

CSM Human Anatomy

Nervous and Endocrine Systems Lab Guide

Histology

Spinal cord (16) features

including:

motor neuron in anterior gray
horn

sensory/dorsal root ganglion
with cell bodies of sensory
nerves

central canal

posterior(dorsal) horns

anterior(ventral) horns

lateral horns

gray commissure

dorsal root ganglia

nerve roots

retina, choroid, sclera (17)

Organ of Corti (18)

thyroid follicles (34)

adrenal gland - medulla and
cortex (36)

pituitary gland - anterior and
posterior (35)

pancreas - pancreatic islets (of
Langerhans) (25)

Central Nervous System

Brain

Meninges

dura mater

falx cerebri

falx cerebelli

tentorium cerebelli

dural venous sinus

pia mater

arachnoid membrane

subarachnoid space

arachnoid villi

choroid plexus

Gray matter

White matter

Cerebrum

Convolutions - gyri

Sulci

Cerebral cortex

R & L hemispheres

longitudinal fissure

frontal lobe

central sulcus

lateral sulcus

parieto-occipital

sulcus

precentral gyrus

Broca's area

parietal lobe

postcentral gyrus

temporal lobe

occipital lobe

insula

basal nuclei

transverse fissure

corpus callosum, corona

radiata, internal capsule

mesencephalon

corpora quadrigemina

superior colliculus

inferior colliculus

substantia nigra

cerebellum

arbor vitae

cerebellar cortex

thalamus

intermediate

mass/interthalamic

adhesion

hypothalamus

pineal body

pituitary gland

infundibulum

pons
medulla oblongata
lateral ventricles
third ventricle
cerebral aqueduct
fourth ventricle

Spinal Cord

central canal
conus medullaris
filum terminale
cauda equina
spinal nerves
posterior(dorsal) horns
anterior(ventral) horns
lateral horns
gray commissure
dorsal root ganglia
nerve roots

Peripheral Nervous System

Cranial Nerves

Olfactory
Optic
Oculomotor
Trochlear
Trigeminal
Abducens
Facial
Vestibulocochlear
Glossopharyngeal
Vagus
Accessory
Hypoglossal

Cervical Plexus

Brachial Plexus

Radial nerve
Ulnar nerve
Median nerve

Lumbar Plexus

Femoral nerve

Sacral Plexus

Sciatic nerve

Sympathetic Chain of Ganglia

Eye

fibrous tunic
sclera
cornea
vascular tunic
choroid
ciliary body
iris
lens
pupil
ora serrata
retina
fovea centralis
optic disc
anterior cavity
anterior chamber
posterior chamber
aqueous humor
posterior cavity
vitreous humor
orbit
eyebrow
eyelids(palpebrae)
conjunctiva
lacrimal apparatus(gland,
duct)
extrinsic eye muscles

Ear

auricle (pinna)
external auditory meatus
tympanic membrane
middle ear
ear ossicles - malleus,
incus, stapes
auditory tube
(eustachian)
vestibule
semicircular canals
cochlea

Endocrine System Glands

pituitary

thyroid

parathyroids

pineal body

thymus

adrenals

pancreas

gonads - ovaries, testes