



אוניברסיטת בן-גוריון בנגב
Ben-Gurion University of the
Avram and Stella Goldstein-Goren Department
of Biotechnology Engineering
SEMINAR



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May 12nd, 14:10, Building 51 – Auditorium Nano

**EXAMINING THE AGE-RELATED IMPACT OF SIRT1 CLEAVAGE IN THE JOINT
AND BEYOND**

The NAD-dependent deacetylase is a highly networked enzyme involved in various processes through deacetylating histone and non-histone protein targets. Among its functions is the maintenance of joint and cartilage health. However, when joint inflammation persists, Sirt1 undergoes cleavage, and its deacetylase activity is compromised. Our group generated a mutant mouse that systemically expresses a Sirt1 enzyme, which cannot undergo cleavage, yet maintains its deacetylase activity. During the seminar, we will uncover some of the age-dependent changes that this mutant exhibit in the joint, as well as age-related metabolic aberrancies displayed in these mutant mice.

Host:

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