

If the *left* side of your brain
controls the right side of your body,
and the *right* side of your brain
controls the left side of your body,
then left-handed people must be the
only ones in their right minds.

--W.C. Fields

Nervous System

Conducting system—

Receives (sensory)

receptors

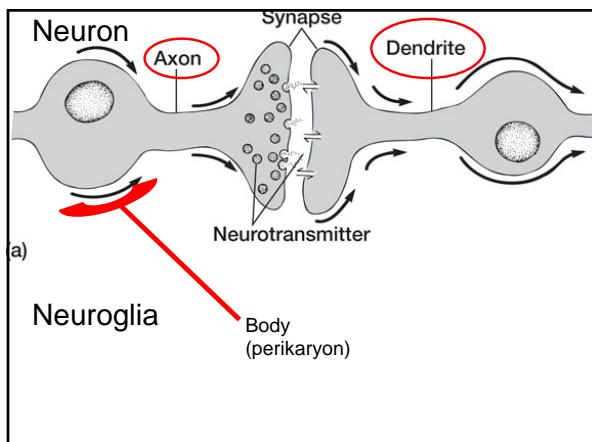
Transmits (motor)

effectors (chemical, mechanical)

Components—

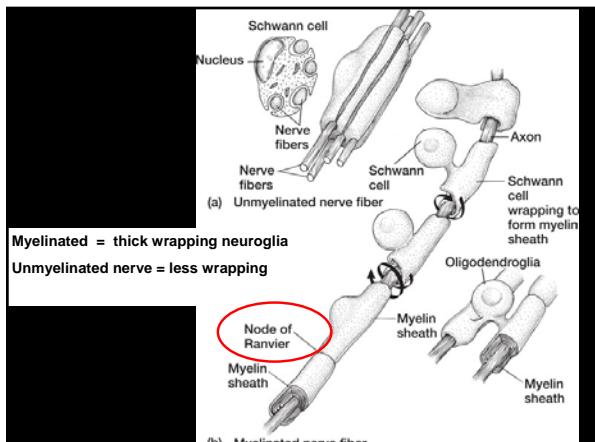
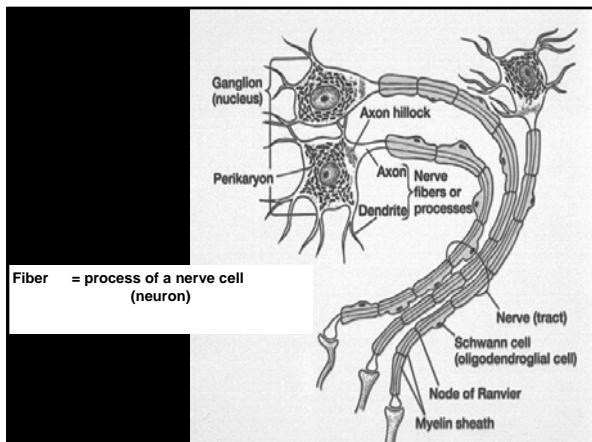
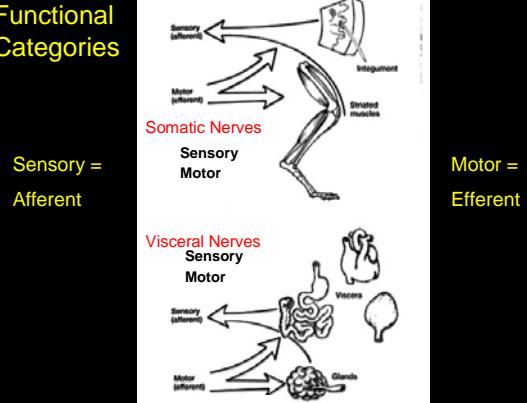
Central Nervous System (CNS)

