

Curriculum Vitae

Name: Omri Bronstein
Born: September 9th, 1976, Israel
Nationality: Israeli
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Date and place of birth: 9 Sep. 1976, Tel-Aviv, Israel
Home Address: 43 Ben-Zvi Blvd., Ramat-Gan , 52247 Israel
Marital status: Married
Military Service: Mar.1995 - Oct. 1998 IDF

Research interest

Biology, ecology, systematics, and natural history of Echinoderms. Echinoid population dynamics, biodiversity and biogeography, especially on coral reefs. Marine speciation, phylogeography and population structure of echinoids.

Education

2003-2006 B.Sc. (Biology), Faculty of Life Sciences Tel-Aviv University, Israel.
Magna cum laude

2005-2006 Internship- Prof. Yossi Loya's Lab.
Topic: "Ecology of the ascidian *Botryllus eilatensis* in the coral reef of Eilat"
* Results of this project were published in: Shenkar N., **O. Bronstein** and Y. Loya (2008).

2006-2009 M.Sc. (Biology), Faculty of Life Sciences Tel-Aviv University, Israel.

Magna cum laude

Topic: “Morphological and molecular aspects of sea urchins (genus *Echinometra*) from Okinawa, Zanzibar and Eilat”

Advisor: Prof. Y. Loya

2009-2014 Ph.D. (Biology), Faculty of Life Sciences Tel-Aviv University, Israel.

Topic: “Ecology, biology and taxonomy of coral reef associated sea urchins in the Red Sea and Western Indian Ocean”

Advisor: Prof. Y. Loya

2014-Present Postdoctoral research, The Steinhardt Museum of Natural History and National Research Center, Israel.

Topic: “Taxonomic study of echinoid fauna along the Israeli coast”

Publications

Shenkar N., **O. Bronstein** and Y. Loya (2008). Population dynamics of a coral reef ascidian in a deteriorating environment (Mar. Ecol. Prog. Ser. 367: 163-171)

Alamaru A., **O. Bronstein**, G. Dishon and Y. Loya (2009). Opportunistic feeding by the fungiid coral *Fungia scruposa* on the jellyfish *Aurelia aurita* (Coral Reefs 28(4): 865-865)

Bronstein O. and Y. Loya (2011). Daytime spawning of *Porites rus* on the coral reefs of Chumbe Island in Zanzibar, Western Indian Ocean (Coral Reefs 30(2): 441-441)

Bronstein O. and Y. Loya (2013). The taxonomy and phylogeny of *Echinometra* from the Red Sea and Western Indian Ocean (*PLoS ONE* 8(10): e77374)

Bronstein O. and Y. Loya (2014). Echinoid community structure and rates of herbivory and bioerosion on exposed and sheltered reefs (*JEMBE* 456:8-17)

Bronstein O. and Y. Loya (2014). Photoperiod, temperature, and food availability as drivers of the annual reproductive cycle of the sea urchin *Echinometra* sp. from the Gulf of Aqaba (Red Sea) (Under review in *Coral Reefs*)

Downs C.A., Kramarsky-Winter E., Fauth J.E., Segal R., **Bronstein O.**, Jeger R., Lichtenfeld Y., Woodley C.M., Pennington P., Kushmaro A. and Y. Loya

(2013). Toxicological effects of the sunscreen UV filter, benzophenone-2, on planulae and in vitro cells of the coral, *Stylophora pistillata* (*Ecotoxicology* DOI 10.1007/s10646-013-1161-y)

Bronstein O. and Y. Loya (2014). The reproductive periodicities of *Diadema setosum* (Leske, 1778) from the Gulf of Aqaba, Red Sea (In preparation to *Marine Biology*)

Teaching and professional experience

- 1998-Present Diving Instructor in the following organizations: PADI; CMAS; ANDI
ANDI Technical diver, TDI Trimix diver and ANDI Mixed gasses
(Nitrox) Instructor
- 2006-2009 The IOC-GEF/World Bank Working Group on Coral Bleaching and
Local Ecological Responses, Zanzibar, Tanzania
- July 2006 Marine Invertebrate Zoology summer course
Friday Harbor Laboratories, University of Washington, USA
- 2006-2007 Teaching assistant: Vertebrates – Advanced course, Dept. of
Zoology Tel- Aviv University
- Jul-Aug 2007 The 21st Century COE International Summer Program, University of the
Ryukyus, Okinawa, Japan. **Title of lecture:** "Sex ratio and community
structure in the sea urchin genus *Echinometra*"
- Apr 2008 The IOC-GEF/World Bank Working Group on Coral Bleaching and
Local Ecological Responses, Zanzibar, Tanzania. **Title of lecture:** "The
effect of sea urchins on local coral communities"
- 2007-2008 Teaching assistant: Invertebrates zoology, comparative function aspects
Advanced course, Dept. of Zoology Tel- Aviv University
- July 2008 (CRTR) Coral Reef Targeted Research and Capacity Building for
Management program Mini-workshop on data analysis and research
objectives. Ft. Lauderdale, Florida, USA. **Title of lecture:** "The effect of
sea urchins on the coral reefs of Zanzibar"
- July 2008 The 11th ICRS (Coral Reef Symposium). Ft. Lauderdale, Florida, USA

