

# Neuroanatomy Task

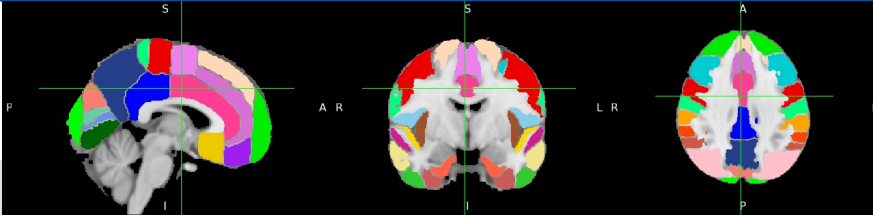
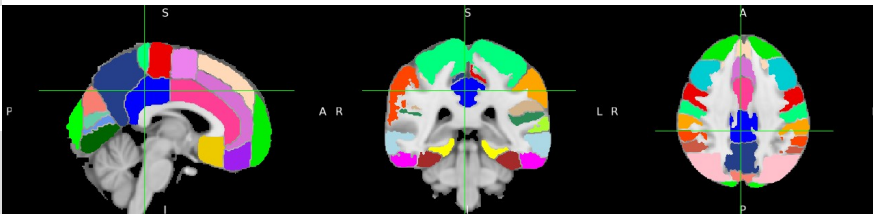
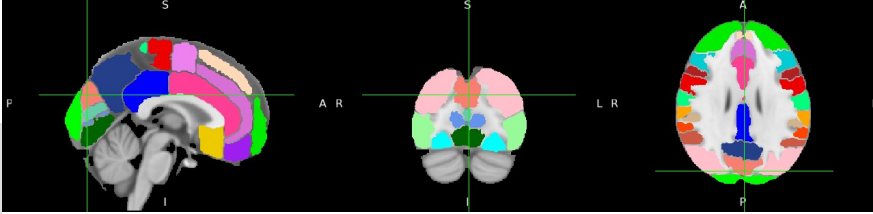
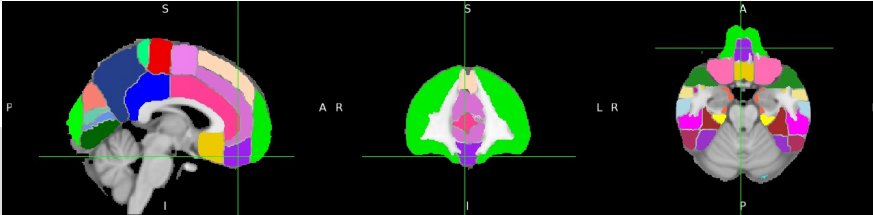
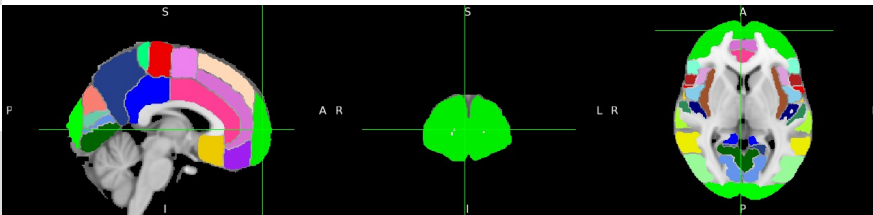
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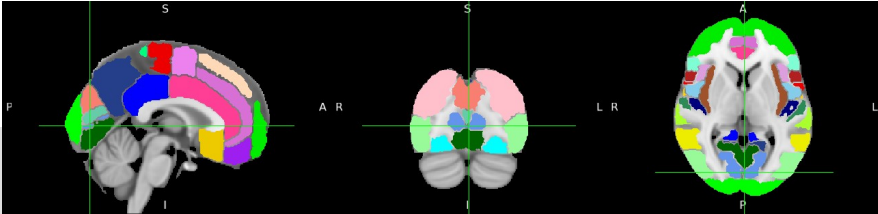
