

Curriculum vitae

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Date & Place of Birth: 9 March 1948, Israel

ZAHAL (Israeli) Military Service: 1966-1969

Marital Status: Married, 2 children

A. EDUCATION

Period of Study (dates)	Name of University	Subject	Degree	Date of Award
1969-1972	Tel Aviv University	Biology	B.Sc.	1973
1973-1976	Tel Aviv University	Zoology	M.Sc.(with distinction)	1976
1977-1982	Tel Aviv University	Zoology	Ph.D.	1982

M.Sc. Thesis: Quantitative characteristics of community structure of stony corals, soft corals and algae in the northern Gulf of Eilat (Red Sea). Supervisor: Prof. Y. Loya

Ph.D. Thesis: Population dynamics of soft corals (Octocorallia, Alcyonacea) at the coral reefs of the Gulf of Eilat (Red Sea). Supervisor: Prof. Y. Loya

B. FURTHER STUDIES

Period of Study (dates)	Name of University	Subject	Degree
Nov. 1982 - Oct. 1983	Florida International Univ., Miami, Florida	Ultrastructure and pathology of octocorals	Post-Doctoral training

C. AREAS OF SCIENTIFIC INTEREST

Octocorallia: Biology and ecology, taxonomy, phylogeny, zoogeography, life history, symbiosis with zooxanthellae, ultrastructure, mesophotic octocorals, natural products and biomaterials, effect of global change, farming

Artificial reefs: Recruitment of invertebrates and fish, interaction with natural reefs, rehabilitation perspectives, ecosystem-restoration

Invertebrates: Biodiversity and ecology of Red Sea and eastern Mediterranean, invasive biology, biofouling and antifouling technologies

Leader and member of scientific collecting expeditions to the reefs of the Red Sea, South Africa, Kenya, Guam, Japan, Taiwan, Fiji, Palau, Singapore, Thailand, Hong Kong, Korea

Scuba diving: Since 1972 in numerous Indo-Pacific reefs

Museology: Curatorial responsibilities, managing scientific collections, developing educational programs

D. ACADEMIC AND PROFESSIONAL EXPERIENCE

Period (dates)	Name of Institution	Dept.	Rank/Function
Jan.-Feb. 1977	Rijksmuseum van Natuurlijke Historie (Leiden, Netherlands)		Visiting Investigator
Aug.-Oct. 1979	British Museum (London, UK); Muséum National d'Histoire Naturelle (Paris, France); Rijksmuseum van Natuurlijke Historie (Leiden, Netherlands)		Visiting Investigator
April-June 1982	Rijksmuseum van Natuurlijke Historie (Leiden) and Instituut voor Taxonomische Zoologie, Universiteit van Amsterdam (Netherlands)		Visiting Investigator
July-Aug. 1982	Natur Museum Senckenberg (Frankfurt); Zoologisches Institut and Museum (Hamburg, West Germany)		Visiting Investigator
Sept. 1982	Zoologisk Museum, Univ. of Kobenhavn (Copenhagen, Denmark)		Visiting Investigator
Aug.-Sept. 1984	Muséum National d'Histoire Naturelle (Paris, France)		Maitre – Assistant Associe
Oct. 1986	Rijksmuseum van Natuurlijke Historie (Leiden, Netherlands)		Visiting Investigator
Sept. 1987	Zoologisk Museum, Univ. of Copenhagen (Copenhagen, Denmark)		Visiting Investigator
Aug. 1989	British Museum (London, U.K.)		Visiting Investigator
July 1990	National Museum of Natural History (Leiden, Netherlands)		Visiting Investigator
July 1991	Oceanographic Research Institute (Durban, South Africa)		Visiting Investigator
Aug. 1991	National Museum of Natural History (Leiden, Netherlands)		Visiting Investigator
Oct. 1991	University of the Ryukyus Sesoko Marine Science Center (Okinawa, Japan)		Visiting Investigator
July 1992	Oceanographic Research Institute (Durban, South Africa)		Visiting Investigator
Nov. 1992	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Investigator
July 1993	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Investigator
Aug. 1993	Oceanographic Research Institute (Durban, South Africa)		Visiting Investigator
Sept. 1993	National Museum of Natural History (Leiden, Netherlands)		Visiting Investigator
June 1994	Institute of Oceanography National Taiwan University (Taipei, Taiwan)		Visiting Investigator

