

Yuval Barzilay

PhD candidate at Weizmann Institute of Science

A passionate PhD candidate with expertise in microscopy, molecular biology, and tissue culture. My strengths include hard work, curiosity and eagerness to learn new things in every aspect of my life. Throughout my career, I have collaborated with teams, employing creative problem-solving skills and innovative thinking to accomplish objectives

First year as a PhD candidate in molecular genetic

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Ramat Gan, Tel Aviv district

Hebrew - Native

English - Fluent

Spanish – intermediate

Programming

Python

R

Microsoft office

Laboratory Skills

PCR

Bioinformatics Tools

Genetic Engineering

Confocal + TIRF Microscopy

Cell culture – cancer and neuronal cells

PROFESSIONAL EXPERIENCE

- Dr. Dvir Gur Lab - Development and cell biology of crystal-forming cells** 2022-Now
 - Investigating the molecular mechanism behind uric acid crystal formation in pigment cells.
 - Utilizing cryo-electron microscopy, super-resolution light microscopy, and spectroscopy for cell identification and analysis.
- Dr. Efrat Shema Lab - Epigenetic changes in mutant IDH tumor** 2022-2022
 - Decipher the epigenome of IDH mutation-driven gliomas.
 - Utilized an IDH inhibitor to target genes with unique expression patterns.
 - Observed transcriptomic alterations in glial cells.
- Professor Yosef (Yossi) Yarden Lab -Regulation of signal transduction by non-coding RNAs** 2021-2022
 - Investigating the impact of circular RNA on cancer cells.
- Undergraduate Research Assistant-The National Institute for Biotechnology in the Negev (NIBN)** 2019-2021
 - Conduction research regarding the general subject of the lab.

EDUCATION

- PhD candidate in Molecular genetics** 2023-Now
PhD candidate at *Weizmann Institute of Science*
- MSc in Molecular genetics** 2021-2023
Master's degree at *Weizmann Institute of Science*
- B.Sc in Life Science** 2018-2021
Excellence program-"Ashalim" at *Ben-Gurion University*.
GPA: 90

IDF service

- Deputy Company Commander- Classified Unit, Air Force** 2015-2016
 - Partner in the establishment of a combat unit in the IDF and planning operative objectives.
 - Learning professional material in a short time.
- Officer in the Paratroopers Brigade, battalion 890** 2013-2015
 - Ongoing work with the company commander.
 - Commander of three sergeant, one first sergeant and 30 soldiers through routine tasks and combat situation.