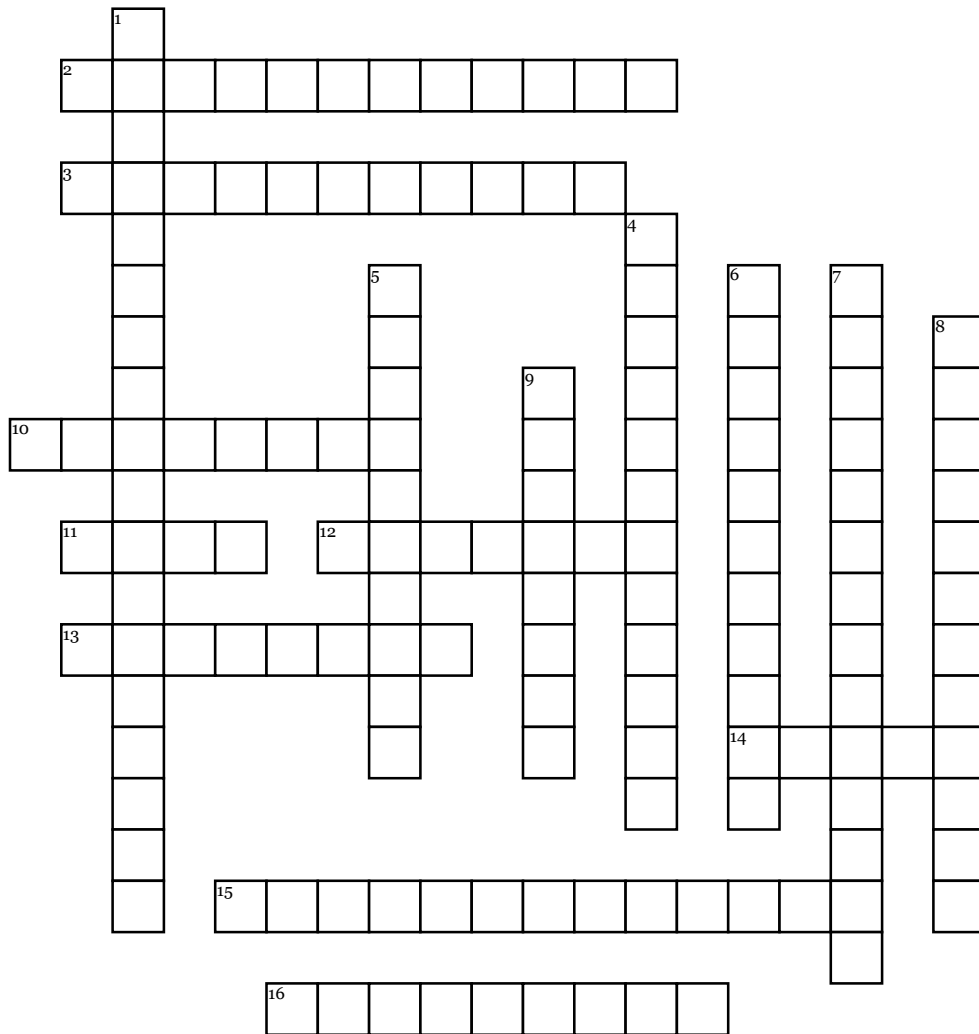


# Biology of the brain



## Across

**2.** primary area for hearing, understanding language, and processing smell

**3.** helps process explicit memories for storage

**10.** controls the part of your brain that interprets language

**11.** an outer coating of the brain stem that sits above the medulla; links the medulla and the thalamus; helps control muscle movement and is important for sleeping/awake (arousal not bow-chicka-wow-wow), alertness; involved in facial expressions

**12.** base of the BS; controls heartbeat and breathing

**13.** two lima- bean-sized neural clusters in the limbic system; linked to emotion

**14.** controls speech muscles via the motor cortex

**15.** primary area for processing visual information

**16.** Oldest part and central core of the brain, beginning where the spinal cord swell as it enters the skull; it's responsible for automatic survival functions

## Down

**1.** nerve network that travels through the BS and plays an important role in controlling arousal

**4.** processes sensory information including touch, temperature, and pain from body parts; association areas perceive objects

**5.** little brain; rear of the BS; processes sensory input and coordinates movement output and balance

**6.** Speaking and muscle movements, making plans/judgments, analytical skills

**7.** The intricate fabric of interconnected neural cells that covers the cerebral hemispheres. It is the body's ultimate control and information processing center

**8.** lying below the thalamus; directs eating, drinking, body temperature; helps govern endocrine system; linked to emotion and reward

**9.** brain's sensory switchboard; located on top of BS; directs messages to the sensory receiving areas in the cortex and transmits replies to the cerebellum and medulla

## Word Bank

cerebellum

thalamus

occipital lobe

temporal lobe

parietal lobe

pons

reticular formation

Brainstem

Cerebral Cortex

hypothalamus

wernicke

medulla

amygdala

hippocampus

Broca

frontal lobe