Oct. 1994	University of Guam Marine Laboratory (Mangilao, Guam)		Visiting Investigator
Nov. 1994	Oceanographic Research Institute (Durban, South Africa)		Visiting Investigator
July 1995	National Museum of Natural History (Leiden, Netherlands)		Visiting Investigator
Aug. 1995-Oct. 1996	University of Maryland, College Park, (MD, USA)		Visiting Professor
Sept. 1997	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
July 1998	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
Sept. 1998	Museum National d'Histoire Naturelle (Paris, France)		Visiting Professor
Nov. 1998	Academia Sinica, Institute of Zoology (Taipei, Taiwan)		Visiting Professor
July 1999	National University of Singapore		Visiting Professor
Nov. 1999	The University of Hong Kong		Visiting Professor
July-Aug. 2000	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Professor
Sept. 2001	Muséum National d'Histoire Naturelle (Paris, France)		Visiting Professor
Nov. 2002	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
Aug. 2003	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
July 2004	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Professor
July 2004	Ewha Womans University (Seoul, Korea)		Visiting Professor
July 2005	Academia Sinica, Institute of Zoology (Taipei, Taiwan)		Visiting Professor
July 2005	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Professor
Sept. 2005	Univ. of Hawaii at Manoa (Hawaii, USA)		Visiting Professor
Apr. 2006	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
July 2006	National Sun Yet-sen University (Kaohsiung, Taiwan)		Visiting Professor
July 2007	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Professor
Oct. 2007	Phuket Marine Biology Center (Phuket, Thailand)		Visiting Professor
Dec. 2008	Muséum National d'Histoire Naturelle (Paris, France)		Visiting Professor
Sept. 2008	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor
Feb. 2009	National Museum of Natural History (Leiden, Netherlands)		Visiting Professor

Mar. 2009	Natur Museum Senckenberg (Frankfurt, Germany)		Visiting Professor
July-Aug. 2009	Academia Sinica, Institute of Zoology (Taipei, Taiwan)		Visiting Professor
Nov.-Dec. 2009	Zoological Institute and Museum (Hamburg, Germany)		Visiting Professor
Apr. 2010	Zoological Museum, Univ. of Copenhagen (Denmark)		Visiting Professor
May 2010	British Museum of natural History (London, UK)		Visiting Professor
July 2010	Univ. of the Ryukyus (Okinawa, Japan)		Visiting Professor
Aug. 2010	Berlin Museum of Natural History (Germany)		Visiting Professor
Aug.-Sept. 2010	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
July 2011	Academia Sinica, Biodiversity Research Center (Taipei, Taiwan)		Visiting Professor
Aug.-Sept. 2011	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
Mar. 2012	British Museum of natural History (London, UK)		Visiting Professor
Apr. 2012	Natural History Mus., Vienna (Austria)		Visiting Professor
July-Aug. 2012	Academia Sinica, Biodiversity Research Center (Taipei, Taiwan)		Visiting Professor
Feb. 2013	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
Apr. 2013 May 2013	Smithsonian Institution, Washington, DC British Museum of natural History (London, UK)		Visiting Professor Visiting Professor
Apr. 2014	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
July-Aug. 2014	Academia Sinica, Biodiversity Research Center (Taipei, Taiwan)		Visiting Professor
Sep. 2014	Smithsonian Institution, National Museum of Natural History, Washington, DC		Visiting Professor
June-July 2015	Academia Sinica, Biodiversity Research Center (Taipei, Taiwan)		Visiting Professor
Aug.-Sept. 2015	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
Feb. 2016	Zoological Institute and Museum (Hamburg, Germany)		Visiting Professor

July-Aug. 2016	Academia Sinica, Biodiversity Research Center (Taipei, Taiwan)		Visiting Professor
Oct. 2016	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
Mar. 2017	Berlin Museum of Natural History (Germany)		Visiting Professor
July 2019	University of the Philippines		Visiting Professor
Oct. 2019	Academia Sinica, Taipei		Visiting Professor
Apr. 2022	National Center for Biodiversity, Naturalis (Leiden, Netherlands)		Visiting Professor
May 2022	MNHN, Paris France		Visiting Professor
June 2022	Berlin Museum of Natural History (Germany)		
Aug. 2022	Smithsonian Natural History Museum, (Washington DC, USA)		Visiting Professor
Nov. 2022	Natural History Museum Vienna, Austria		Visiting Professor
Nov. 2022	Department General, Analytical and Physical Chemistry, Leoben, Austria		Visiting Professor (Erasmus Fellow)
Feb. 2023	Zoological Institute and Museum (Hamburg, Germany)		Visiting Professor
June 2023	National University of Singapore		Visiting Professor
Aug. 2023	MNHN, Paris France		Visiting Professor
Sept. 2023	Berlin Museum of Natural History (Germany)		Visiting Professor
1973-1981	Tel Aviv University	Zoology	<i>Teaching Assistant Invertebrate Zoology and Population Ecology</i>
Oct. 1987-Oct. 1990	Tel Aviv University	Zoology	<i>Lecturer</i>
Oct. 1990-present	Tel Aviv University	Zoology	<i>Curator of Marine Invertebrates</i>