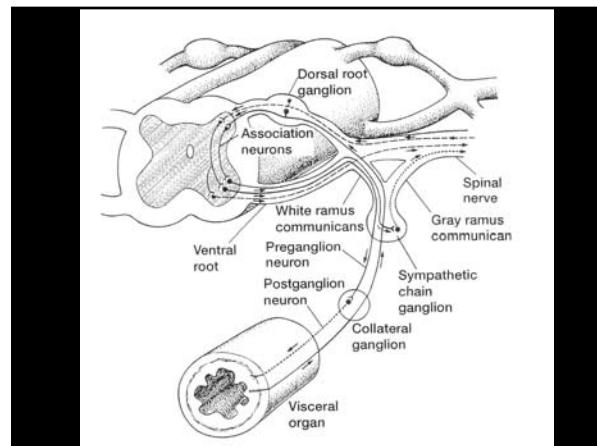
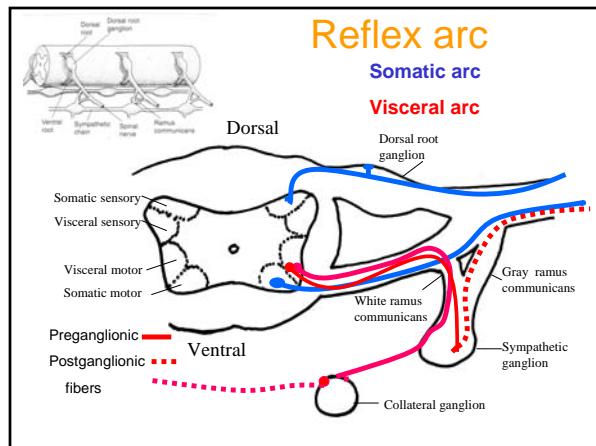
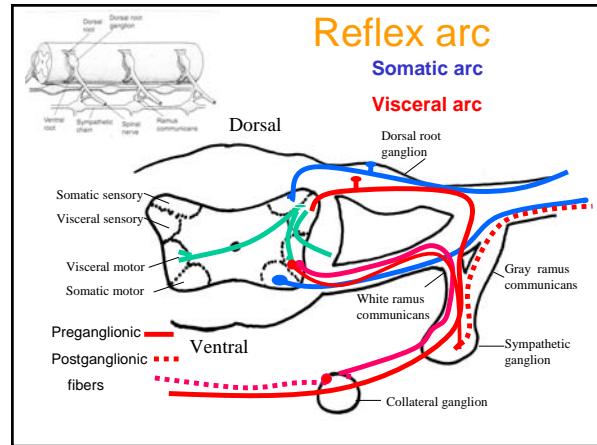
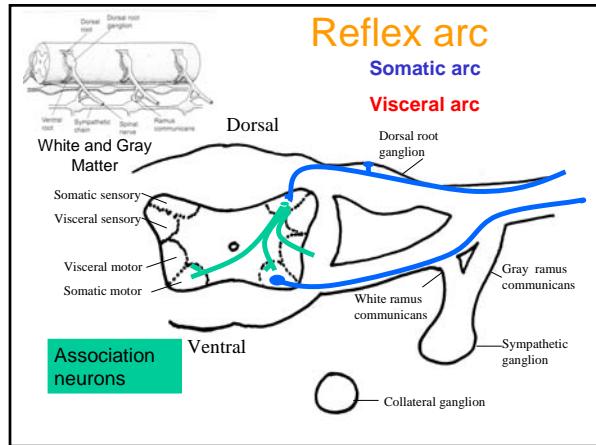
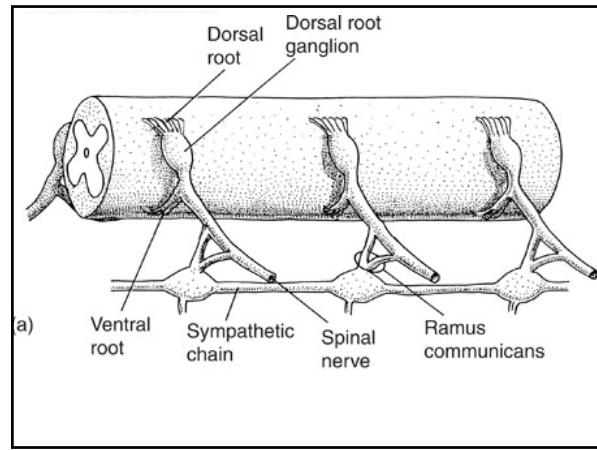
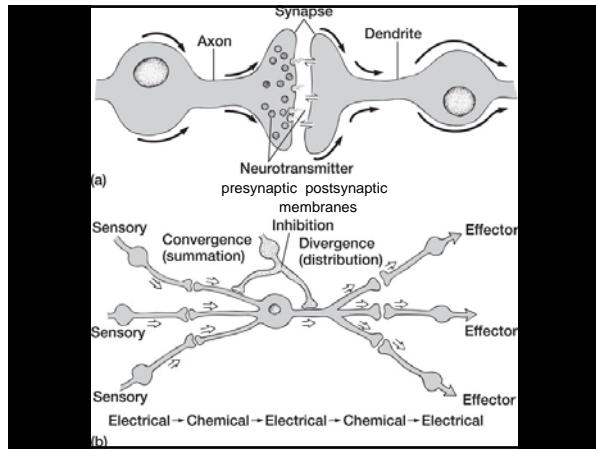
Peripheral Nervous System (PNS)

