CNS axons fail to regenerate because axon guidance cues are not present in the adult nervous system.
- The Nogo receptor binds MAG and Omgp, which are present in CNS myelin.
- All axons grow at the same basic rate.
- Oligodendrocytes produce inhibitory factors such as Nogo66, which can induce growth cone collapse in vitro.

Check the answer of this question online at QuizOver.com:

Question: [4 pt Circle all true statements by Dr. David Corey @MIT Introduction](#)

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4.1.13. The motor neuron requires signals from the myotube to form its syna...

Author: David Corey

(8 pt) In class, we discussed various models for the development of the neuromuscular junction (NMJ), and discovered that no simple model seems to explain all of the experiments.

Please list one experimental observation which is INCONSISTENT with each of the following hypotheses.

The motor neuron requires signals from the myotube to form its synaptic machinery.

- Growth cones release ACh spontaneously and in response to electrical stimulation before they contact myotubes.

Check the answer of this question online at QuizOver.com:

Question: [The motor neuron requires signals from the 8 pt In class we discussed](#)

Flashcards:

<http://www.quizover.com/flashcards/the-motor-neuron-requires-signals-from-the-8-pt-in-class-we-discussed?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/the-motor-neuron-requires-signals-from-the-8-pt-in-class-we-discussed?pdf=3044>

4.1.14. The myotube requires signals from the motor neuron in order to clus...

Author: David Corey

(8 pt) In class, we discussed various models for the development of the neuromuscular junction (NMJ), and discovered that no simple model seems to explain all of the experiments.

Please list one experimental observation which is INCONSISTENT with each of the following hypotheses.

The myotube requires signals from the motor neuron in order to cluster its synaptic components (e.g. AChRs).

- Cultured myotubes cluster postsynaptic receptors in the absence of motor neurons.

Check the answer of this question online at QuizOver.com:

Question: [The myotube requires signals from the motor 8 pt In class we discussed](#)

Flashcards:

<http://www.quizover.com/flashcards/the-myotube-requires-signals-from-the-motor-8-pt-in-class-we-discussed?pdf=3044>

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4.1.15. The motor neuron randomly contacts the myotube and then induces the...

Author: David Corey

(8 pt) In class, we discussed various models for the development of the neuromuscular junction (NMJ), and discovered that no simple model seems to explain all of the experiments.

Please list one experimental observation which is INCONSISTENT with each of the following hypotheses.

The motor neuron randomly contacts the myotube and then induces the myotube to cluster synaptic components (e.g. AChRs).

- Tello: after nerve lesion motor fiber clusters are maintained and new nerves growing onto the fiber synapse on these old clusters.

Check the answer of this question online at QuizOver.com:

Question: [The motor neuron randomly contacts the myotube 8 pt In class we discussed](#)

Flashcards:

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4.1.16. The myotube generates postsynaptic clusters (e.g. AChRs) autonomous...

Author: David Corey

(8 pt) In class, we discussed various models for the development of the neuromuscular junction (NMJ), and discovered that no simple model seems to explain all of the experiments.

Please list one experimental observation which is INCONSISTENT with each of the following hypotheses.

The myotube generates postsynaptic clusters (e.g. AChRs) autonomously, and the motor neuron is stabilized when it encounters the postsynaptic density.

- Anderson and Cohen: although cultured myotubes cluster postsynaptic receptors autonomously, co-cultured motor neurons contact the myotubes at sites without clusters and new clusters form at the site of neuronal contact.

Check the answer of this question online at QuizOver.com:

Question: [The myotube generates postsynaptic clusters 8 pt In class we discussed](#)

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4.1.17. (5 pt) Indicate which of the following statements about myelination...

Author: David Corey

(8 pt) In class, we discussed various models for the development of the neuromuscular junction (NMJ), and discovered that no simple model seems to explain all of the experiments.

Please list one experimental observation which is INCONSISTENT with each of the following hypotheses.

(5 pt) Indicate which of the following statements about myelination are true:

- A Schwann cell forms only a single internode.
- An oligodendrocyte is able to form internodes on multiple different axons.
- Schwann cells are located in the central nervous system; oligodendrocytes are in the peripheral nervous system.
- Oligodendrocytes originate from peripheral blood monocytes which migrate into the CNS.
- Oligodendrocytes secrete factors which are able to cluster axonal nodal proteins (Na⁺ channels, K⁺ channels, etc.) in cultured axons.

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Question: [5 pt Indicate which of the following statements 8 In class we discussed](#)

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4.1.18. _____ Mitochondrial breakdown is observed.

Author: David Corey

(5 pt) Indicate whether each statement is a feature of apoptosis (A), necrosis (N):

_____ Mitochondrial breakdown is observed.

Please choose only one answer:

- apoptosis (A)
- necrosis (N)

Check the answer of this question online at QuizOver.com:

Question: [Mitochondrial breakdown is observed. 5 pt Indicate whether each statement](#)

Flashcards:

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4.1.19. _____ Chromatin pattern in nucleus is disturbed.

Author: David Corey

(5 pt) Indicate whether each statement is a feature of apoptosis (A), necrosis (N):

_____ Chromatin pattern in nucleus is disturbed.

Please choose only one answer:

- apoptosis (A)
- necrosis (N)

Check the answer of this question online at QuizOver.com:

Question: [Chromatin pattern in nucleus is disturbed 5 pt Indicate whether each](#)

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4.1.20. _____ Following swelling, membrane breaks down.

Author: David Corey

(5 pt) Indicate whether each statement is a feature of apoptosis (A), necrosis (N):

_____ Following swelling, membrane breaks down.

Please choose only one answer:

- apoptosis (A)
- necrosis (N)

Check the answer of this question online at QuizOver.com:

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4.1.21. _____ Can be regulated by neurotrophins.

Author: David Corey

(5 pt) Indicate whether each statement is a feature of apoptosis (A), necrosis (N):

_____ Can be regulated by neurotrophins.

Please choose only one answer:

- apoptosis (A)
- necrosis (N)

Check the answer of this question online at QuizOver.com:

Question: [Can be regulated by neurotrophins. 5 pt Indicate whether each statement](#)

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4.1.22. _____ Cells condense.

Author: David Corey

(5 pt) Indicate whether each statement is a feature of apoptosis (A), necrosis (N):

_____ Cells condense.

Please choose only one answer:

- apoptosis (A)
- necrosis (N)

Check the answer of this question online at QuizOver.com:

Question: [Cells condense. 5 pt Indicate whether each statement is by Dr. David](#)

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4.1.23. (4 pt) Circle all true statements:

Author: David Corey

(4 pt) Circle all true statements:

Please choose all the answers that apply:

- Apoptosis is a natural process that is regulated by a balance between pro-survival Bcl-2 like proteins and pro-apoptotic Bax like proteins.
- Axons compete for limiting amounts of neurotrophins produced by target cells.
- The neurotrophic hypothesis states that axons fail to regenerate because of the absence of neurotrophins in the central nervous system.
- NGF and BDNF both induce dephosphorylation of Trk receptors.

Check the answer of this question online at QuizOver.com:

Question: [4 pt Circle all true statements by Dr. David Corey @MIT Introduction](#)

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4.1.24. (5 pt) Indicate which of the following is/are true of neuronal stem...

Author: David Corey

(5 pt) Indicate which of the following is/are true of neuronal stem cells.

Please choose all the answers that apply:

- Though in vivo neurogenesis is limited to the subventricular zone, in vitro studies have shown that there are neuronal precursors in many other brain regions.
- To be classified as a stem cell, a cell must have unlimited capacity for self-renewal.
- Neuronal stem cells are not as well studied as hematopoietic stem cells because of the lack of a true reconstitution assay.
- Stem cells can be classified as totipotent or multipotent.
- It is not yet possible to induce neurogenesis in regions of the adult brain where it does not normally occur.

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Question: [5 pt Indicate which of the following is by Dr. David Corey @MIT Introduction](#)

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4.1.25. (6 pt) Consider the pathway from temporal retina of the left eye an...

Author: David Corey

(6 pt) Consider the pathway from temporal retina of the left eye and the nasal retina of the right eye through the LGN and to visual cortex. Using a solid line for the left eye projection and a dashed line for the right eye projection, draw a schematic picture of the retinogeniculate projection and thalamocortical projection (including the arbor) from cats of the following ages.

Indicate the layer of cortex that LGN neurons project to:

- a) late prenatal (e50)
 - b) 3 years old
 - c) 3 years old, with the first 6 months with the left eye sutured shut.
- 1) correct crossing of ganglion axons (nasal crosses, temporal does not)
 - 2) LGN projects to layer IV of cortex.
 - 3) LGN layer segregation in newborn
 - 4) cortical arbor overlap in newborn*
 - 5) LGN layer segregation in 3 year old
 - 6) cortical arbor segregation in 3 year old
 - 7) LGN layer shrinkage of left, expansion of right in MD
 - 8) cortical arbor shrinkage of left, expansion of right in MD.

