

**Research & Services | Biogeochemical Laboratory for Culturing and Experimenting with Foraminifera and Corals (Yisum)**

**code:** 34-2007-1754

[Jonathan Erez](#), HUJI, Faculty of Science, The Institute of Earth Sciences

**Categories**

Foraminifera, corals, stable isotopes, coral isotopes, biomineralization

**Objective/function**

- The laboratory focuses on
- Biomineralization mechanisms, internal carbon and calcium cycling in marine symbiotic associations (foraminifera and corals)
- Experimental studies on stable isotopes and trace elements in live foraminifera and corals in order to develop new paleoceanographic proxies
- Carbon isotopic fractionation and carbon limitation in algae during photosynthesis
- Nutrient fluxes between coral reefs and the open ocean

**Research provided**

- Measurements of biomineralization rates of marine organisms under controlled conditions
- Video microscopy and confocal microscopy of the cellular and tissue processes involved in biomineralization of corals and foraminifera

**Advantages**

- A highly skilled, renowned researcher utilizing state-of-the-art equipment and technologies

**Available equipment**

- Video fluorescence microscopy and spectral microscopy system
- Confocal microscopy
- Microelectrodes for Oxygen pH and Ca<sup>2+</sup>
- Mass spectrometry for C and O isotopes

**Staff**

- Jonathan Erez, PhD

**Contact**

- Jonathan Erez, PhD [erez@vms.huji.ac.il](mailto:erez@vms.huji.ac.il)
- Link to homepage <http://earth.huji.ac.il/facilities-in.asp?id=26>

**Contact for more information:**

Itzik Goldwasser , VP, Head of Research Collaborations, +972-2-6586685

Yissum Research Development Company of the Hebrew University of Jerusalem  
Hi-Tech Park, Edmond J. Safra Campus, Givat-Ram, Jerusalem P.O. Box 39135, Jerusalem 91390  
Israel Telephone: 972-2-658-6688, Fax: 972-2-658-6689