عنوان مقاله:

Circuit Mechanisms of Selective Attention: Top-Down Enhancement of Visual Representation in the Brain

محل انتشار:

اولین کنگره بین المللی علوم اعصاب (نوروتکنولوژی و نقشه برداری مغزی) (سال: 1397)

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خلاصه مقاله:

Attention is cognitive process of selective concentrating on important aspect of information in expense of ignoring other. Deliberate focalization on goal-related sensory inputs is a fundamental component of selective attention that enhances sensory representation in the brain. I will specifically discuss two separate sets of experiments: 1) we electrically stimulated the barn owl forebrain gaze area while recording neural responses to visual stimuli in midbrain; 2) we optogenetically stimulated feedback projections from visual area V4 to V1 while recording V1 responses to visual stimuli. I will discuss our findings about the way that top-down signal modulates responses in the lower visual areas.

کلمات کلیدی:

Circuit mechanisms, Selective attention, Visual representation

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