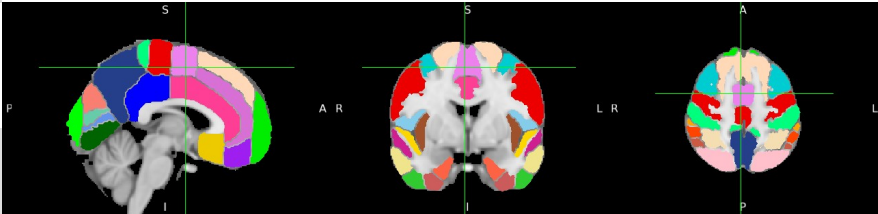
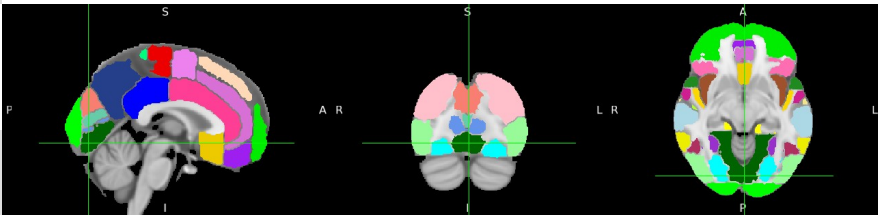
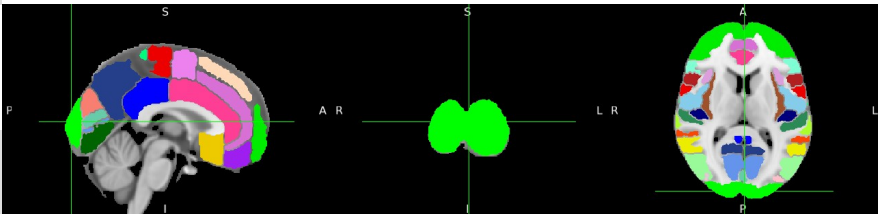
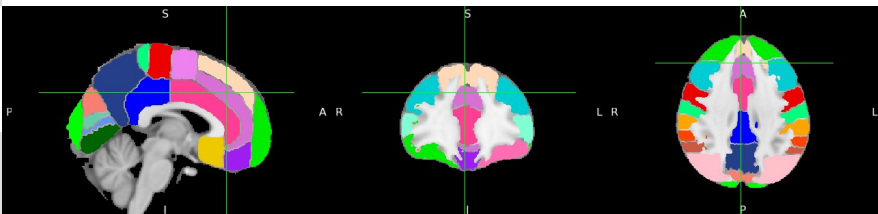
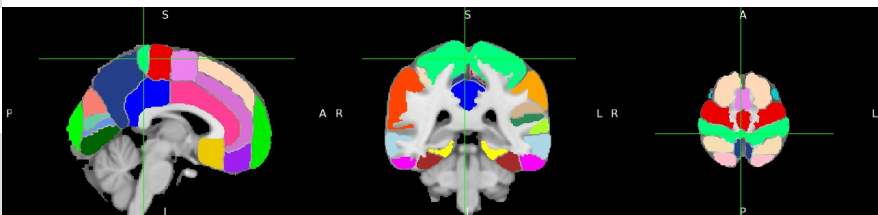
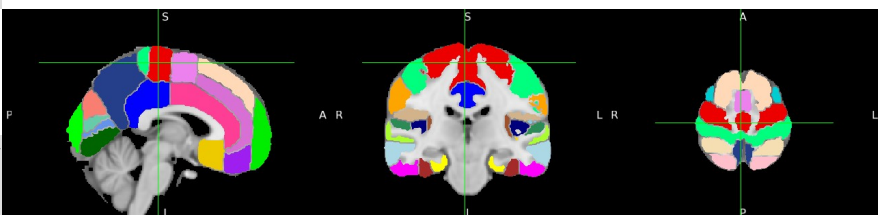
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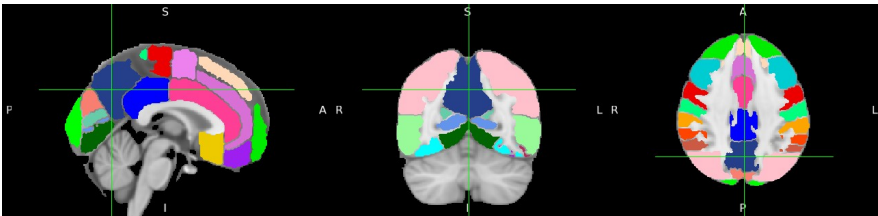
