

What Causes Stuttering & Treatment for Stutter | Dr. Erich Jarvis & Dr. Andrew Huberman

<https://silosolo.com/354143>

Summary

The video discusses the development of treatments for stuttering, focusing on research conducted on stuttering in songbirds. It is found that damage to the basal ganglia, specifically the striatum, in songbirds leads to stuttering. The recovery of songbirds from stuttering is attributed to neurogenesis in their brains, which is not present in human or mammal brains. This discovery is connected to neurogenic stuttering in humans, where damage or disruption to the basal ganglia, particularly the speech part, can cause stuttering. The video mentions that adults with a stutter can repair their stutter through therapy, such as learning how to speak slower and tapping out a rhythm. Additionally, the video explores theories on why people might finish others' sentences, including the motor theory of speech perception and turn taking in conversation for social bonding.

Silo sample questions

- What is the neurobiological basis of stuttering in songbirds?
- Why do songbirds recover from stuttering after brain region damage?
- What is neurogenic stuttering in humans?
- How can adults with a stutter repair their stutter?
- What are some theories on why people might finish others' sentences?

Topics

Stuttering

Basal ganglia

Neurogenesis

Neurogenic stuttering

Therapy for stuttering

Finishing others' sentences

Key Takeaways

- Stuttering in songbirds is caused by damage to the basal ganglia, specifically the striatum, which affects the coordination of movements and learning how to make movements.
- Songbirds recover from stuttering after brain region damage because their brains undergo new neurogenesis, which human or mammal brains do not experience.
- Neurogenic stuttering in humans refers to stuttering caused by damage or disruption to the basal ganglia, particularly the speech part.
- Adults with a stutter can repair their stutter through therapy, such as learning how to speak slower and tapping out a rhythm.
- There are theories that suggest finishing others' sentences might be due to the motor theory of speech perception, where what is heard activates the speech circuit and muscles, or it

could be related to turn taking in conversation and social bonding.

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