Nervous system

Ch 48

Functional MRI (Fig 48.1)

Neuron: name given to nerve cell

Body:

Nucleus:

Dendrite:

Axon

Organization of nervous systems

(Fig 48.2) cnidarian

Nerve nets:

(Fig 48.2) echinoderm

Nerve:

(Fig 48.2) flatworm

Cephalization:

Nerve cord:

CNS (central nervous system):

(Fig 48.2) annelid & arthropod

Ventral cord:

Ganglia:

Peripheral nervous system:

(Fig 48.2) life style differences

(Fig 48.2) chordate (vertebrate)

Spinal cord:

Sensory ganglion:

Information processing

Sensory input:

External:

Internal:

Sensory neuron:

Integration:

Interneurons:

Motor output:

Motor neurons:

Effector cell:

Reflex

Vertebrate neuron

Dendrite:

Axon:

Axon hillock:

Synapse:

Synaptic terminal:

Neurotransmitter:

Presynaptic cell:

Postsynaptic cell:

Myelinated nerve cell

Schwann cell:

Myelin:

Myelin sheath:

Node of Ranvier:

Central nervous system

Brain:

Spinal cord:

Peripheral nervous system

Cranial nerves:

Ganglia:

Spinal nerves:

Somatic nervous system:

Autonomic nervous

Sympathetic division:

Parasympathetic division:

Enteric division:

Brain development

Forebrain

Midbrain

Hindbrain

Telencephalon

Diencephalon

Mesencephalon

Metencephalon

Mylencephalon

Brain stem

Medulla oblongata

Pons:

Midbrain:

Cerebellum:

Diencephalon:

Epithalamus:

Thalamus:

Hypothalamus:

Cerebrum:

Cerebral hemispheres:

Basal nuclei:

Neocortex:

Corpus callosum:

Cerebral cortex

Frontal lobe:

Parietal lobe:

Temporal lobe:

Occipital lobe: