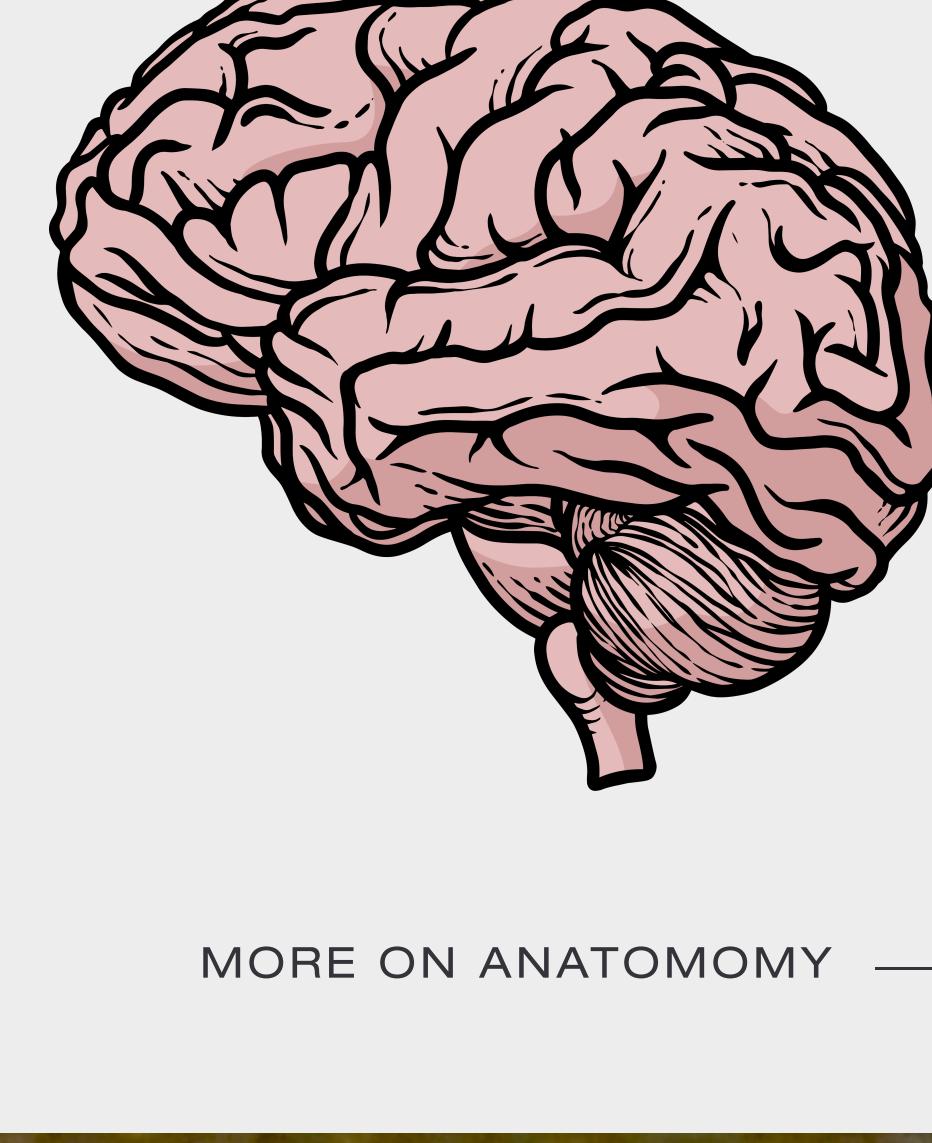