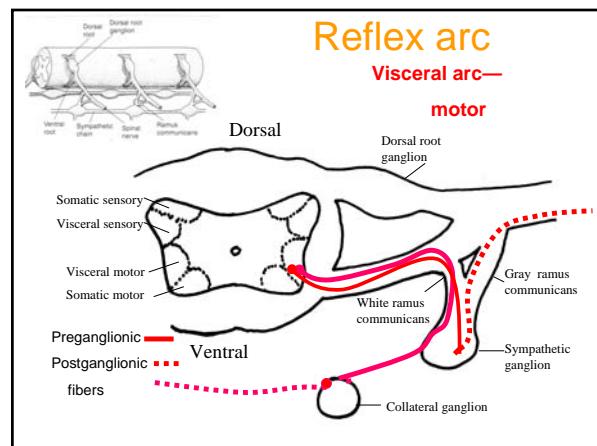
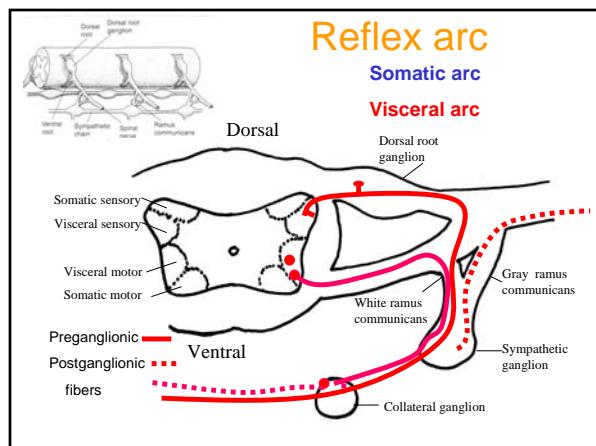
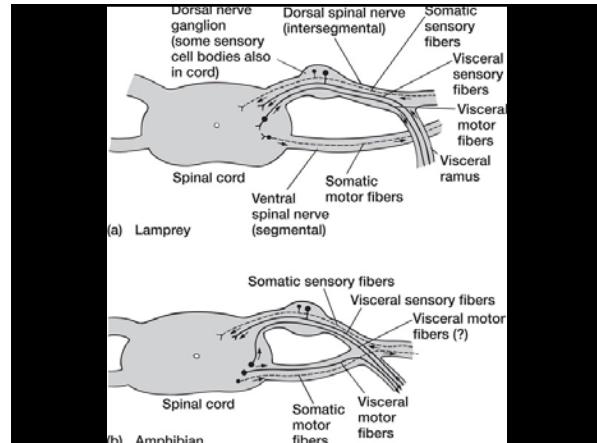
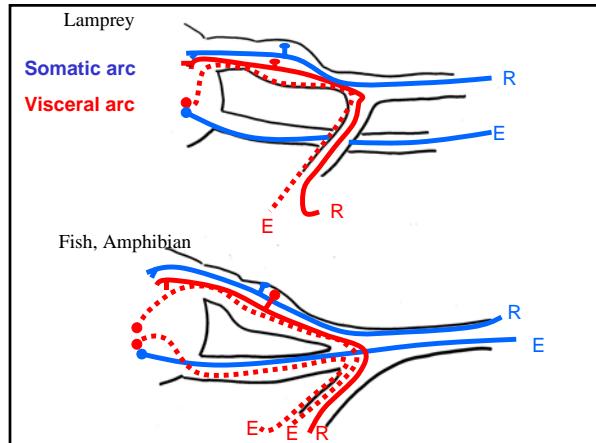
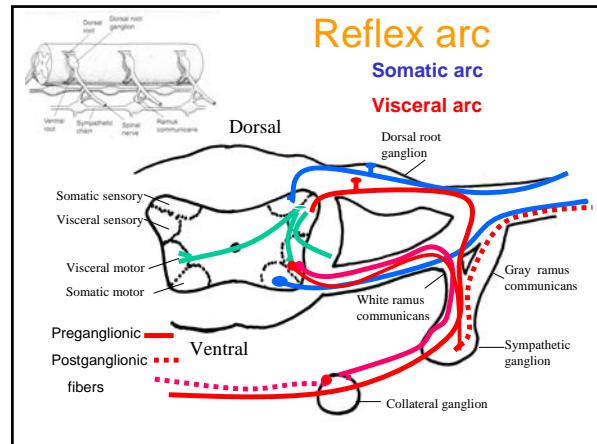
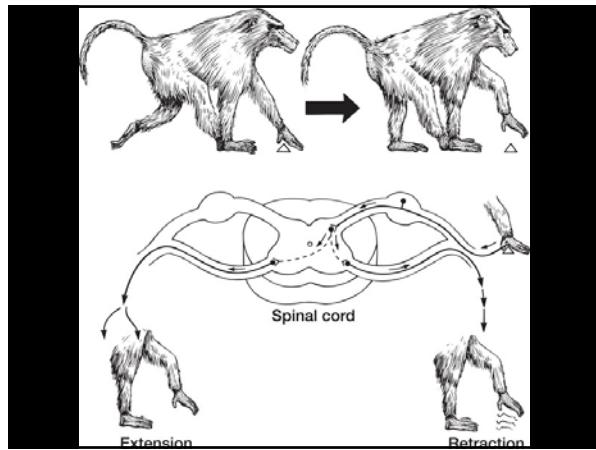


