



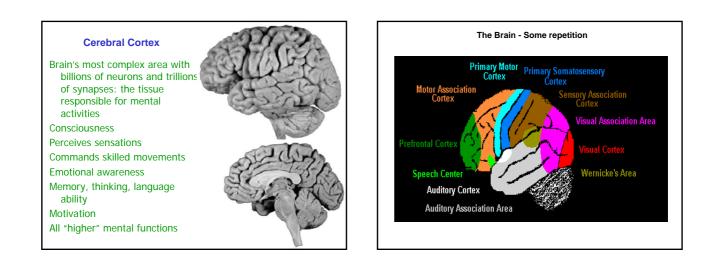
Information through:

Functional Brain Imaging (fMRI, PET, etc)

Brain "damaged" persons

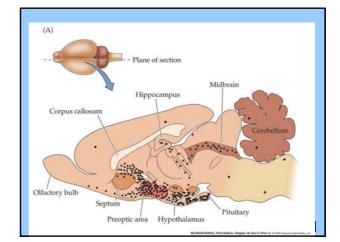
Cognitive tests, etc

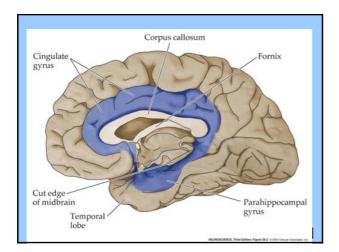
Studying of other species

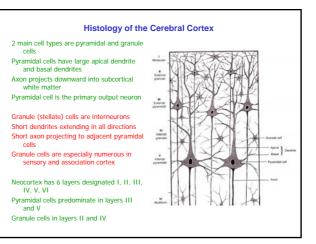


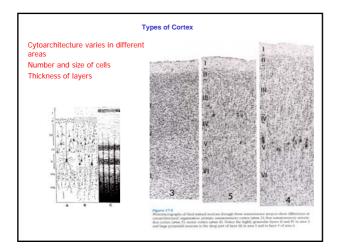
Types of Cerebral Cortex

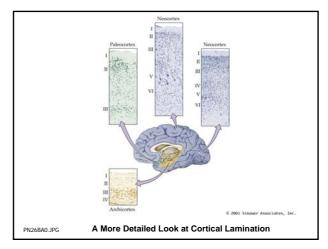
Types of Cerebral Cortex
Neocortex
Newest in evolution
About 90% of total
6 layers, most complex
Paleocortex
Associated with olfactory system, the parahippocampal gyrus, uncus
fewer than 6 layers (3 layers)
Archicortex
Hippocampal formation; limbic system
fewer than 6 layers (3-4 layers), most primitive
Mesocortex
Cingulate gyrus
Transitional between archicortex and neocortex

