



אוניברסיטת בן-גוריון בנגב
Ben-Gurion University of the Negev



המרכז הלאומי ע"ש עזריאלי
לחקר אוטיזם ונוירו-התפתחות

מקבוצת
כללית



הזמנה לפורום אוטיזם

המרכז הלאומי ע"ש עזריאלי לחקר אוטיזם ונוירו התפתחות שמח להזמין אותך לפורום האוטיזם הקרוב

הנושא של ההרצאה:

Sensory processing and perception in mouse models of ASD

קצת על המרצה

Dr. Jennifer Resnik is a neuroscientist and senior lecturer in the Department of Life Sciences at Ben-Gurion University of the Negev. Dr. Resnik earned her B.Sc. in Life and Medical Sciences from Tel Aviv University, followed by a Master's and Ph.D. from the Weizmann Institute of Science, where she explored stimulus generalization in aversive learning contexts, including models of PTSD. She completed her postdoctoral fellowship at Harvard Medical School's Massachusetts Eye and Ear Infirmary in the Polley Lab, focusing on plasticity and compensatory mechanisms in the adult auditory system.

תקציר ההרצאה

Auditory hypersensitivity is a common and disruptive feature of autism spectrum disorder (ASD), yet the neural mechanisms underlying this altered perception remain poorly understood. To address this gap, we combine behavioral assays with two-photon calcium imaging in mouse models to investigate how sound processing and loudness perception are affected in ASD. In this talk, I will present our findings showing heightened cortical responses and altered perceptual thresholds in ASD mice, pointing to changes in how sound intensity is encoded in the auditory cortex. By comparing neural activity and behavioral responses across genotypes and by manipulating specific cell types, we aim to uncover the circuit mechanisms driving these changes. Our goal is to identify shared neural signatures of sensory dysfunction in ASD and inform the development of targeted interventions.

יום שלישי, 4.11.2025

12:00-13:00 | אוניברסיטת בן-גוריון בנגב, בניין הסנאט, חדר ישיבות 136-

לבירורים: 08-6428783 או 052-8355015

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