Functional Categories

Sensory =
Afferent







Autonomic Nervous System

Define—visceral motor neurons

ventral root

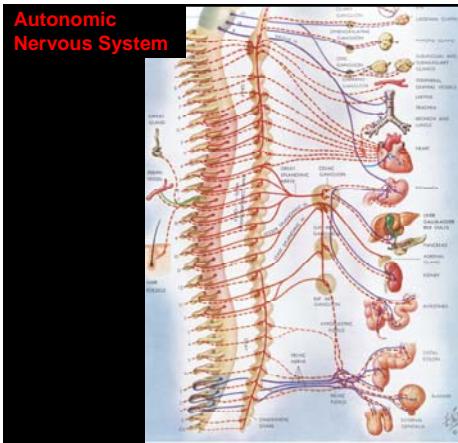
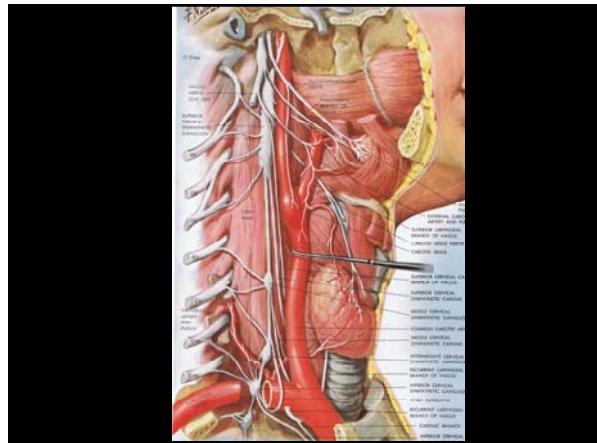
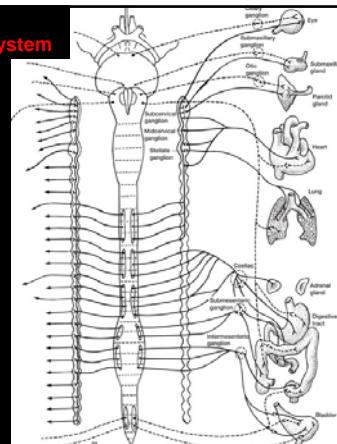
pre- and post-ganglionic

