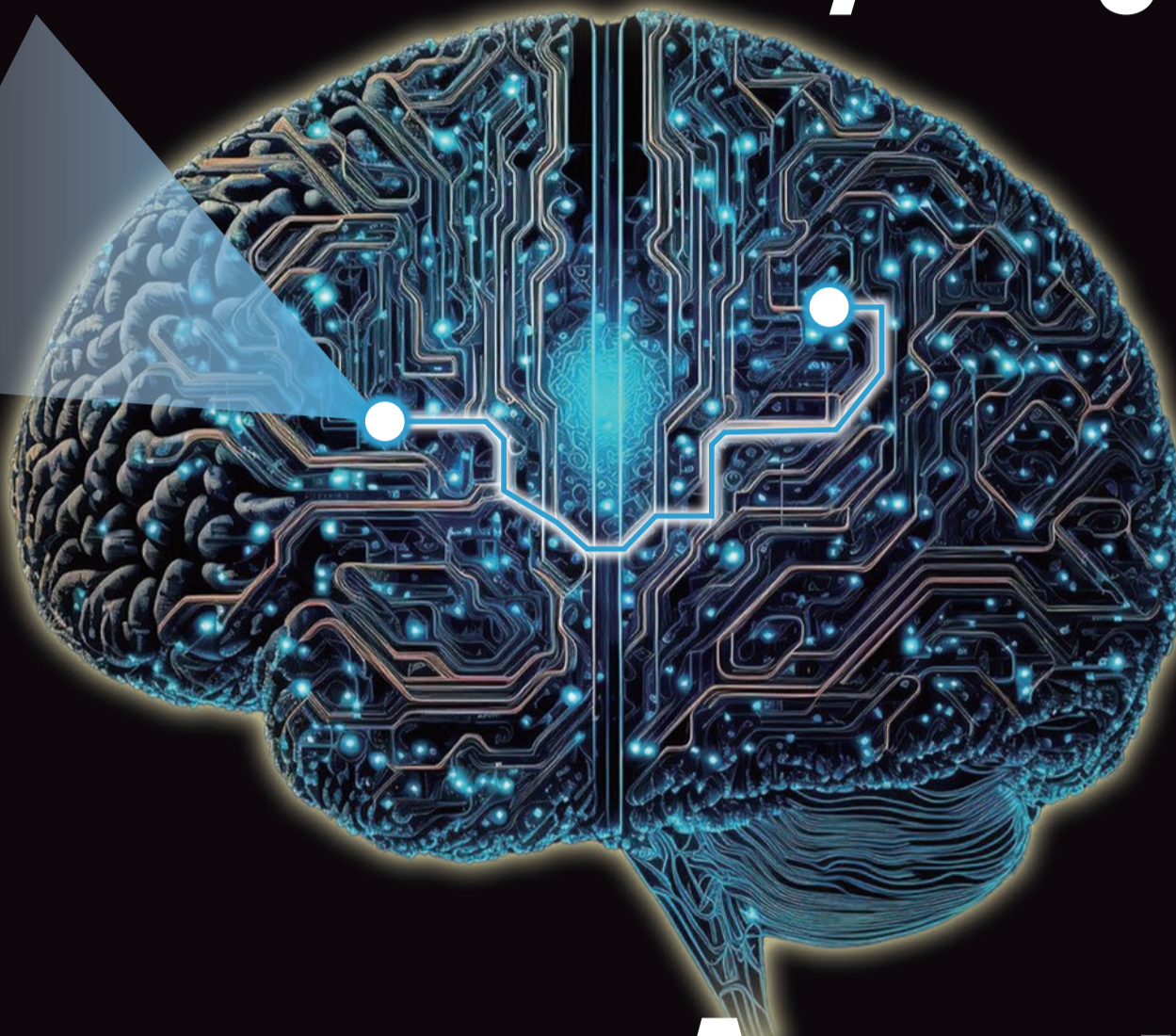
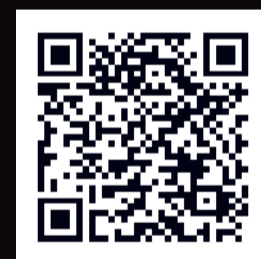


OIST Presidential Lecture 2024

# Why our brains are more flexible when we are younger



**Fri., August 2**



**10:30 – 12:00 B250** Sydney Brenner Lecture Theater



Brain plasticity in the adult mammalian brain is different from that in early life. Why? What mechanisms account for this difference? We have studied this issue recently in the primary visual cortex of mice and previously in other species. In adult mice, we discovered that activity-dependent plasticity depends on the operation of a cortical circuit composed of specific types of inhibitory interneurons. In contrast, juvenile animals exhibit rapid competitive plasticity during a critical period in early life, which we have shown to depend on several distinct mechanisms, some of which disappear at the end of the critical period.

## Prof. Michael Stryker

Michael Stryker is the William Francis Ganong Professor of Physiology at the University of California, San Francisco. He is the recipient of the W. Alden Spencer Prize from Columbia University and the 2023 Ralph W. Gerard Prize from the Society for Neuroscience.

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