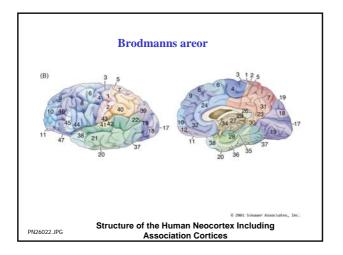


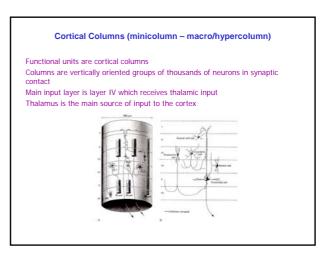


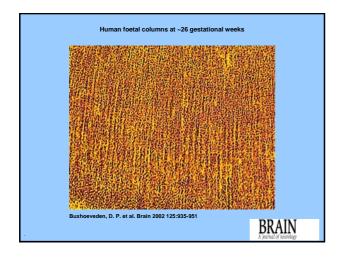


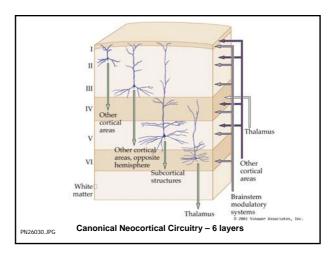


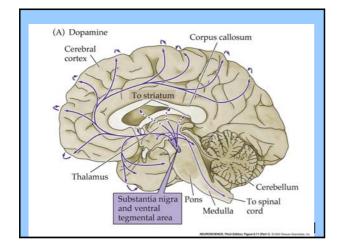


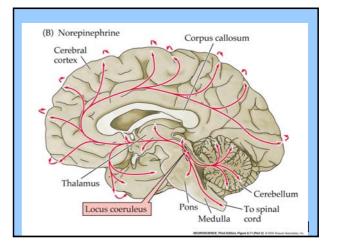


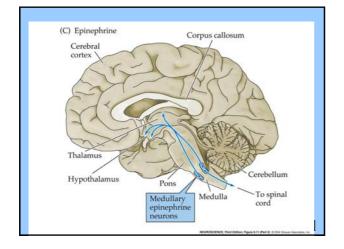


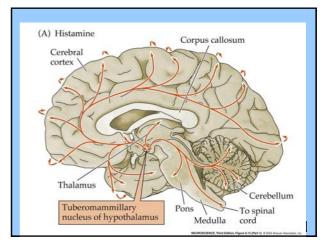


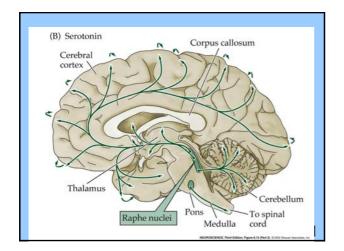












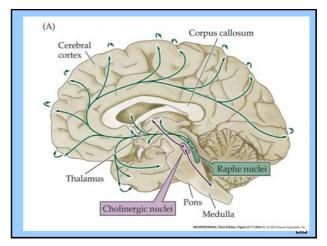
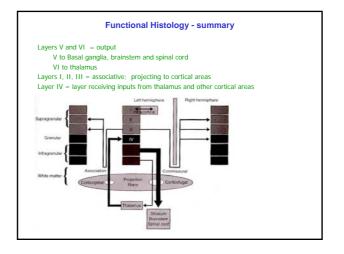
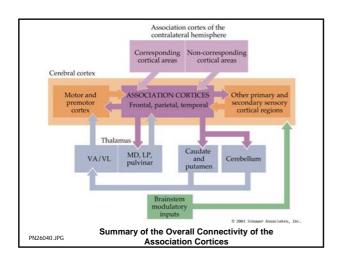
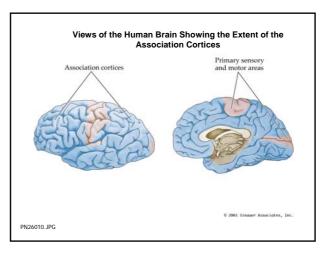
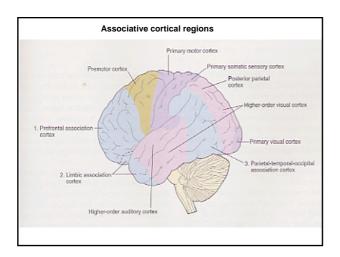


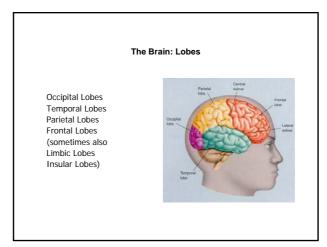
TABLE 25.1 The Major Connections of the Neo	ocortex	
Sources of cortical input	Targets of cortical output	
Other cortical regions Hippocampal formation Amygdala Thalamus Brainstem modulatory systems	Other cortical regions Hippocampal formation Amygdala Thalamus Caudate and putamen (striatum) Brainstem Spinal cord	