Two contrasting systems

sympathetic

parasympathetic

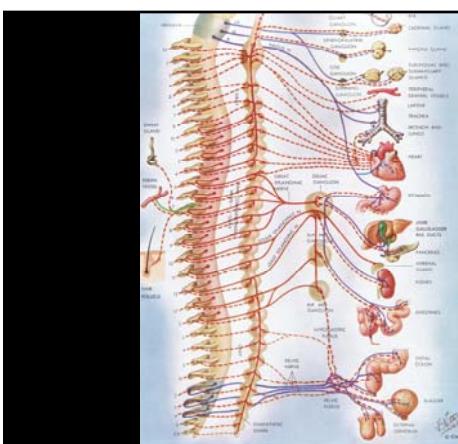
Autonomic Nervous System

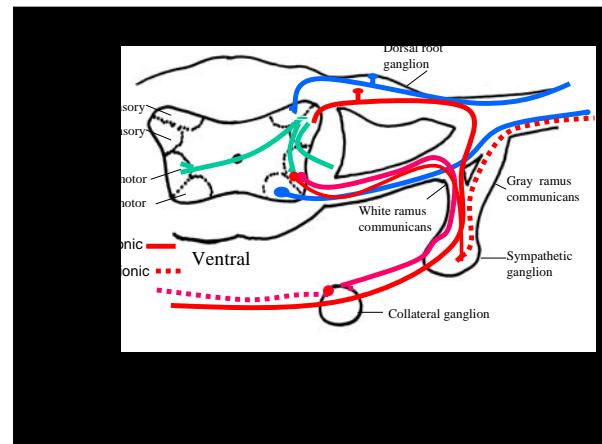
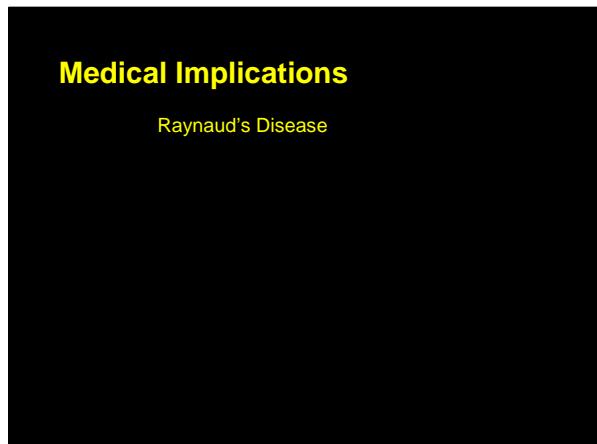
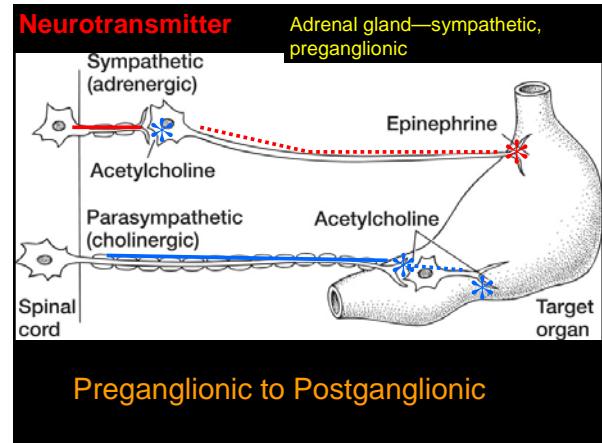
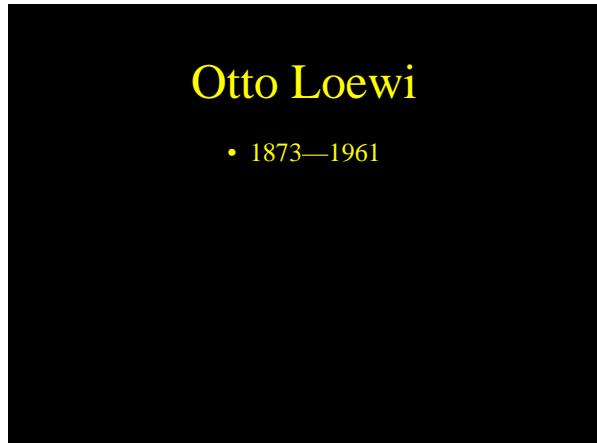
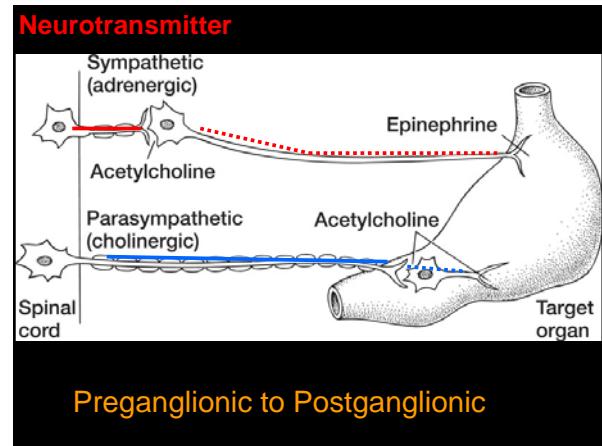
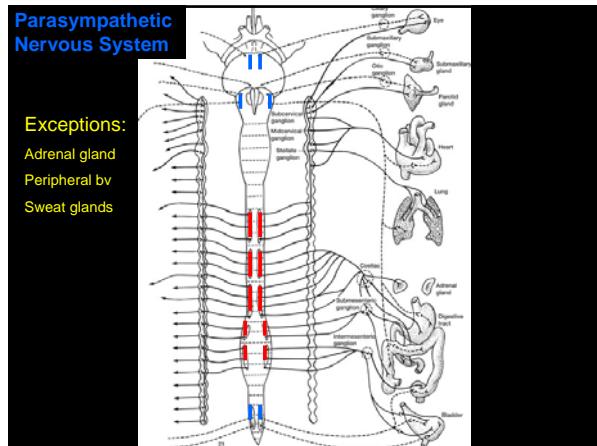


