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

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 or the cellular and tissue processes involved in biomineralization of corals and foraminifera

Advantages

- A highly skilled, renown 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 Ca2+
- Mass spectrometry for C and O isotopes

Staff

- Jonathan Erez, PhD

Contact

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- Link to homepage http://earth.huji.ac.il/facilities-in.asp?id=26

Contact for more information:

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