

# Research on Human Senses [Research]

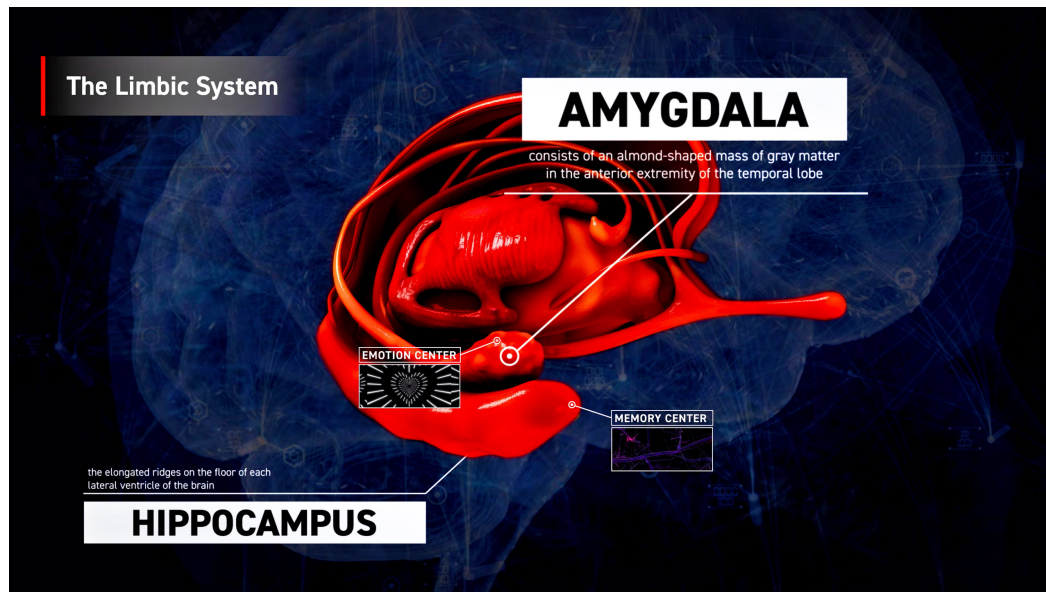
How Sound Triggers Human Emotion

Posted by Stephen Arnold Music on January 14, 2022

<https://stephenarnoldmusic.com/science-of-sound/>

The video purpose is to teach about sonic branding.

Photos from Video



"In the first few hours of baby's birth every single sound is programmed in a small nucleus called

'dorsalis gluteus'

gate way between ear and the brain

connected to other areas of the brain called 'the limbic system'

Hippocampus: centre of our memory learning and associative learning

Amygdala: Centre of our pure emotions, Love hate fear enjoyment rage but it's extremely sensitive to sound.

How the body understands what to do."

dorsalis gluteus

"Nucleus proprius constitutes the dorsal horn and receives input from the dorsal root ganglions that carry sensory information, such as light touch, as well as pain and temperature information"

(<https://www.ebi.ac.uk/ols4/ontologies/uberon/classes/>

[http%253A%252F%252Fpurl.obolibrary.org%252Fobo%252FUBERON\\_001661](http%253A%252F%252Fpurl.obolibrary.org%252Fobo%252FUBERON_001661)

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## **2-Minute Neuroscience: The Hippocampus**

<https://www.youtube.com/watch?v=5EyaGR8GGhs>

"Temporal lobe of each cerebral hemisphere."

"The name hippocampus comes from the Greek for 'seahorse' because when it is removed from the brain it vaguely resembles a seahorse."

"Although it has many functions, the hippocampus is best known for its role in memory."

## **2-Minute Neuroscience: Amygdala**

<https://www.youtube.com/watch?v=JVvMSwsOXPw>

"Amygdala is a collection of nuclei found in the temporal lobe. There are two amygdalae, one in each cerebral hemisphere."

"The term amygdala means 'almond', referring to one of the most prominent nuclei of the amygdala that has an almond-like shape."

Almond is a plant.

"The amygdala has traditionally been considered part of the limbic system, a group of structures linked to the processing of emotions."

"The amygdala has historically been best known for its role in processing fearful emotions. When a threatening stimulus is present in the environment, it is thought that the amygdala is also involved in identifying it as a threat and initiating a fight-or-flight response to it."

"More recent evidence, however, indicates that the amygdala is active during the processing of positive stimuli as well. Thus, it is now thought the amygdala's role is more complex than that of a 'threat detector'."

"It may be involved with assigning positive or negative value to stimuli and with the consolidation of memories that have a strong positive or negative emotional component."

"It is also still being explored in a variety of other behaviors ranging from addiction to social interaction."

## **Communication Between the Amygdala and the Frontal Lobe**

<https://www.youtube.com/watch?v=Loleha5EbEo>

A study that researchers performed if a viewer saw a blue square this means they would be shocked. When a blue square was shown they didn't get shocked

however they brains reacted ina fligh-or-flight respose. The brain has the abilty that the frontal lobe can be told how to react from spoken infomation.

**Joe Rogan on WiFi radiation can cause cancer - Robert Kennedy, Jr. | JRE #1999**

[https://www.youtube.com/watch?v=Z-YQ1Y7c\\_Pk](https://www.youtube.com/watch?v=Z-YQ1Y7c_Pk)

Opens your blood brain barriair. Which allows negitive toxins into your brain.

"How does this affect biology on Earth? The mammalian brain is protected by the blood-brain barrier, which prevents harmful substances from reaching the brain tissue. There is evidence that exposure to electromagnetic fields at non thermal levels disrupts this barrier." (<https://pubmed.ncbi.nlm.nih.gov/18568929/>

#:~:text=How%20does%20this%20affect%20biology,thermal%20levels%20disrupts%20this%20barrier.)