Sympathetic Nervous System

Sympathetic chain ganglia

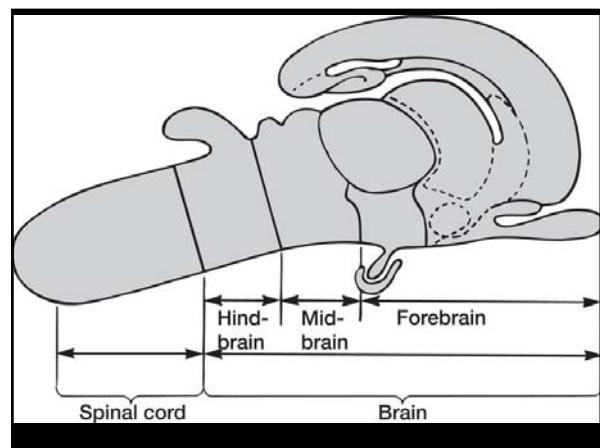
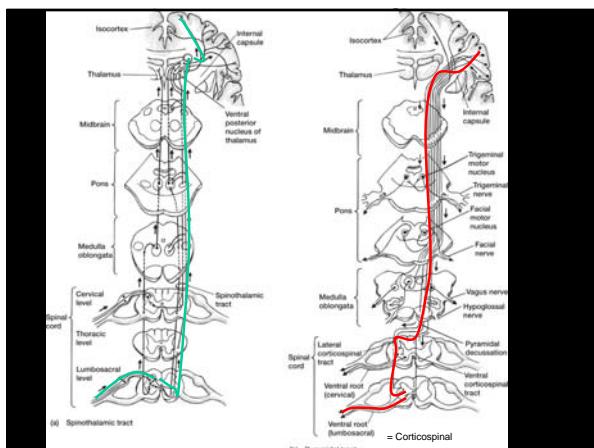
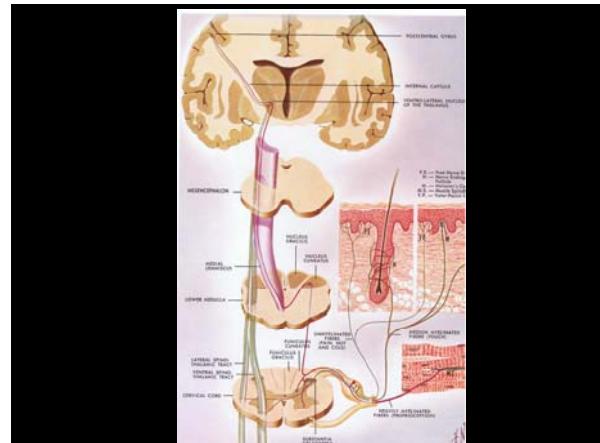
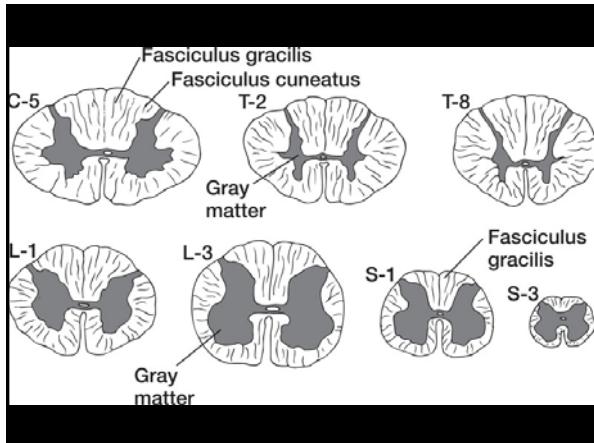
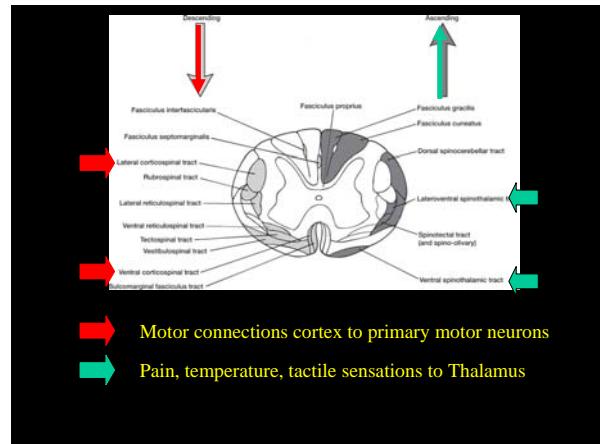
Fight or Flee

