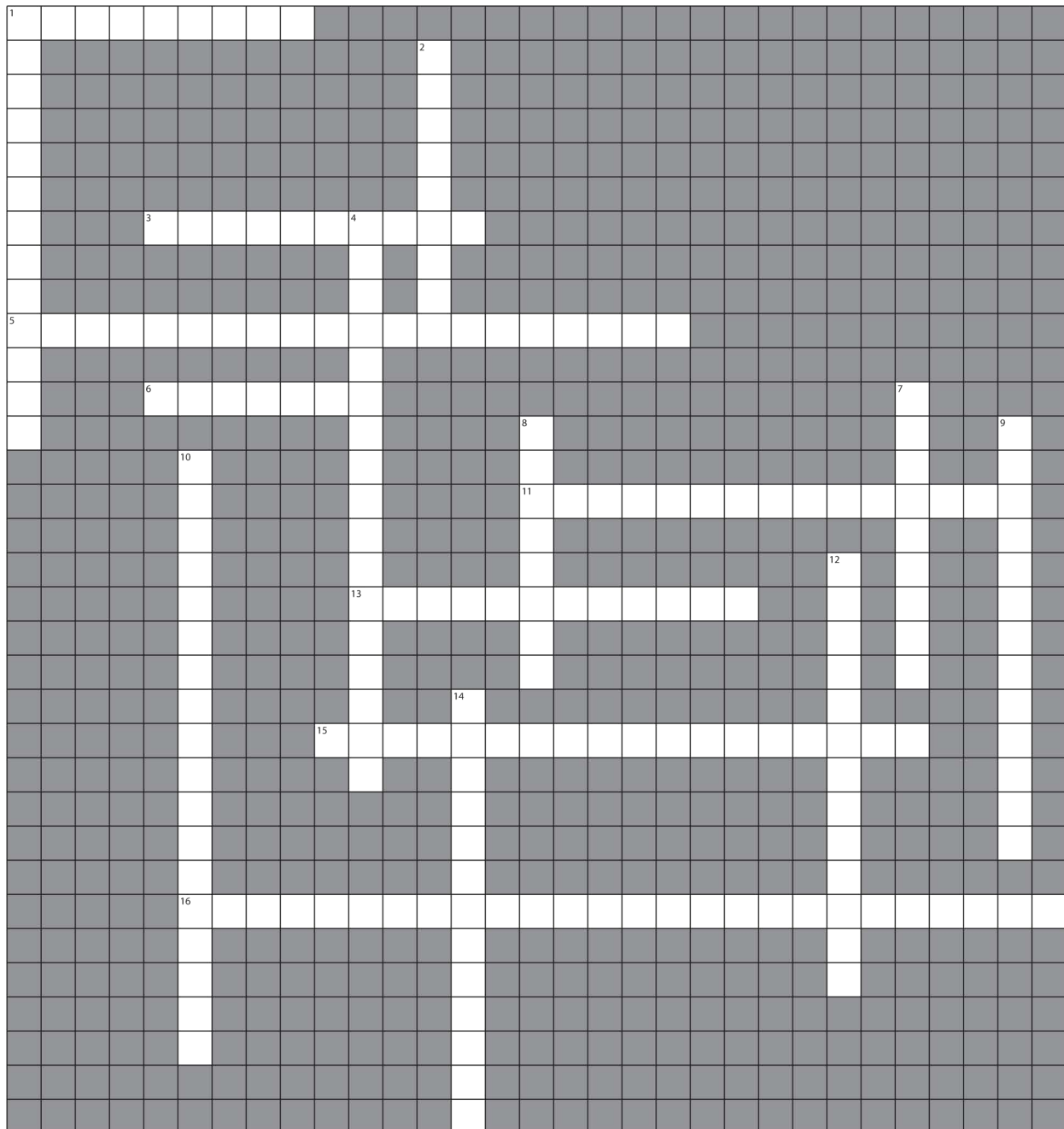


RESEARCH CROSSWORD

Difficulty: Hard



Across

1. The strength or volume of an acoustic or electromagnetic signal, usually measured in decibels.
3. An aversion to sound.
5. Also known as an EEG, a test that measures and records electrical brain activity.
6. A drug that can combine with receptors in the nervous system that cause a particular action to take place.
11. A branch of science dealing with subjective human perceptions of sounds.
13. Various techniques (PET, fMRI and MEG) used to either directly or indirectly image the structure and function of the brain.
15. Head or ear noises audible only to the sufferer. (2 words)
16. Attempts to solve emotional, behavioral or thought disorders through a psychotherapeutic approach. (3 words)

Down

1. The nerve that connects the cochlea (inner ear) to the cochlear nuclei- first stage of the auditory brain. It consists of the cochlear and vestibular nerves, and is responsible for hearing and balance. Also known as the eighth cranial nerve. (2 words)
2. A complex system of chambers and passageways of the inner ear; includes both the hearing and balance portions of the inner ear.
4. Head or ear noises audible to other people as well as the patient. (2 words)
7. Vital neurotransmitter in communication between nerve cells, making them more likely to send on a signal; excessive glutamate production, caused by stressed, loud noise or ototoxic chemicals, is thought to play a key role in the development of tinnitus.
8. Neurotransmitter (chemical) formed in the brain; released by neurons to stimulate neighboring neurons to successfully pass impulses from one cell to the next through CNS.
9. Measurements of vital organism activities, such as heartbeat and respiration. (2 words)
10. Principal midbrain nucleus of the auditory pathway; receives input from several more peripheral brainstem nuclei in this pathway and the auditory cortex. (2 words)
12. A continuous sounds with a well-defined frequency; heard as ringing, buzzing, chirping. (2 words)
14. Prolongation of sound by multiple reflections after the original sound is removed.