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4.1.26. (6 pt) Circle all true statements.

Author: David Corey

(6 pt) Circle all true statements.

Please choose all the answers that apply:

- The cellular swelling which occurs during ischemia is due to Na^+ and Cl^- .
- During ischemia, increases in intracellular calcium contribute to cell death
- A decrease in reactive oxygen species is a sign of ischemia as the mitochondrial oxidative phosphorylation machinery slows down
- Within 45 minutes of a stroke the ischemic damage is irreversible and so recovery of CNS function is not possible
- A majority of strokes are due to intracerebral hemorrhage
- "Lacunar" strokes are due to defects in small cerebral vessels

Check the answer of this question online at QuizOver.com:

Question: [6 pt Circle all true statements. by Dr. David Corey @MIT Introduction](#)

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4.1.27. (5 pt) Circle all true statements about Alzheimer's Disease:

Author: David Corey

(5 pt) Circle all true statements about Alzheimer's Disease:

Please choose all the answers that apply:

- Plaques are present in the neuropil, while tangles occur inside the neuronal cell body.
- Cleavage by gamma secretase is essential for production of A β , the major component of plaques.
- Deposition of A β is a clear indicator of the changes in cognition associated with Alzheimer's Disease.
- APP is a transmembrane protein whose biochemical functions are unknown.
- The pathology of Alzheimer's Disease is usually preceded by obvious changes in cognition and behavior.

Check the answer of this question online at QuizOver.com:

Question: [5 pt Circle all true statements about Alzheimer by Dr. David Corey](#)

Flashcards:

<http://www.quizover.com/flashcards/5-pt-circle-all-true-statements-about-alzheimer-by-dr-david-corey?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/5-pt-circle-all-true-statements-about-alzheimer-by-dr-david-corey?pdf=3044>

4.1.28. False memories activate neurons in the hippocampus

Author: David Corey

(4 pt) Mark whether each of these statements about memory is true or false.

If the statement is false, rewrite the statement correctly.

False memories activate neurons in the hippocampus

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [False memories activate neurons in the hippocampus 4 pt Mark whether](#)

Flashcards:

<http://www.quizover.com/flashcards/false-memories-activate-neurons-in-the-hippocampus-4-pt-mark-whether?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/false-memories-activate-neurons-in-the-hippocampus-4-pt-mark-whether?pdf=3044>

4.1.29. Memories can be distorted by misattribution, suggestibility or laps...

Author: David Corey

(4 pt) Mark whether each of these statements about memory is true or false.

If the statement is false, rewrite the statement correctly.

Memories can be distorted by misattribution, suggestibility or lapses in attention

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Memories can be distorted by misattribution 4 pt Mark whether each](#)

Flashcards:

<http://www.quizover.com/flashcards/memories-can-be-distorted-by-misattribution-4-pt-mark-whether-each?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/memories-can-be-distorted-by-misattribution-4-pt-mark-whether-each?pdf=3044>

4.1.30. Structural encoding of information is the most effective way to rem...

Author: David Corey

(4 pt) Mark whether each of these statements about memory is true or false.

If the statement is false, rewrite the statement correctly.

Structural encoding of information is the most effective way to remember

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Structural encoding of information is the 4 pt Mark whether each](#)

Flashcards:

<http://www.quizover.com/flashcards/structural-encoding-of-information-is-the-4-pt-mark-whether-each?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/structural-encoding-of-information-is-the-4-pt-mark-whether-each?pdf=3044>

4.1.31. Implicit and explicit forms of memory are regulated by the hippocam...

Author: David Corey

(4 pt) Mark whether each of these statements about memory is true or false.

If the statement is false, rewrite the statement correctly.

Implicit and explicit forms of memory are regulated by the hippocampus and basal ganglia respectively

Please choose only one answer:

- True
- False

Check the answer of this question online at QuizOver.com:

Question: [Implicit and explicit forms of memory are 4 pt Mark whether each](#)

Flashcards:

<http://www.quizover.com/flashcards/implicit-and-explicit-forms-of-memory-are-4-pt-mark-whether-each?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/implicit-and-explicit-forms-of-memory-are-4-pt-mark-whether-each?pdf=3044>

4.1.32. (6 pt) Depicted are a series of peri-stimulus time histograms (PSTH...