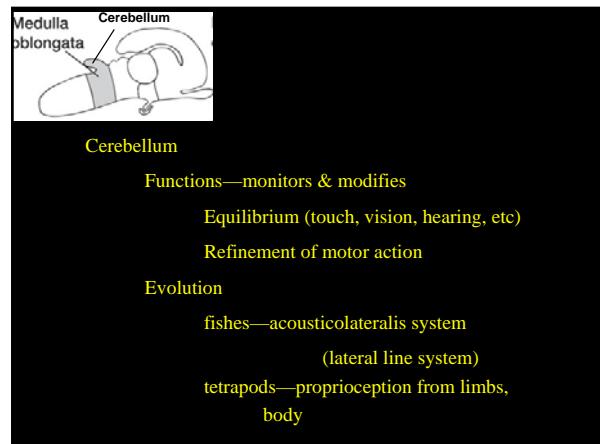
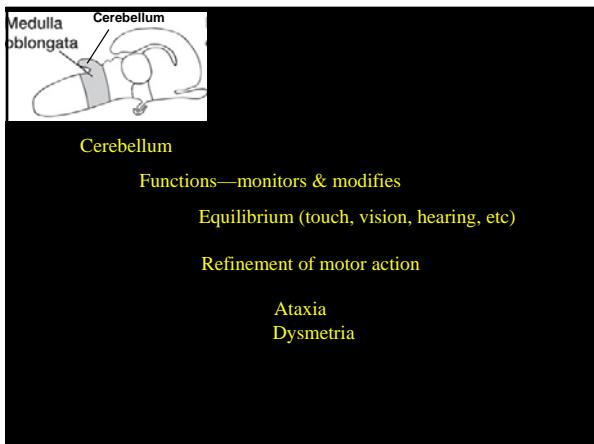
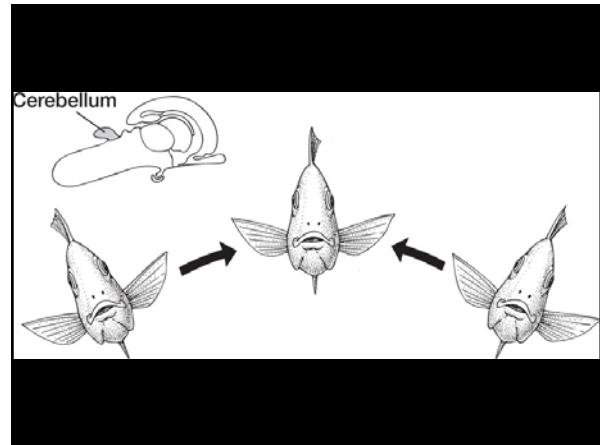
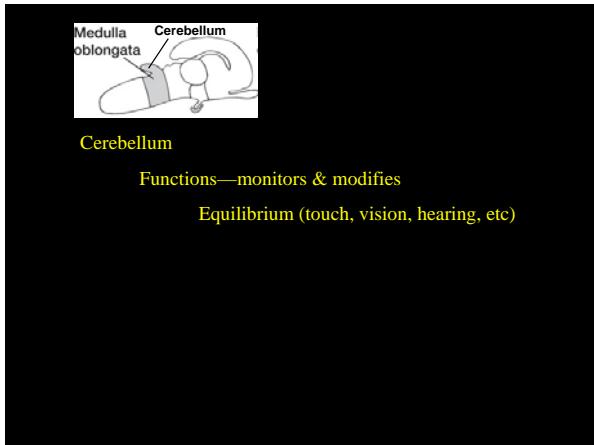
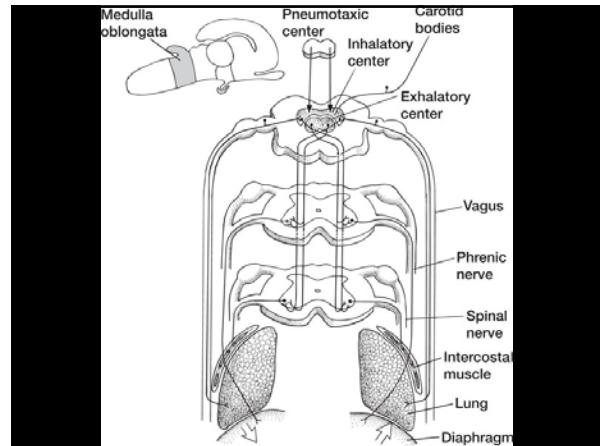
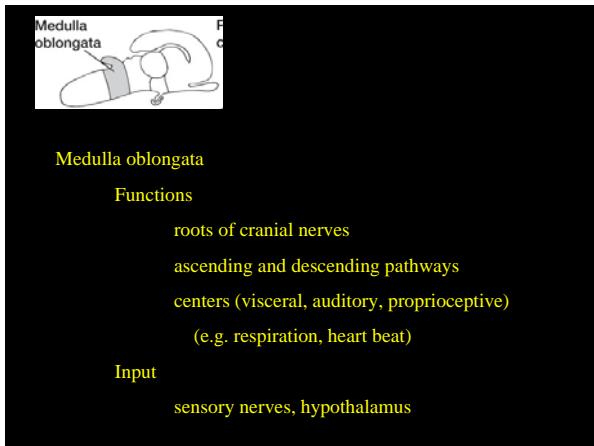