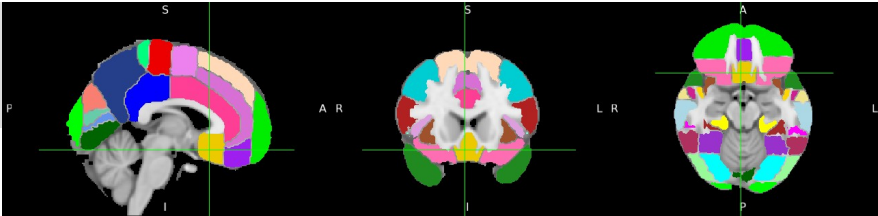
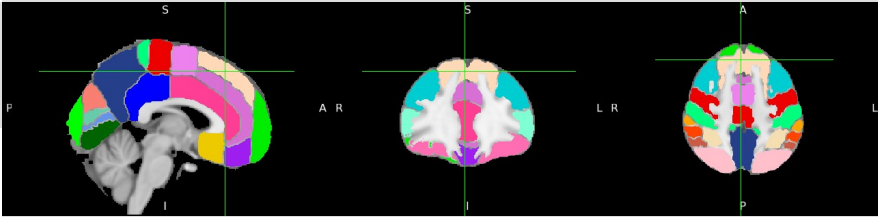
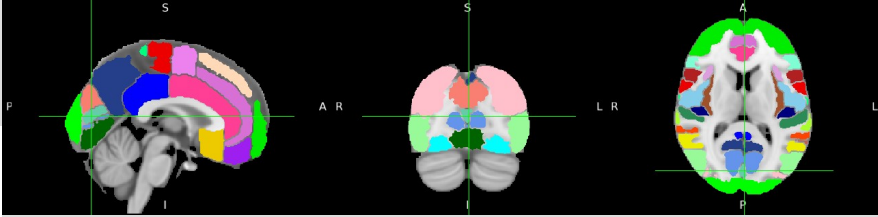
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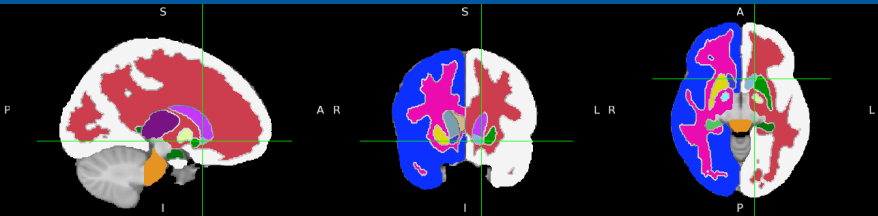
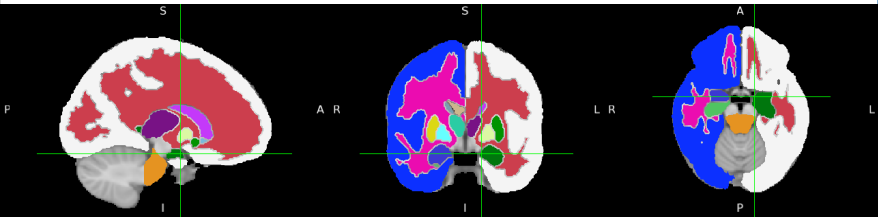
## Harvard-Oxford Cortical Structural Atlas:

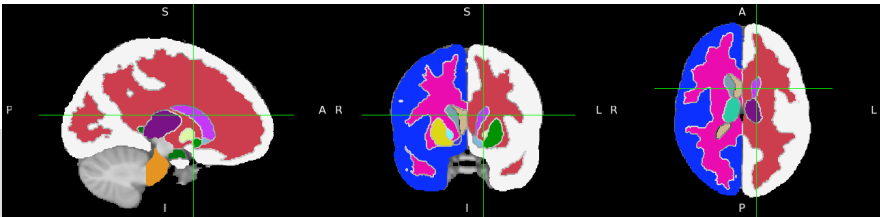
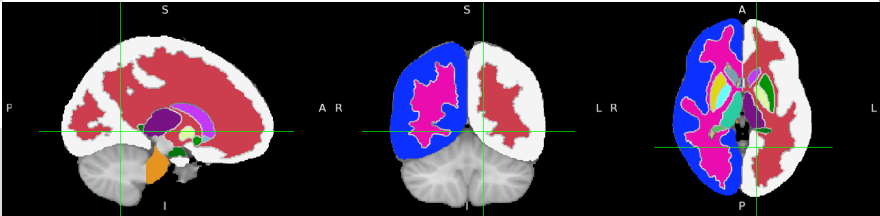
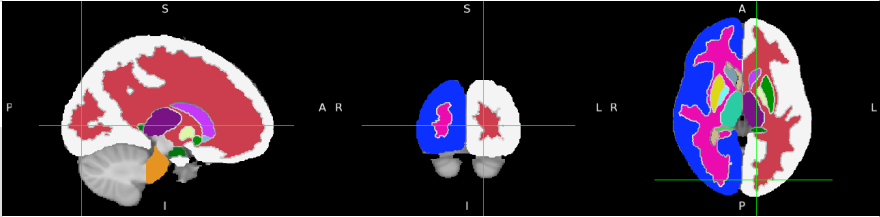
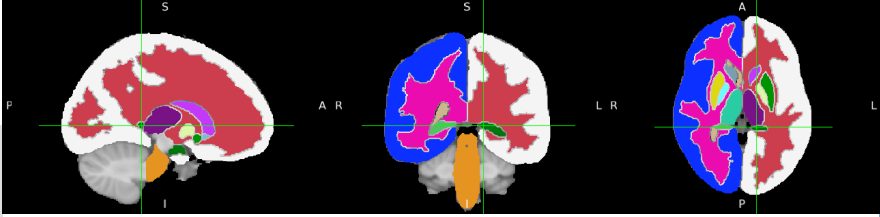
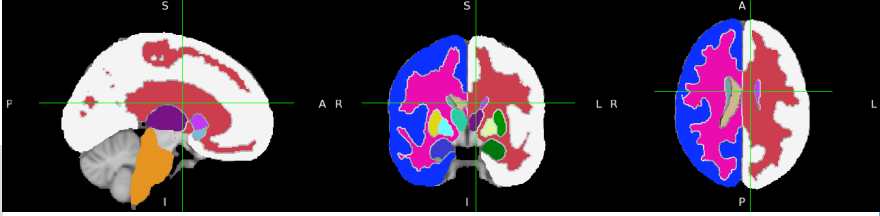
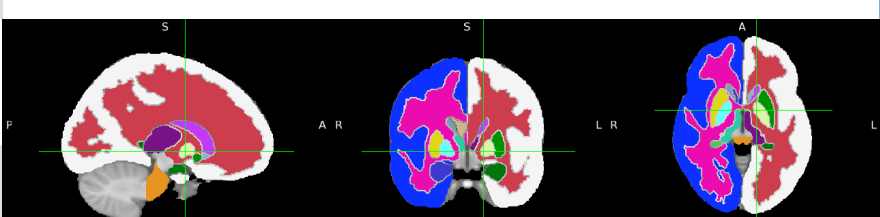
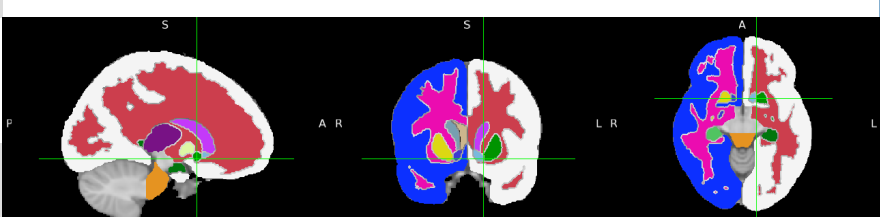
Region Name	Two main functions	Screenshot
Cingulate Gyrus, anterior division	Emotional Processing	
	Decision Making	
Cingulate Gyrus, posterior division	Sensory integration	
	Pain processing	
Cuneal Coretex	Visual processing	
	Visuospatial attention	
Frontal Medial Cortex	Decision-making	
	Self-awareness	
Frontal Pole	Attentional control	
	Decision-making	