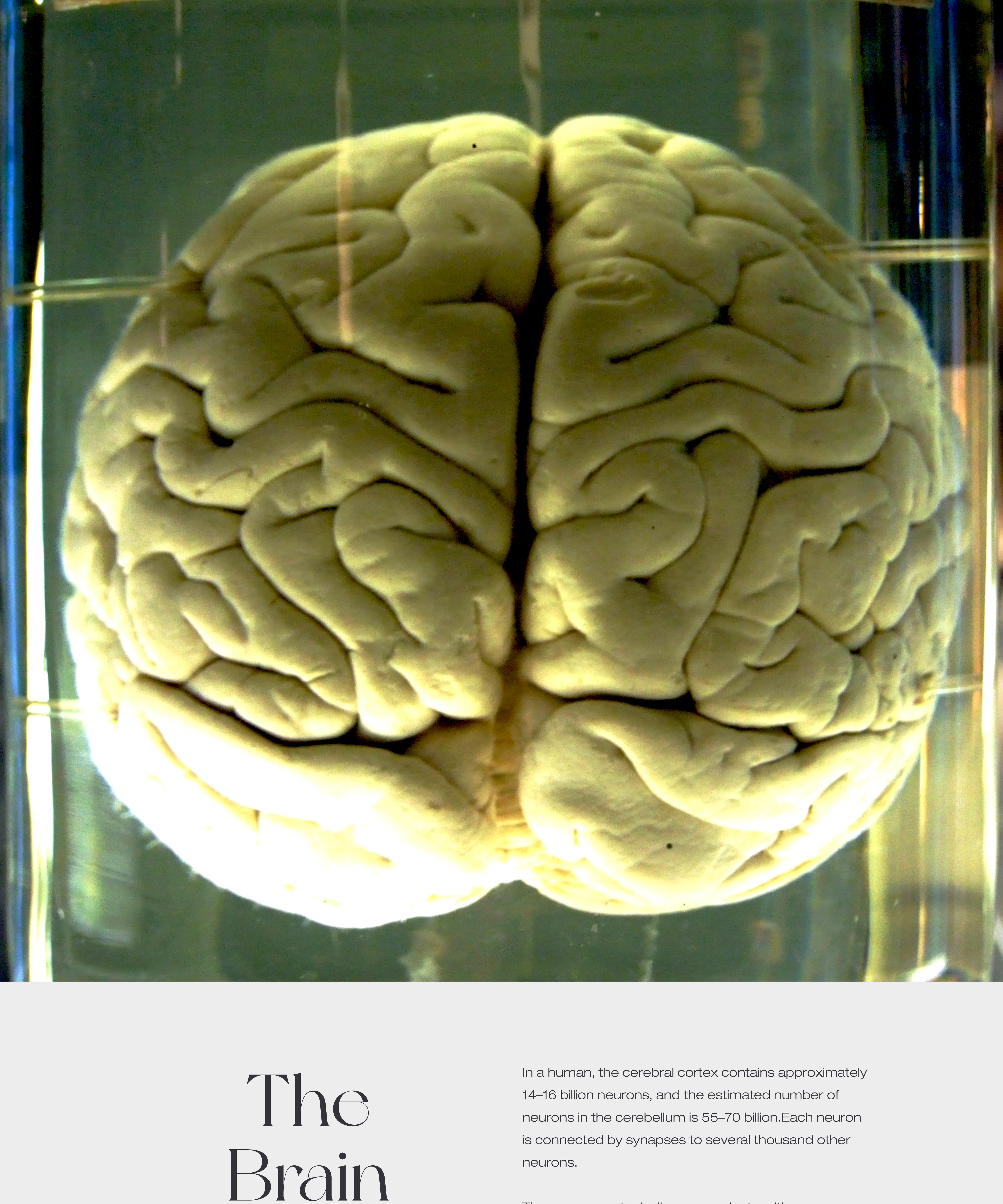


