



**Figure 1.** The cell and the synapse. The cell contains the nucleus, the Golgi apparatus, and other organelles. The synapse consists of the presynaptic terminal, the synaptic cleft, and the postsynaptic terminal. The diagram illustrates the flow of information and materials between the cell and the synapse, including the synthesis of neurotransmitters and the release of vesicles into the synaptic cleft.