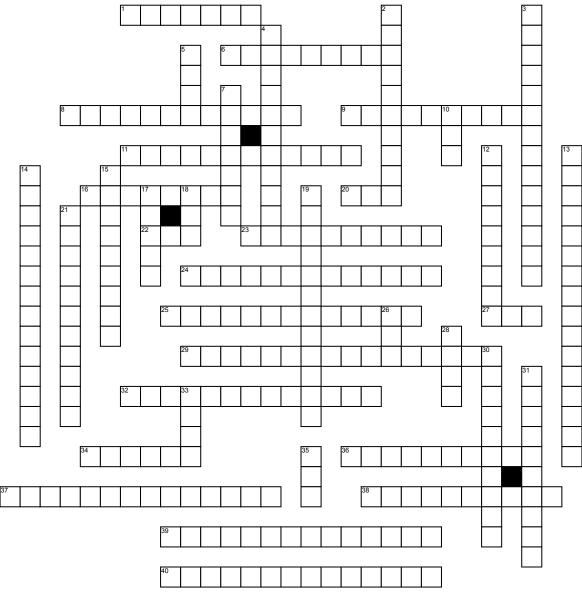
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## The Nervous System



## Across

- The neurotransmitter is released from the cell to travel across the space between these terminal fibers and the dendrites of the next cell
- 6. The tough fibrous outer covering of the meninges
- 8. A substance produced by the Schwann cells that coats the axons in the peripheral nervous system
- **9.** Connects neurons and blood vessels and form a structure
- 11. Contain the auditory and olfactory areas, and are where sequencing and memory occur
- **16.** Connects the pons and cerebellum with the hemispheres of the cerebrum
- 20. Composed of the nerves that extend from the brain and spinal cord to the tissues of the body
- 22. Mostly involuntary functions are controlled by this system. Involuntary muscles like the heart, glands and organs
- 23. The outer cell membrane of the Schwann cell
- 24. Functions in the physiological response to stress
- **25.** Responsible for vision
- 27. This system is voluntary in nature. These nerves collect information from and return instructions to the skin, muscles and joints
- 29. Small, rounded structures that participate in the ability to recognize people, places and objects that are stored in memory

- 32. The structure responsible for our sense of smell
- 34. The basic unit of the nervous system is
  36. Coordinates voluntary movement but is involuntary in its function
- 37. The surfaces of the hemispheres are covered with gray matter
- **38.** The 31 pairs of spinal nerves emerge from the spinal cord
- **39.** Carry impulses away from the brain and spinal cord
- **40.** Carry impulses to the brain and spinal cord
- Down
- 2. Skin surface areas supplied by a single afferent spinal nerve3. The thick band of nerve fibers that joins the two
- hemispheres of the cerebrum

  4. Contains the function of speech and the motor area that
- controls voluntary movement on the contralateral side of the body
- ${\bf 5.}$  Serves as a bridge between the medulla oblongata and the cerebellum
- 7. The basic unit of the nervous system
- ${\bf 10.}$  Composed of the brain and spinal cord. It connects the sensory and motor neurons
- Projections from the cell body, receive neural impluses
   Lowest part of the brainstem. Regulates heart rate, blood pressure and breathing

- **14.** Line the ventricles of the brain and produce cerebrospinal fluid
- 15. Perform an active protective function by engulfing and ingesting infectious organisms
- **17.** One of the most complex organs of the body
- The of the most complex organs of the body
   Second the complex organs of the body
   Second the most complex organs of the body
- 19. Control the sensations of touch and taste, and also control spatial perception
- 21. Responsible for empathy, interceptive awareness, and cognition
- **26.** Prevents or slows the passage of some drugs and disease-causing organisms to the CNS
- 28. The cells that provide supportive function
- 30. Extends from the medulla oblongata to the first lumbar vertebra
- 31. Spinal cord is composed of
- 33. A slender elongated projection that carries the neural impulse toward the next neuron
- 35. A clear fluid that protects the brain and spinal cord and removes any waste products and monitors for internal