

BIOGRAPHICAL SKETCH

Nanette E. Chadwick, Associate Professor, Department of Biological Sciences,
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Education: University of California at Santa Barbara, BA 1980, Biological Sciences

University of California at Berkeley, PhD 1988, Zoology

Stanford University, 1989-1991 Postdoctoral Fellow

Tel Aviv University, 1992-1993 Postdoctoral Fellow

Professional Experience:

1994-2000: Assistant Professor, Faculty of Life Sciences, Bar Ilan University, Israel

2001-2004: Associate Professor, Faculty of Life Sciences, Bar Ilan University, Israel

2004- : Associate Professor, Department of Biological Sciences, Auburn University,
(untentured, up for tenure in 2008)

Honors: 1988: Outstanding Student Instructor Award, University of California at Berkeley

1999: Distinguished Alumna, Mills College

2000-2001: Visiting Scholar, University of California at Berkeley

2005: Competitive Research Award, Auburn University

2006: Dean's Research Initiative Award, Auburn University

Professional Societies:

Society for Integrative and Comparative Biology

International Society for Reef Studies

International Symbiosis Society

Publications most closely related to proposed research:

Guzner B, Novoplansky A, **Chadwick NE** (2007) Population dynamics of the reef-building coral
Acropora hemprichii as an indicator of reef condition. *Mar. Ecol. Prog. Ser.* (in press)

Kuguru B, Winters G, Santos SR, Beer S, **Chadwick NE** (2007) Adaptation strategies of the
corallimorpharian *Rhodactis rhodostoma* to irradiance and temperature. *Mar. Biol.* Online First
DOI 10.1007/s00227-006-0589-5.

Chadwick NE, Arvedlund M (2005) Abundance of giant sea anemones and patterns of association with
anemonefish in the northern Red Sea. *J. Mar. Biol. Assoc. U. K.* 85: 1287-1292

Porat D, **Chadwick-Furman NE** (2005) Effects of anemonefish on giant sea anemones: Ammonia
uptake, zooxanthella concentration and tissue regeneration. *Mar. Freshw. Behav. Physiol.* 38: 43-51

Porat D, **Chadwick-Furman NE** (2004) Effects of anemonefish on giant sea anemones: Expansion
behavior, growth and survival. *Hydrobiologia* 530/531: 513-520

Significant other related publications: anthozoan ecology and behavior.

Glassom D, **Chadwick NE** (2006) Recruitment, growth and mortality juvenile corals at Eilat, northern
Red Sea. *Mar. Ecol. Prog. Ser.* 318: 111-122

Glassom D, **Chadwick-Furman NE**, Zakai D (2005) Methods and interpretation of coral recruitment
studies: Effects of anthropogenic disturbance? *Mar. Poll. Bull.* 50: 1021-1025

Chomsky O, Kamenir Y, Hyams M, Dubinsky Z, **Chadwick-Furman NE** (2004) Effects of feeding
regime on growth rate in the Mediterranean sea anemone *Actinia equina* (Linnaeus). *J. Exp. Mar.
Biol. Ecol.* 299: 217-229

Chadwick-Furman NE, Goffredo S, Loya Y (2000) Growth and population dynamic model of the reef
coral *Fungia granulosa* at Eilat, northern Red Sea. *J. Exp. Mar. Biol. Ecol.* 249: 199-218

Chadwick NE (1991) Spatial distribution and the effects of competition on some temperate Scleractinia
and Corallimorpharia. *Mar. Ecol. Prog. Ser.* 70: 39-48

Publication summary: refereed journal articles: 39
book chapters: 2
invited reviews and symposium contributions: 2

Extramural Funding History:

Symbiont diversity and population dynamics of coral reef sea anemones. National Science Foundation: Virgin Islands Experimental Program to Stimulate Competitive Research (VI-EPSCoR). 2006-2007. \$35,772

Monitoring of Coral Reef Benthos - Research, Monitoring and Management Program for the Red Sea Marine Peace Park – Gulf of Aqaba/Eilat. Middle East Regional Cooperation Program, U.S. Agency for International Development (MERC-USAID). 1999-2003. \$25,000 (PI).

Space utilization by sea anemones on coral reefs: roles of competition and reproduction. Israel Science Foundation Award. 1995-1998. \$112,000 (PI).

Assessment of impacts of tourism on reef-building corals at Eilat. Society for the Protection of Nature in Israel. 1995-1996. \$50,000 (PI).

Population dynamics of free-living reef corals. Israeli Ministry of Immigrant Absorption. 1992-1994. \$25,000 (PI).

Invertebrate immunology: Allogeic interactions among colonial protochordates. American Association of Immunologists. 1990-1991. \$10,000 (PI).

Cancer Biology Training Grant: Evolution of invertebrate alloimmunity. National Institutes of Health, USA. 1990-1991. \$45,000 (PI).

Synergistic Activities:

Sponsor undergraduate research projects in the Marine Biology Program of Auburn University.

Serve as biology judge for scientific poster competitions of the Alabama Louis Stokes Alliance for Minority Participation (ALSAMP) Scholars/Bridge to the Doctorate Program.

Spent 8 years as adjunct faculty at the Arava Institute for Environmental Studies, Kibbutz Ketura, Israel, teaching courses on coral reef conservation and ecology in an international program for American, Israeli, Palestinian and Jordanian undergraduate and graduate students

Developed annotated species list and photographic field guide for sea anemones and stony corals of the northern Red Sea, for teaching marine science courses at Jordanian and Israeli universities, as part of the Red Sea Marine Peace Park Program, printed in English, Hebrew, and Arabic.

Developed database on giant sea anemones to support reef monitoring in the northern Red Sea:
<http://www.iui-eilat.ac.il/pp/metadata/SeaAnemonesDatabase.html>

Active Collaborators:

Stefano Goffredo (University of Bologna, Italy), Michael Arvedlund (University of the Ryukyus, Japan), Marc Mangel (University of California at Santa Cruz), Zvy Dubinsky (Bar Ilan University)

Graduate and Postdoctoral Advisors:

Roy L. Caldwell (Ph.D. co-advisor, University of California at Berkeley), Cadet Hand (Ph.D. co-advisor, retired), Yossi Loya (post-doctoral advisor, Tel Aviv University), Irving L. Weissman (postdoctoral advisor, Stanford University)

Graduate Students and Postdocs:

Modi Roopin, Drew Jones, Kathy Morrow, Michael Nelson (all at Auburn University), Baraka Kuguru, Keren-Or Amar, (both at Bar Ilan University), Barak Guzner (Weizman Institute, Israel), Dalit Porat and Osnat Chomsky (Israel Oceanographic Institute, Haifa) Jeffrey Wielgus (Arizona State Univ.), David Glassom (Oceanographic Research Institute, South Africa), David Zakai (Nature Protection Authority of Israel), Oren Levi (James Cook Univ., Australia), Olivia Langmead (Plymouth Marine Laboratory, United Kingdom), Dalit Mohar (Pollution Control Authority of Israel)