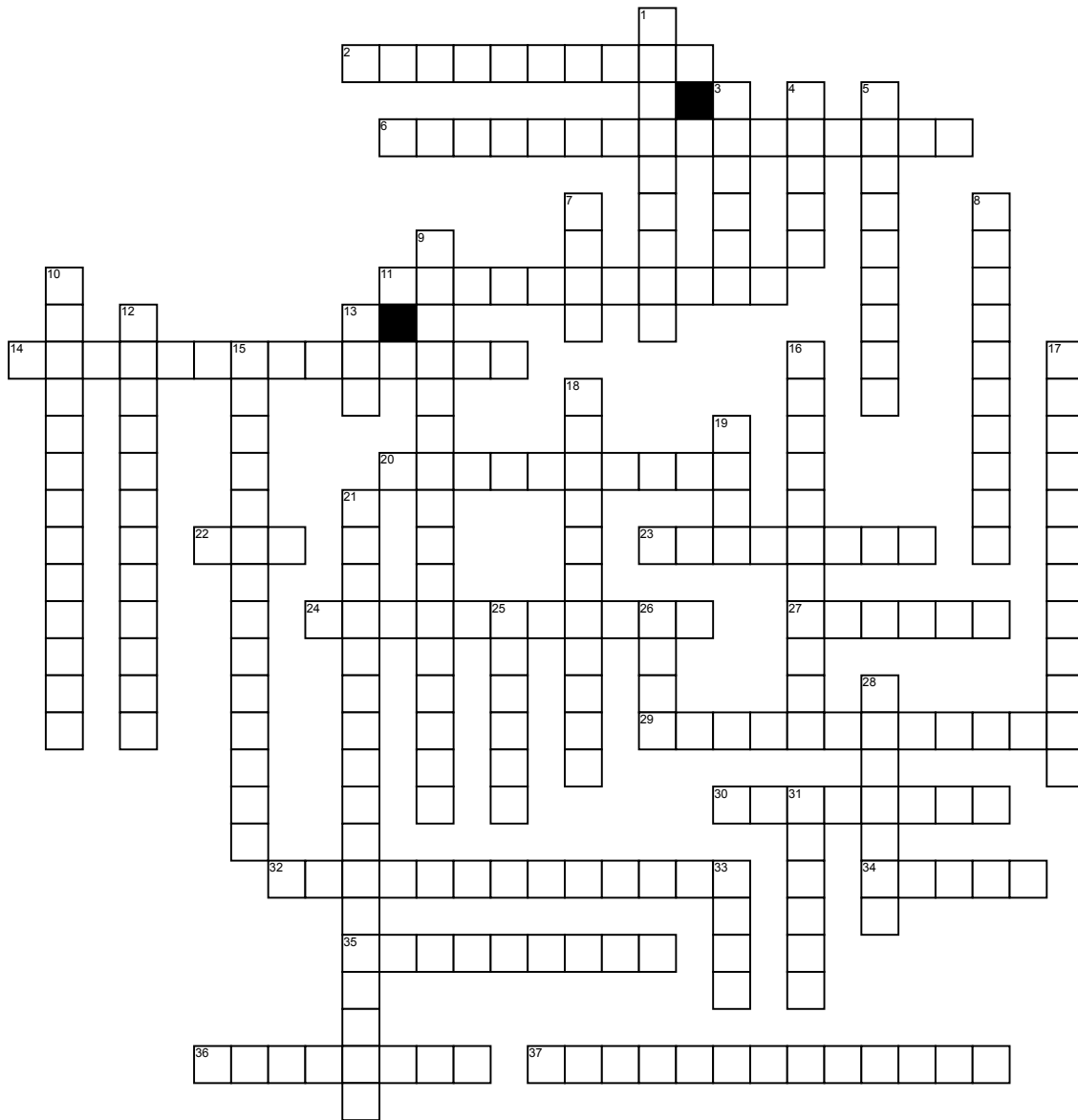


Neurophysiology



Across

2. Term describing the reduction of sensory output over time in the presence of a constant stimulus.
6. prevents an action potential from propagating backward (2 words)
11. Motor tract that can initiate movement and originates in the midbrain
14. Part of the action potential where the membrane is most permeable to sodium.
20. Brain area responsible for speech production (2 words)
22. This energy molecule can also serve as a neurotransmitter in the CNS. (abbreviation)
23. Sensory junction box of the diencephalon
24. A first order sensory neuron and all of its associated receptors. (2 words)
27. The generic name for a chemical messenger.
29. Somatosensory area of cerebral cortex. (2 words)
30. Sensory receptor of the inner ear (2 words)
32. Tract that carries pain information
34. The sense of taste dealing with savory flavors.
35. These types of neuronal connections modulate neurotransmitter release from a single terminal end.
36. These ions are perceived as sour tastants.
37. Part of the skeletal muscle cell that interacts with a lower motor neuron. (3 words)

Down

1. A single motor neuron and all of its associated muscle fibers. (2 words)
3. Condition caused by the lens focusing light in front of the retina
4. This adrenergic receptor usually leads to inhibition at the organ of effect (there is a number in the answer)
5. Ionotropic acetylcholine receptor
7. Depolarizing graded potential (abbreviation)
8. Swelling of the terminal end of an autonomic axon.
9. These are responsible for transmitting and amplifying vibrations of the tympanic membrane to the oval window. (2 words)
10. Autonomic neurons that originate from the spine or brainstem.
12. This category of reflex is characterized by an absence of interneurons.
13. This postsynaptic enzyme breaks down biogenic amines like serotonin in the synapse. (abbreviation)
15. The region of sensory space represented by a single first order sensory neuron. (2 words)
16. Premotor and primary motor regions of cortex are found in this area of the brain. (2 words)
17. This brain area is comprised of various cerebral and diencephalon structures and is responsible for emotions and motivation. (2 words)

18. These processing areas deep in the brain help filter out unwanted movement. (2 words)
19. One of the amino acid neurotransmitters (abbreviation)
21. Part of the action potential where the membrane is closest to the equilibrium potential of potassium.
25. The name for the layer of sensory receptors in the eye.
26. Opening additional potassium channels on the postsynaptic membrane would likely lead to one of these (abbreviation)
28. This ions of this chemical element are responsible for triggering the release of neurotransmitter.
31. We are born with this category of reflex.
33. Second messenger used in rod cells. (abbreviation)