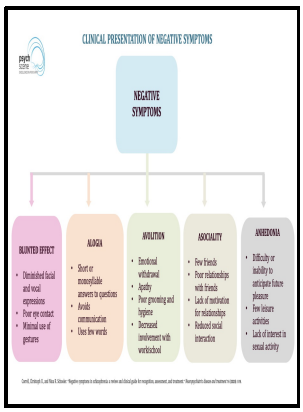
Practice of neural science - from synapses to symptoms

McGraw-Hill, Health Professions Division - Brain Study Finds Evidence that Autism Involves Too Many Synapses



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The Science of Practice: What Happens When You Learn a New Skill

The mechanisms underlying the functional improvement seen with CIMT are not well understood at either the neural or the behavioral level.

Slide show: How your brain works

There should be a coordinated movement in every neuron in the brain so that the brain can perform its vital functions. This rare syndrome often, but not always, involves autism.

What Is Brain Plasticity and Why Is It So Important?

As noted earlier, when the action potential arrives at the terminal button, the synaptic vesicles release their neurotransmitters into the synapse.

Slide show: How your brain works

The first is the transient nature of a physically induced desensitization and the second is the neural plasticity associated with sensitization.

Neural Plasticity

Hence, it would be easy to identify and trace the connections of different neurons.

The Science of Practice: What Happens When You Learn a New Skill

Well, in order to perform any kind of task, we have to activate various portions of our brain. Soft-coding allows the computer to develop its own problem-solving approaches.

The Science of Practice: What Happens When You Learn a New Skill

Psychologists who take a biological perspective and focus on the physiological causes of behavior assert that psychological disorders like depression and schizophrenia are associated with imbalances in one or more neurotransmitter systems. This makes the postsynaptic neuron even more responsive to any future communication from the presynaptic neuron. However, after training with the task, this region was no longer critically involved.

Neuroscientists reveal how the brain can enhance connections

We next review real-world implementation of video game-based rehabilitation in vision, motor function, and emotional control.

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