

# BDR SEMINAR (Kobe & online hybrid)

**Adi Mizrahi**

The Hebrew University of Jerusalem

**Friday, April 11, 2025**

11:00-12:00

1F Auditorium, DB Building C, Kobe / Broadcast online via Zoom

Zoom meeting URL will be announced on the event day by e-mail.

※Non-BDR members: Please register from the following link.

<https://krs2.riken.jp/m/bdrseminarregistration> (Registration deadline: Mar 7)

## **Bridging Nature and Nurture: Insights from Parenting**

### **Summary**

We study the neural mechanisms underlying the interplay between innate predispositions and learned experiences. While millions of years of evolution have shaped the development of neural circuits to support specific behaviors, these same circuits remain flexible, allowing for adaptation environmental changes through plasticity. This interaction, however, remains poorly understood. To investigate this interaction, we focus on parenthood—a phase in an animal's life that is thought to drive innate behaviors while also presenting a window of opportunity for neural adaptation. I will discuss our work on mothers and fathers through the prism of cortical auditory circuits. We use behavioral analysis, neural tracing and physiology to find that different brain areas as well as different sexes, undergo unique plastic changes to support the seemingly shared behavioral goal.