Linking Perception, Memory and Action

Research

What do we study? (one example)

The visual image is heavily blurred in the periphery (the fovea, a region with highest visual acuity, is limited to the central ~2 degrees of the visual field). One of our means to compensate for this limitation is to constantly scan the visual scene, making about 3 saccades in a second, thereby generating a novel retinal image is changing with every new eye movement. Incredibly, our brain seamlessly generates a stable representation of the visual scene in spite of this jerky and incomplete visual information. This perceptual stability is so robust that we live in an illusion that we see everything at the highest precision all at once.

How does our brain perform this?
The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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