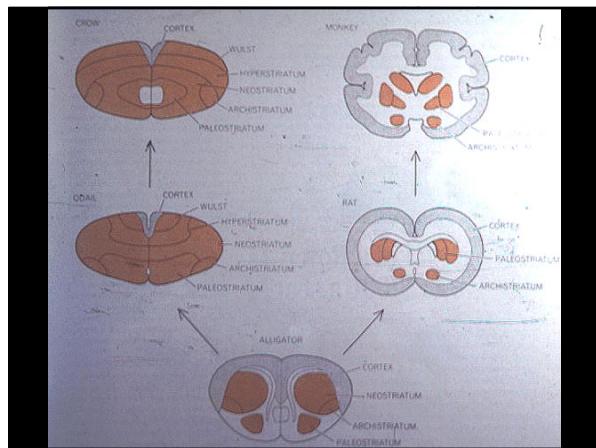
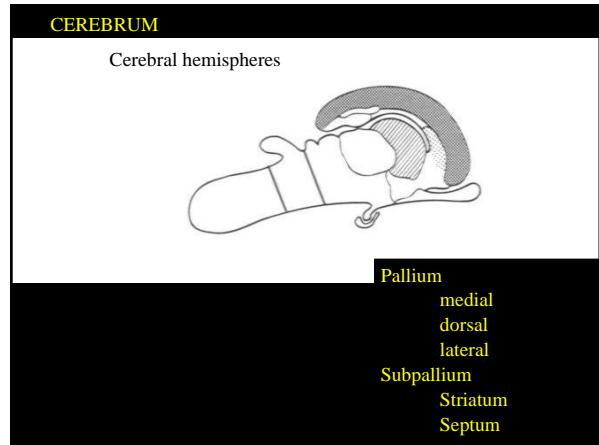
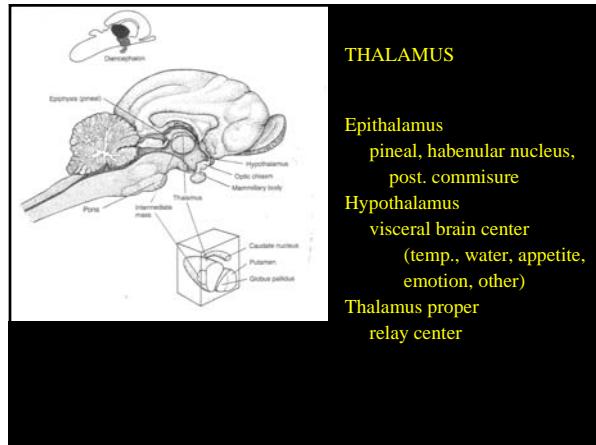
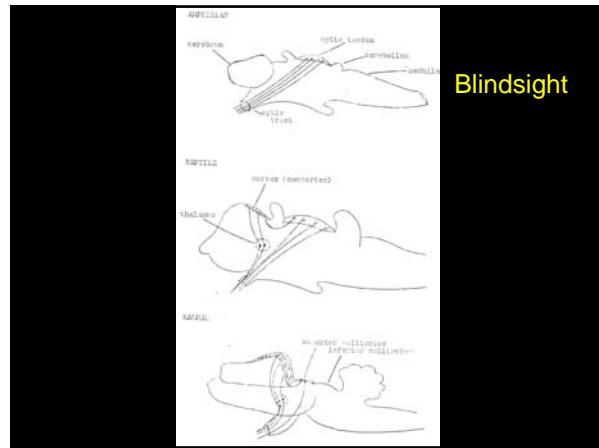
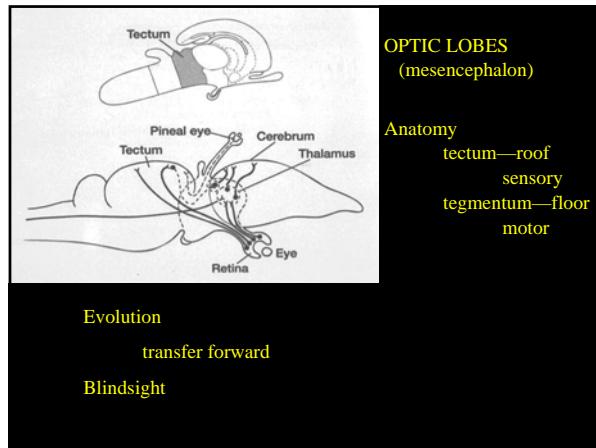


Types of Sensory Receptors

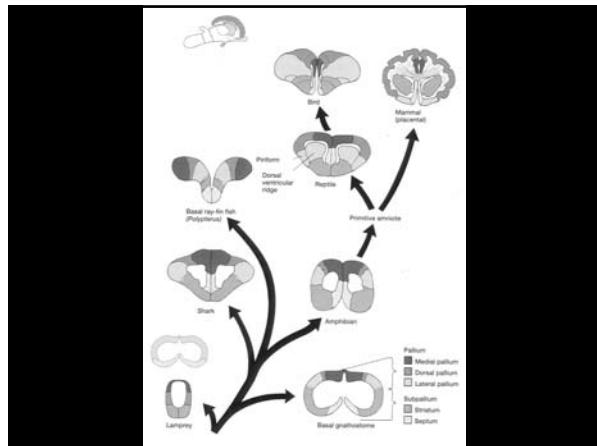
Exteroceptors -- outside
Interoceptors -- inside
Proprioceptors – special interoceptors







Morphological	out dated (tired)	Descriptive (wired)
PALLIUM		
Medial -----	Archipallium	(Hippocampus)
Dorsal } -----	Neopallium	(Cerebral cortex)
Lateral }	Paleopallium	(Piriform cortex)
SUBPALLIUM		
Striatum -----	Corpus striatum	(Basal nuclei)
Septum -----	Septum	(Septal nuclei)
		(limbic system)



Morphological	out dated (tired)	Descriptive (wired)
PALLIUM		
Medial	Archipallium	(Hippocampus)
Dorsal	Neopallium	(Cerebral cortex)
Lateral	Paleopallium	(Piriform cortex)
SUBPALLIUM		
Striatum	Corpus striatum	(Basal nuclei)
Septum	Septum	(Septal nuclei) (limbic system)