# Brain

A brain is an organ that serves as the center of the nervous system in all vertebrate and most invertebrate animals. It is located in the head, usually close to the sensory organs for senses such as vision. It is the most complex organ in a vertebrate's body.



MORE ON ANATOMY →



## The Brain Operation

In a human, the cerebral cortex contains approximately 14–16 billion neurons, and the estimated number of neurons in the cerebellum is 55–70 billion. Each neuron

is connected by synapses to several thousand other neurons.

These neurons typically communicate with one another by means of long fibers called axons, which carry trains of signal pulses called action potentials to distant parts of the brain or body targeting specific recipient cells.

The operations of individual brain cells are now understood in considerable detail but the way they

cooperate in ensembles of millions is yet to be solved.

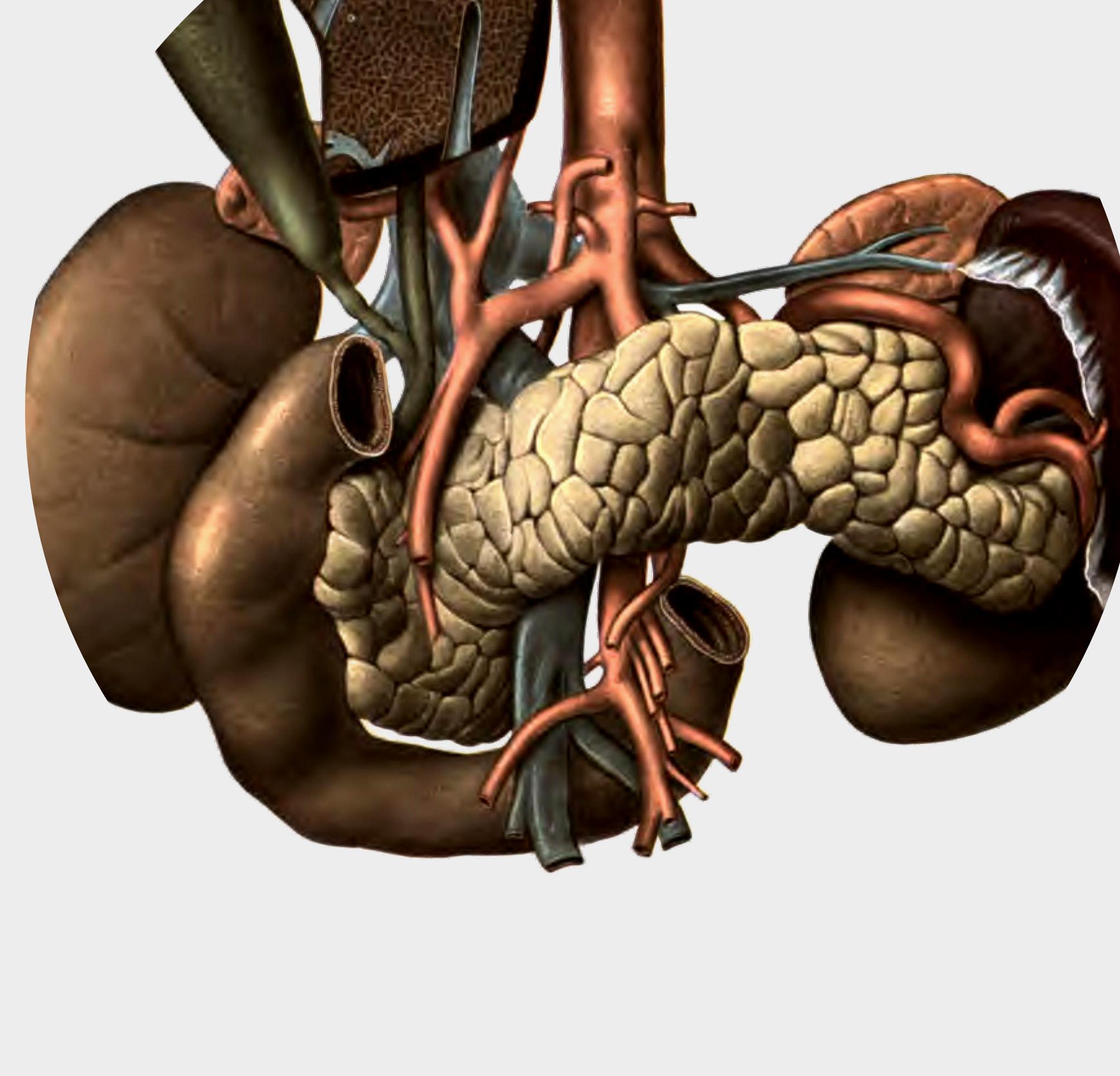
Recent models in modern neuroscience treat the brain as a biological computer, very different in mechanism

from an electronic computer, but similar in the sense

that it acquires information from the surrounding world,

stores it, and processes it in a variety of ways.

# NEXT



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