Author: David Corey

(6 pt) Depicted are a series of peri-stimulus time histograms (PSTHs) of the response of a dopaminergic neuron in the substantia nigra pars compacta. Match each of the following PSTHs with the description of the experimental situation that would give rise to it. As a reminder, a PSTH is a plot of the average firing rate of the neuron over time. Firing rate is plotted on the ordinate and time is on the abscissa. The baseline firing rate is shown as a grey line. In A, for example, the neuron exhibits a brief increase in its firing rate (a "burst") after an event at time t_2 .

Check the answer of this question online at QuizOver.com:

Question: [6 pt Depicted are a series of peri-stimulus by Dr. David Corey @MIT](#)

Flashcards:

<http://www.quizover.com/flashcards/6-pt-depicted-are-a-series-of-peri-stimulus-by-dr-david-corey-mit?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/6-pt-depicted-are-a-series-of-peri-stimulus-by-dr-david-corey-mit?pdf=3044>

4.1.33. May be caused by abnormal dispersion of GABAergic neurons in the co...

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

May be caused by abnormal dispersion of GABAergic neurons in the cortex

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [May be caused by abnormal dispersion of 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/may-be-caused-by-abnormal-dispersion-of-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/may-be-caused-by-abnormal-dispersion-of-13-pt-from-the-wide-range?pdf=3044>

4.1.34. Has been conclusively shown to be a disease of the peripheral immun...

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Has been conclusively shown to be a disease of the peripheral immune system

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Has been conclusively shown to be a disease 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/has-been-conclusively-shown-to-be-a-disease-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/has-been-conclusively-shown-to-be-a-disease-13-pt-from-the-wide-range?pdf=3044>

4.1.35. Affects both Gaba-R and NMDA-R

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Affects both Gaba-R and NMDA-R

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Affects both Gaba-R and NMDA-R 13 pt From the wide range of topics](#)

Flashcards:

<http://www.quizover.com/flashcards/affects-both-gaba-r-and-nmda-r-13-pt-from-the-wide-range-of-topics?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/affects-both-gaba-r-and-nmda-r-13-pt-from-the-wide-range-of-topics?pdf=3044>

4.1.36. Caused by abnormal regulation of axon guidance signals

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Caused by abnormal regulation of axon guidance signals

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Caused by abnormal regulation of axon guidance 13 pt From the wide](#)

Flashcards:

<http://www.quizover.com/flashcards/caused-by-abnormal-regulation-of-axon-guidance-13-pt-from-the-wide?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/caused-by-abnormal-regulation-of-axon-guidance-13-pt-from-the-wide?pdf=3044>

4.1.37. May be due to defects in oligodendrocytes

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

May be due to defects in oligodendrocytes

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [May be due to defects in oligodendrocytes 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/may-be-due-to-defects-in-oligodendrocytes-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/may-be-due-to-defects-in-oligodendrocytes-13-pt-from-the-wide-range?pdf=3044>

4.1.38. Caused by mutations in components of the cell death pathway

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Caused by mutations in components of the cell death pathway

Please choose all the answers that apply:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Caused by mutations in components of the 13 pt From wide range topics](#)

Flashcards:

<http://www.quizover.com/flashcards/caused-by-mutations-in-components-of-the-13-pt-from-wide-range-topics?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/caused-by-mutations-in-components-of-the-13-pt-from-wide-range-topics?pdf=3044>

4.1.39. Depletes energy supplies and leads to accumulation of glutamate in ...

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Depletes energy supplies and leads to accumulation of glutamate in the extracellular space

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Depletes energy supplies and leads to accumulation 13 pt From the](#)

Flashcards:

<http://www.quizover.com/flashcards/depletes-energy-supplies-and-leads-to-accumulation-13-pt-from-the?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/depletes-energy-supplies-and-leads-to-accumulation-13-pt-from-the?pdf=3044>

4.1.40. Occurs when convergent extension fails

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Occurs when convergent extension fails

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Occurs when convergent extension fails 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/occurs-when-convergent-extension-fails-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/occurs-when-convergent-extension-fails-13-pt-from-the-wide-range?pdf=3044>

4.1.41. Caused by an abnormal form of BDNF that is not properly regulated b...

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Caused by an abnormal form of BDNF that is not properly regulated by activity

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Caused by an abnormal form of BDNF that 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/caused-by-an-abnormal-form-of-bdnf-that-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/caused-by-an-abnormal-form-of-bdnf-that-13-pt-from-the-wide-range?pdf=3044>