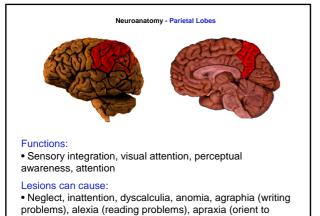




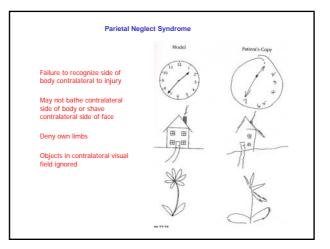


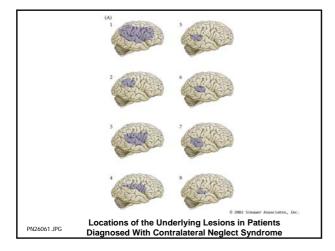


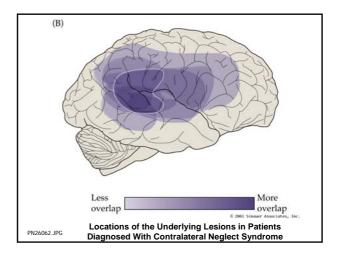


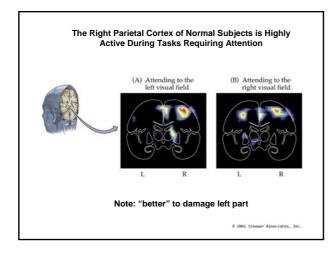


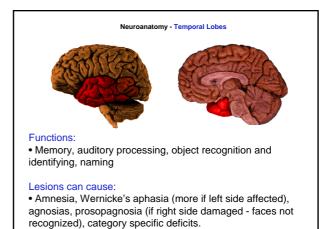
sound)

