



NAME OF LABORATORY: Molecular Mycology Laboratory

PI: Dr. Ronen Ben-Ami MD

Director Department: Dr. Ronen Ben-Ami MD

Research Objectives: Our Lab deals with pathogenic fungi that cause life-threatening infections in humans, mostly immunosuppressed individuals. We aim to characterize mechanisms of virulence and invasion, as well as novel determinants of resistance to antifungal drugs. Our work combines "wet" mycology, clinical and epidemiological research, with genomic tools, population analysis, cell cultures and animal models of fungal infection.

Main Research topics:

- Hetero resistance in the pathogenic yeast *Candida glabrata*
- Angioinvasiveness and modulation of angiogenesis by *Aspergillus fumigatus*
- Epidemiology of invasive mold infections and antifungal resistance among pathogenic molds in Israel – a prospective national survey

Staff: Ana Novikov, Yael Shachor

Active Grants: Israeli Science Foundation - **ISF**

Collaborations:

- Prof. Nir Osherov, Sackler School of Medicine, Tel Aviv University
- Prof. Judith Berman, George Weiss Faculty of Life Sciences, Tel Aviv University

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