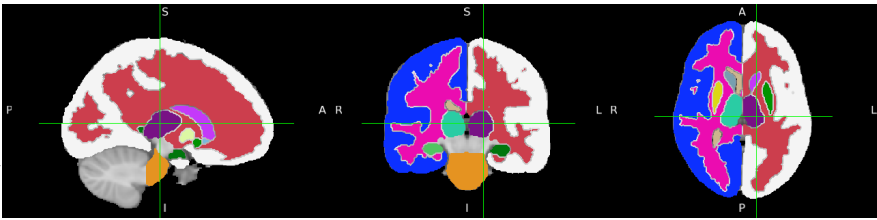
<b>Intracalcarine Cortex (primary visual cortex or V1)</b>	<b>Visual processing</b>	
	<b>Perception.</b>	
<b>Juxtapositional Lobule Cortex (formerly Supplementary Motor Cortex)</b>	<b>Motor planning</b>	
	<b>Movement initiation</b>	
<b>Lingual Gyrus</b>	<b>Visual processing</b>	
	<b>Object recognition</b>	
<b>Occipital pole</b>	<b>Perception</b>	
	<b>Visual processing</b>	
<b>Paracingulate Gyrus</b>	<b>Cognitive control</b>	
	<b>Emotional Processing</b>	
<b>Postcentral Gyrus (primary somatosensory cortex or S1)</b>	<b>Somatosensory processing</b>	
	<b>Spatial discrimination</b>	
<b>Precentral Gyrus (primary motor cortex or M1)</b>	<b>Motor planning</b>	
	<b>Execution of voluntary movements</b>	

