

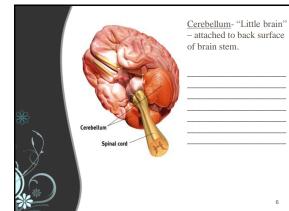
The Primitive Brain

The increasingly complexity of the human brain comes from new brain systems built on top of the old

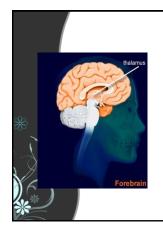
The "Old" brain

- These structures tend to be responsible for basic, reflexive functions.
- The *Brainstem* is the oldest region of the human brain.

The Medulla controls basic body functions-

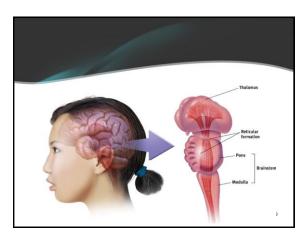


	The "Old" Brain						
	The reticular formation (RF) is a finger-shaped nerv network in the brainstem that plays an important role in controlling arousal.						
*	·	_					
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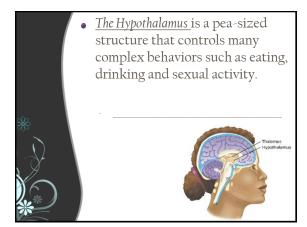


- The <u>Thalamus</u> is a large structure of forebrain
- Processes sensory information from the CNS before it reaches the cerebral cortex

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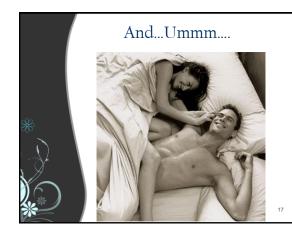
Not th	ne old, but not quite the new.	
	1	_
	The Limbia Contour is a named	-
ATY!	The Limbic System is a neural system located below the	
11/	cerebral hemispheres;	
Carlot Contract of the Contrac		
Hypothalamus	This is the "planning among of	
Pituitary gland Amyg	This is the "pleasure center" of the brain	
,	nippocampus 10	
	The Hippocampus	
		-
	• The hippocampus has a special role in	-
c02	Individuals who suffer extensive	
₹	hippocampal damage cannot retain any	
	11	
	The Amygdala	
	The Imiyguau	
	The Amygdala consists of two lima bean-	
	sized neural clusters linked to the	
	emotions of	-
*	Associated with,	
	including the perception of these emotions and the processing	
		-



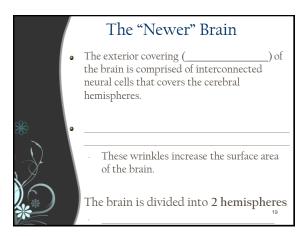


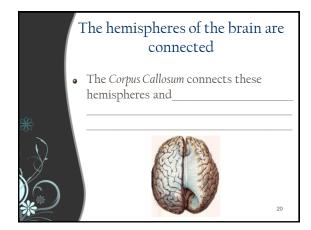


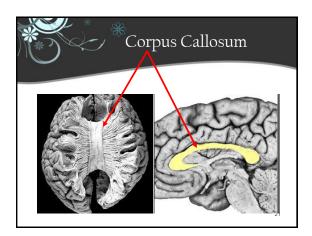


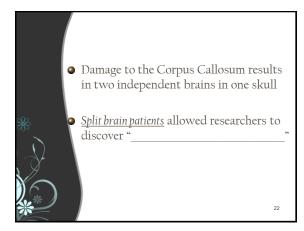


•	Can pleasure become addictir	ıg?
*	The rats will choose to press the bar in prefere over food and water,	ence
WILL PRESS & LEVER FOOD	Recent research suggests that there is a line between addictive behaviors and the stimulation of these areas (Volvow et al., 2002).	
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Split Brain Research

 This research showed that each hemisphere of the brain is <u>specialized</u>

The <u>right brain</u> is associated with musical ability, spatial and drawing tasks

The *left brain* is associated with speech and language.

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Hemispheric Specialization

Left Brain

- Controls Right Side of
 Rody
- Right Side Visual Field
- Speaking
- Reading
- Logical ThinkingAnalytical Skills

Sequential Processing

Right Brain

- Controls Left Side of Body
- Left Side Visual Field
- Spatial Processing
- Facial Recognition
- Music
- Emotional Expression
- Holistic Thinking

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	More Brain Next Class!		
* \	The four lobes of the cerebral cortex!	•	
*	25		