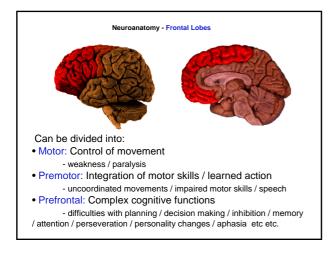


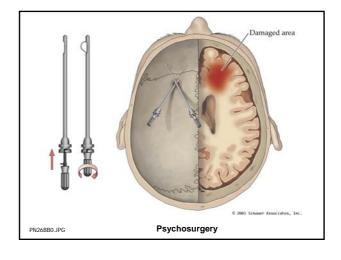


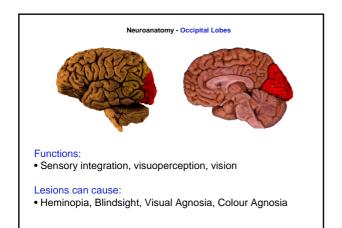


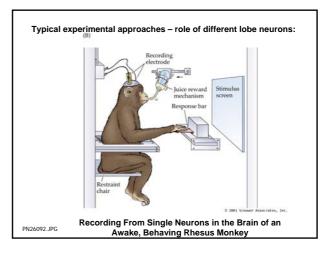


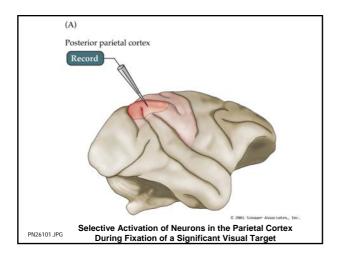


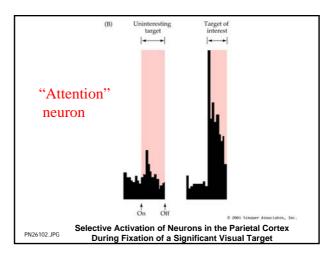


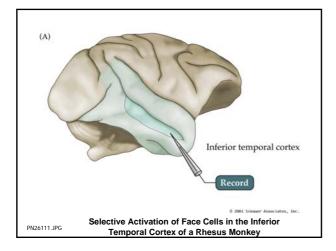


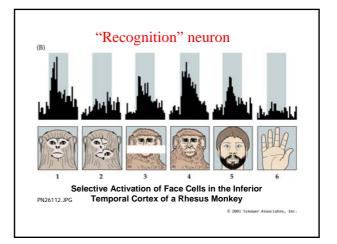


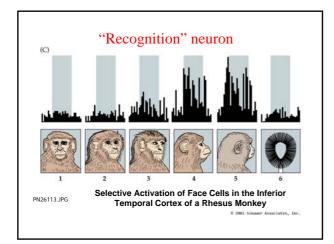


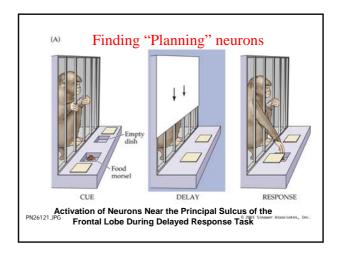


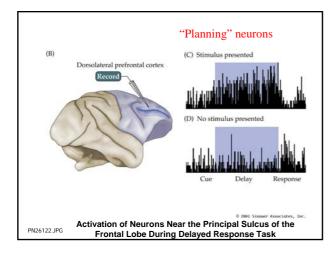


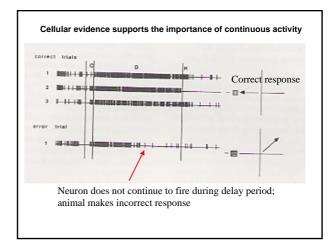


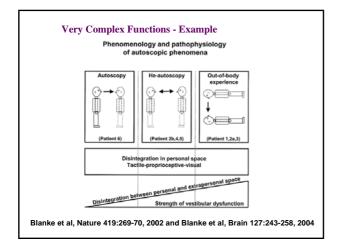


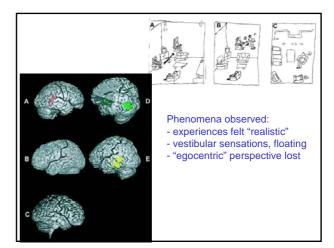


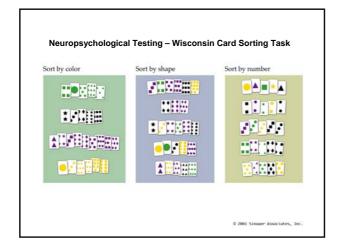


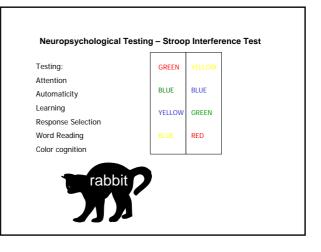


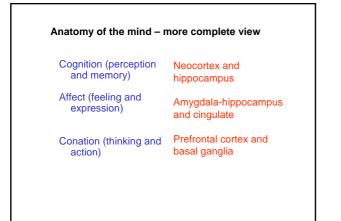


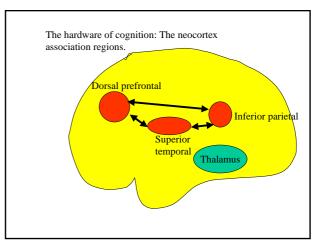


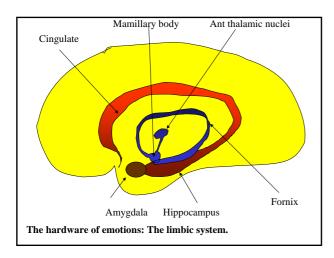


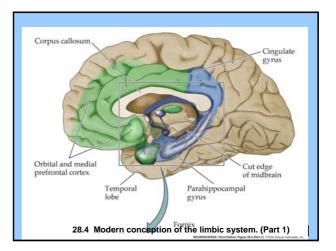


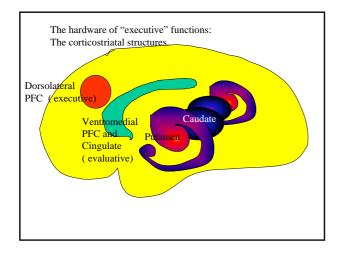


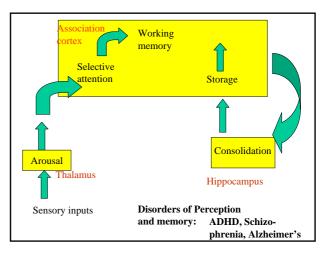


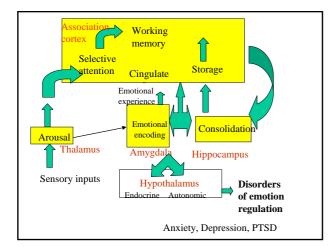


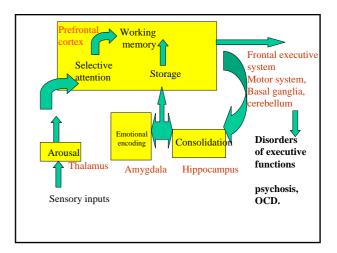












Neurochemical systems involved				
Norepinephrine	Flight/Fight/Fright			
Dopamine	Pleasure seeking/executive			
Serotonin	Appetitive functions			
Acetylcholine	Memory, arousal			
GABA	Inhibitory			
Glutamate	Excitatory			