Precuneous Cortex	Self-processing  And  Visuospatial processing	
Subcallosal Cortex	Emotional regulation  Reward processing	
Superior Frontal Gyrus	Cognitive control  Working memory	
Supracalcarine Cortex	Visual processing  Perception of spatial frequency	
Total Number of Regions		16

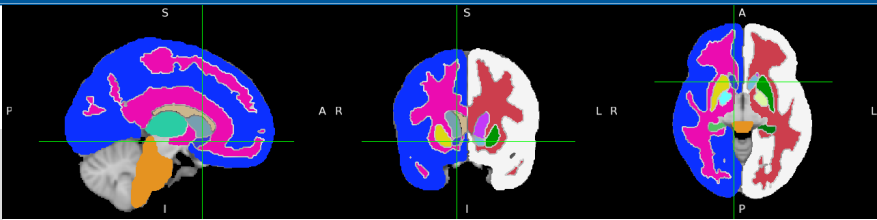
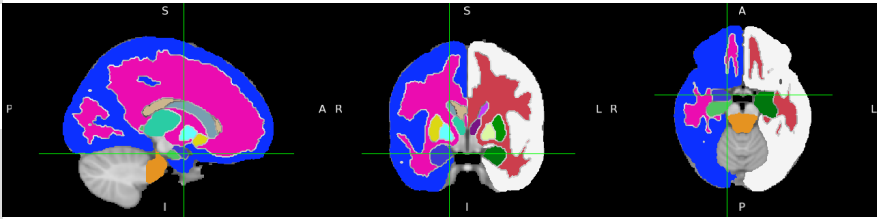
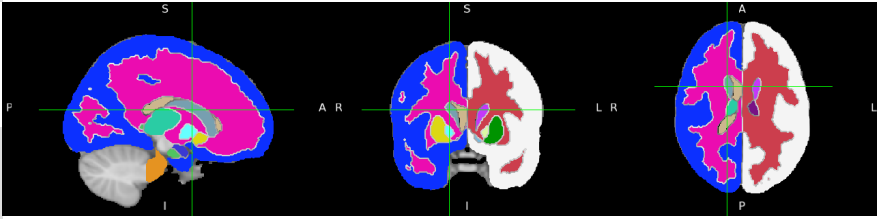
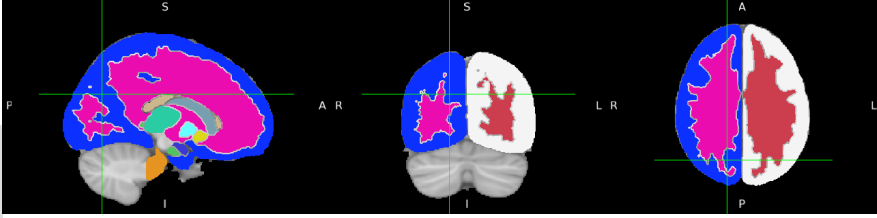
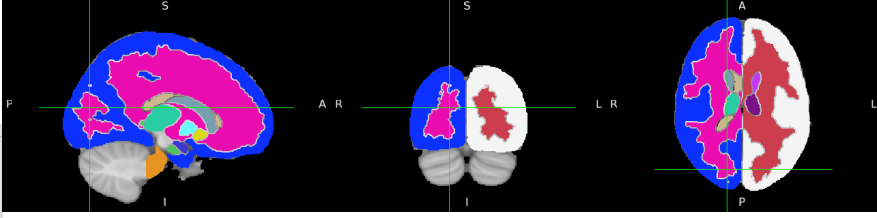
## Harvard-Oxford Sub-cortical Structural Atlas: Left:

Region Name	Two Main Functions	Screenshot
Left Accumbens (nucleus accumbens)	Reward processing	
	Motivation	
Left Amygdala	Emotional processing	
	Emotional memory	

Left Caudate	Motor control	
	Cognitive flexibility.	
Left Cerebral Cortex	Language processing	
	Logical reasoning	
Left Cerebral White Matter	Communication between brain regions	
	Processing of language-related information	
Left Hippocampus	Spatial navigation	
	Memory consolidation	
Left Lateral Ventricle	Production and circulation of cerebrospinal fluid (CSF)	
	Support for brain structure.	
Left Pallidum (Globus Pallidus)	Motor control	
	Reward processing	
Left Putamen	Motor control	
	Procedural learning.	

Left Thalamus	Sensory relay  AND  Processing of sensory information	
Total Number of Regions	10	

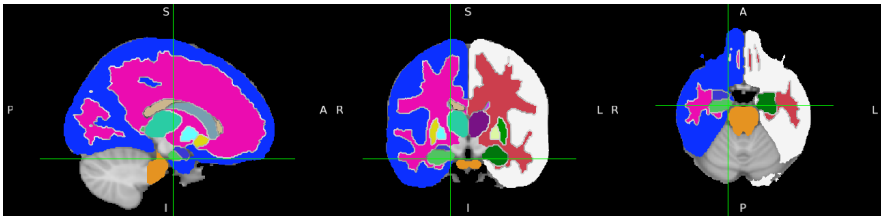
## Right:

Region Name	Two Main Functions	Screenshot
Right Accumbens (nucleus accumbens)	Reward processing	
	Motivation	
Right Amygdala	Emotional processing	
	Emotional memory	
Right Caudate	Motor control	
	Reward-based learning	
Right Cerebral Cortex	Spatial processing	
	Creative thinking	
Right Cerebral White Matter	Communication between brain regions	
	Processing of sensory information	