- Sep 2008 Workshop on the use of molecular techniques (with emphasis on AFLP) for the study of connectivity in marine ecological systems. Södertörns Högskola, Stockholm, Sweden. **Title of lecture:** "The effect of sea urchins on local coral communities"
- 2008-2009 Assistant: Invertebrates zoology, comparative function aspects
Advanced course, Dept. of Zoology Tel- Aviv University
- May 2009 The IOC-GEF/World Bank Working Group on Coral Bleaching and Local Ecological Responses, Heron Island, Australia
- 2009-2012 Assistant: Invertebrates zoology, comparative function aspects
Advanced course, Dept. of Zoology Tel- Aviv University
- July 2012 The 12th ICERS (Coral Reef Symposium). Cairns, Queensland, Australia.
Title of lecture: "Molecular taxonomy reveals new *Echinometra* species"
- March 2014 Research collaboration at The Natural History Museum Vienne, Austria.
Project title: "The molecular and morphological taxonomy of Red Sea *Tripneustes gratilla* (Linnaeus 1758)"
- May 2014 The 11th IAAS (The Israeli Association for Aquatic Sciences). Tel Aviv, Israel. **Title of lecture:** "Echinoid community structure and rates of herbivory and bioerosion on exposed and sheltered reefs"

Scholarships and Awards

- 2006 Friday Harbor Laboratories University of Washington, Fellowship for tuition and course related expenses, for the course "Marine Invertebrates Zoology"
- 2009 The 'Rami Levin' award for excellence in research and teaching. Tel-Aviv University, 2009
- 2006-2011 World bank fellowship for Project on Coral Bleaching and Local Ecological Responses, Zanzibar, Tanzania
- 2012 Adesman scholarship, Tel Aviv University

- 2012 International Society for Reef Studies (ISRS) student award for the 12th International Coral Reef Symposium
- 2013 The Interuniversity Institute for Marine Sciences in Eilat PhD student's research award
- 2014 SYNTHESYS – Grant provided for a joint molecular and taxonomic study at the Natural History Museum Vienna, Austria
- 2014 Best lecture award at the IAAS (The Israeli Association for Aquatic Sciences) 11th annual conference

Abstracts

- Shenkar N., **Bronstein O.** and Y. Loya (2007) Seasonal appearance of the colonial ascidian *Botryllus eilatensis*. Proceedings of the 43th meeting of the Zoological Society of Israel. Israel Journal of Zoology. Israel Journal of Ecology & Evolution
- Bronstein O.** and Y. Loya (2008) The sea urchins of Zanzibar and their effect on local coral communities. Abstract book of the 11th International Coral Reef Symposium, Ft. Lauderdale, USA. p. 355
- Shenkar N., **O. Bronstein** and Y. Loya (2008) The rise and fall of a coral reef ascidian. Abstract book of the 11th International Coral Reef Symposium, Ft. Lauderdale, USA. p. 80
- Bronstein O.** and Y. Loya (2010) A new species of sea urchins from the genus *Echinometra* in the Gulf of Aqaba and Western Indian Ocean. Proceedings of the 7th meeting of the Israeli Association for Aquatic Sciences (IAAS)
- Bronstein O.** and Y. Loya (2012) "Molecular taxonomy reveals new *Echinometra* species". Abstract book of the 12th International Coral Reef Symposium, Cairns, Queensland, Australia. p. 38
- Bronstein O.** and Y. Loya (2014) "Echinoid community structure and rates of herbivory and bioerosion on exposed and sheltered reefs". Proceedings of the 11th conference of the Israeli Association for Aquatic Sciences (IAAS)
- Bronstein O.** and Y. Loya (2014) "Photoperiod, temperature and food availability as

drivers of the annual reproductive cycle of the sea urchin *Echinometra* sp. from the Gulf of Aqaba (Red Sea)". Proceedings of the 11th conference of The Israeli Association for Aquatic Sciences (IAAS)

Referees

Prof. Yossi Loya
Professor of Marine Biology
The Raynor Chair for Environmental conservation Research
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Tel Aviv, 69978 Israel
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