4.1.42. Activation of serotonergic neurons which project throughout the brain

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Activation of serotonergic neurons which project throughout the brain

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Activation of serotonergic neurons which 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/activation-of-serotonergic-neurons-which-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/activation-of-serotonergic-neurons-which-13-pt-from-the-wide-range?pdf=3044>

4.1.43. Reveal the presence of a critical period in development

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Reveal the presence of a critical period in development

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Reveal the presence of a critical period 13 pt From wide range topics](#)

Flashcards:

<http://www.quizover.com/flashcards/reveal-the-presence-of-a-critical-period-13-pt-from-wide-range-topics?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/reveal-the-presence-of-a-critical-period-13-pt-from-wide-range-topics?pdf=3044>

4.1.44. Due to mutations in TrkA

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Due to mutations in TrkA

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Due to mutations in TrkA 13 pt From the wide range of topics covered](#)

Flashcards:

<http://www.quizover.com/flashcards/ue-to-mutations-in-trka-13-pt-from-the-wide-range-of-topics-covered?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/ue-to-mutations-in-trka-13-pt-from-the-wide-range-of-topics-covered?pdf=3044>

4.1.45. Is a disease of fear conditioning

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Is a disease of fear conditioning

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Is a disease of fear conditioning 13 pt From the wide range topics](http://www.quizover.com/question/is-a-disease-of-fear-conditioning-13-pt-from-the-wide-range-topics?pdf=3044)

Flashcards:

<http://www.quizover.com/flashcards/is-a-disease-of-fear-conditioning-13-pt-from-the-wide-range-topics?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/is-a-disease-of-fear-conditioning-13-pt-from-the-wide-range-topics?pdf=3044>

4.1.46. May be due to defects in Schwann cells

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

May be due to defects in Schwann cells

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [May be due to defects in Schwann cells 13 pt From the wide range](#)

Flashcards:

<http://www.quizover.com/flashcards/may-be-due-to-defects-in-schwann-cells-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/may-be-due-to-defects-in-schwann-cells-13-pt-from-the-wide-range?pdf=3044>

4.1.47. May be treated with β -adrenergic blockers in the future

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

May be treated with β -adrenergic blockers in the future

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [May be treated with -adrenergic blockers 13 pt From the wide range](http://www.quizover.com/question/may-be-treated-with-adrenergic-blockers-13-pt-from-the-wide-range?pdf=3044)

Flashcards:

<http://www.quizover.com/flashcards/may-be-treated-with-adrenergic-blockers-13-pt-from-the-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/may-be-treated-with-adrenergic-blockers-13-pt-from-the-wide-range?pdf=3044>

4.1.48. Is caused by loss of myelin in the peripheral nervous system

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Is caused by loss of myelin in the peripheral nervous system

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Is caused by loss of myelin in the peripheral 13 pt From wide range](http://www.quizover.com/question/is-caused-by-loss-of-myelin-in-the-peripheral-13-pt-from-wide-range?pdf=3044)

Flashcards:

<http://www.quizover.com/flashcards/is-caused-by-loss-of-myelin-in-the-peripheral-13-pt-from-wide-range?pdf=3044>

Interactive Question:

<http://www.quizover.com/question/is-caused-by-loss-of-myelin-in-the-peripheral-13-pt-from-wide-range?pdf=3044>

4.1.49. Induces formation of a glial scar

Author: David Corey

(13 pt) From the wide range of topics covered in the fourth block, you have learned a lot about how certain neurological disorders can arise.

Match each disease in the left column with a related statement about neurobiology in the right column.

More than one statement may be appropriate, not all statements need to be used, and statements can be used more than once.

Write the appropriate number(s) next to the disease in the first column.

Induces formation of a glial scar

Please choose only one answer:

- Alcoholism 3
- Cataracts 11
- Post traumatic stress disorder 13, 15
- Abnormal eye movements 4
- Hallucinogenic drugs 10
- Schizophrenia 1
- Loss of pain sensitivity 12
- Multiple sclerosis 5, 16
- Brain tumors 6
- Spina bifida 8
- Stroke 7
- ALS 6
- Spinal cord injury 17
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Induces formation of a glial scar 13 pt From the wide range topics](#)

Flashcards:

<http://www.quizover.com/flashcards/induces-formation-of-a-glial-scar-13-pt-from-the-wide-range-topics?pdf=3044>

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