**Right Hippocampus**      **Spatial navigation**

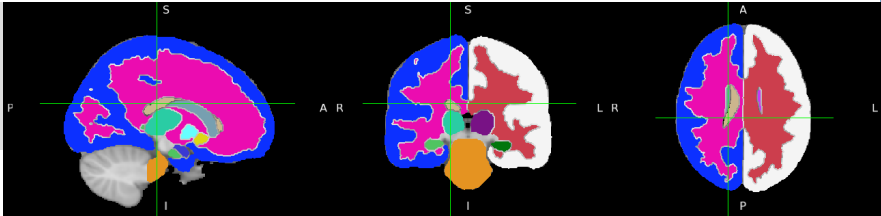
**AND**

**Memory consolidation**



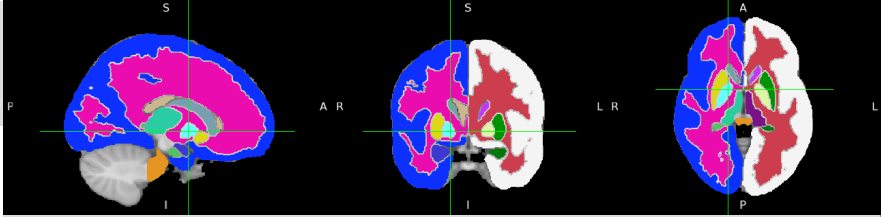
**Right Lateral Ventricle**      **Production and circulation of cerebrospinal fluid (CSF)**

**Support for brain structure.**



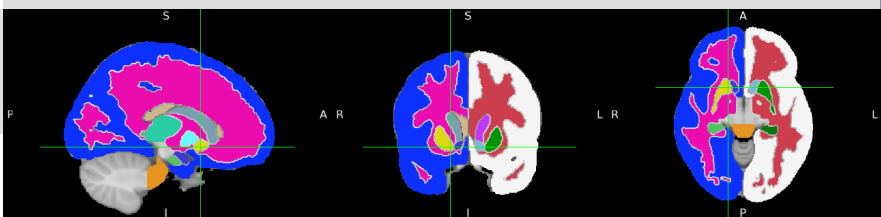
**Right Pallidum (Globus Pallidus)**      **Motor control**

**Reward processing**



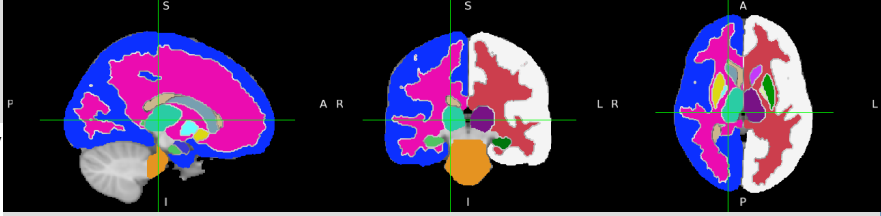
**Right Putamen**      **Motor control**

**Learning from rewards and punishments**



**Right Thalamus**      **Sensory relay**

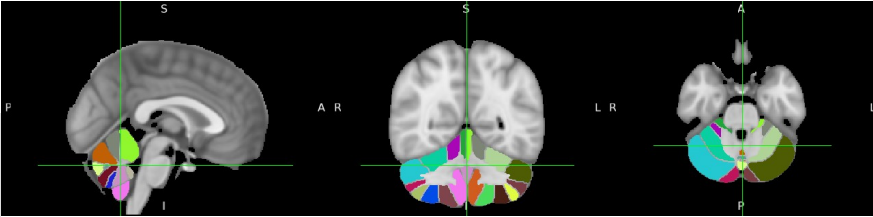
**Processing of sensory information**



**Total Number of Regions**      **10**



## Cerebellum & Brainstem:

Region Name	Two main functions	Screenshot
Cerebellum	<p>Motor coordination and balance</p> <p>Learning and memory related to motor skills</p>	
Brainstem	<p>Regulation of vital functions such as breathing and heart rate.</p> <p>Transmission of neural signals between the brain and the rest of the body</p>	

