

Roi Gazit, PhD. is the Ilse Katz Career Development Chair in Health Sciences, and Principal Investigator of Hematopoietic Stem Cell (HSC) transcriptome laboratory at the Ben-Gurion University of the Negev. He is a member of the National Institute for Biotechnology in the Negev (NIBN), and the Center for Regenerative Medicine and Stem Cells at BGU.

Roi earned a B.Sc. and M.Sc. in life science and developmental biology from the Hebrew University of Jerusalem. He obtained PhD in immunology, under supervision of Ofer Mandelboim, studying NK-cell in vivo, including the generation of the first NK specific mouse model and elucidation of novel NK-cell abnormalities in human patients. He conducted postdoctoral studies at the Harvard Medical School, at Derrick Rossi laboratory, focusing on the identification and utilization of HSCs' genes, including reprogramming of committed blood cells into HSCs using defined transcription-factors and generation of a novel HSC-reporter mouse. His laboratory at the Ben-Gurion University is studying HSCs' transcriptome along normal development , during immune-challenges, and the direct reprogramming of adult blood cells into HSCs.

Current research interests of Gazit lab includes:

1. Transcriptional regulation of HSCs, and reprogramming into HSC-state
2. Immune-activation impact on HSCs
3. Generate novel leukemia models, and identify Leukemia-Initiating-Cells in immune competent mice