Nov. 1990-Dec. 1996	Tel Aviv University	Zoology	<i>Senior Lecturer</i>
June 1988-Feb. 1995	Zoological Museum, Tel Aviv University	Zoology	<i>Director</i>
Jan.1997-Dec. 2002	Tel Aviv University	Zoology	<i>Associate Professor</i>
Jan. 2003 - present	Tel Aviv University	Zoology	<i>Full Professor</i>
Oct. 2016-	Tel Aviv University	Zoology	<i>Professor Emeritus</i>
May 2003-Feb. 2006	Tel Aviv University	Zoology	<i>Head of Department</i>
June 2006 - Sept. 2008	Tel Aviv University	Zoology	<i>Head of School of Environmental Studies</i>
Jan. 2009-Jan. 2010	Tel Aviv University	Porter School	<i>Representative of TAU Senate</i>
Oct. 2009-Oct. 2011	Tel Aviv University	TAU Board of Governors	<i>Representative of TAU Senate</i>
Feb. 2010- 2018	Tel Aviv University	Zoology	<i>Incumbent- The Israel Cohen Chair in Environmental Zoology</i>

E. ADMINISTRATION POSITIONS AND REFEREE

Administration positions:

1991-1994	Member of Teaching and Graduate Students Committee in the Zoology Department
1994-1995	Elected representative of the Senior Lecturers at The Senate of Tel Aviv University
1993-1995	Member of the Directory Board of the Israel Society for Ecology and Environmental Quality Sciences
1993-2000	Member of the Editorial Board of the Israel Journal of Zoology
1997-1998	Member of the Ecology Professional Committee of the Israel Science Foundation founded by The Israel Academy of Sciences & Humanities
2000-2003	Member of the Teaching and Ph.D. students Committee in the Zoology Department
2002-2003	Head, Ph.D. students Committee, Department of Zoology
2002-2003	Head, “space and housing” Committee, Department of Zoology
1999-2003	Member of the Committee for terms in ecology and quality of the environment, The Academy for Hebrew Language

2002-2005	Member of the interdepartmental equipment committee, Faculty of Life Sciences, Tel Aviv University (ZABAM)
2001-2005	Member of the University Library Committee, Tel Aviv University
1995-2006	Member of the Museum Committee in the Zoology Department
1999-2009	Member of the Board of Directors of the Interuniversity Institute of Marine Sciences in Eilat
2002-2006	Member of the Department Committee in the Zoology Department
2012-2020	Head, International MA Program of Porter School of Environmental Studies
2013	Chair and organizer of the 8 th International Conference of Coelenterate Biology (ICCB8) Eilat, Israel
2015-2016	Representative of Faculty of Life Science at the University PhD Committee
2016	Chair of the BYEFOULING and SEAFRONT Joint Workshop: Bridging the gap between academia and industry; Toulon, France
2023	Organizer of Octocoral taxonomy and phylogeny training workshop Under the auspices of the NSF-BSF funded project- The Indo-Pacific zooxanthellate octocorals: An integrative approach to species delimitation, phylogenetics and biogeography and MAF WORLD • COST ACTION CA20102- Marine Animal Forest of the World

Referee to:

Funding Agencies:

- a. Israel Science Foundation (ISF)
- b. BSF- United States-Israeli Binational Science Foundation
- c. GIF- German-Israel Foundation for Scientific Research & Development
- d. National Geographic Foundation
- e. NSF- National Science Foundation (USA)
- f. Academia Sinica, Taiwan
- g. MOST- Ministry of Science and Technology, Israel

International scientific journals:

Biological Bulletin, Bulletin of Marine Science, Canadian Journal of Zoology, Coral Reefs, Galaxea, Heredity, Hydrobiologia, Invertebrate Biology, Journal Experimental Marine Biology and Ecology, Journal of Coastal Research, Journal Marine Biological Association UK, Scientific Report, PeerJ, Limnology and Oceanography, Marine Biodiversity, Marine Biodiversity Records, Marine Biology, Marine Biology Research, Marine Ecology Progress Series, Marine Environmental Research, Pacific Science, PLoS ONE, Polar Biology, Proceeding California Academy, Raffels Bulletin of Zoology, Science, ZooKeys, Zoological Studies, Zootaxa.

F. ACADEMIC AND PROFESSIONAL AWARDS

- 1977 Fellowship under the **Dutch Ministry of Education** for studying soft coral taxonomy in Leiden Museum, The Netherlands
- 1981 Research scholarship awarded by the **Israel Academy of Sciences and Humanities**
- 1982 Fellowship under the **Dutch Ministry of Education** for studying soft coral taxonomy in Leiden Museum, The Netherlands
- 1982 **Minerva Award** under the Komitee fur die wissenschaftliche Zusammenarbeit zuichen Deutschen and Israelischen Forschungsinstituten for studying soft coral taxonomy in German Institutions
- 1982 **British Council and Leo Baeck Bnai Brith Awards** for studying soft coral taxonomy in the British Museum of Natural History
- 1982 **Dr. Chaim Weizmann Postdoctoral Fellowship**. Research subject: Ultrastructure and pathology of octocorals. Florida International University, Miami, Florida
- 1984 Fellowship under the **French-Israeli Scientific Exchange Program** and Maitre Assistant Associe Fellowship awarded by Museum d'Histoire Naturelle (Paris). Research subject: Taxonomy of Indo-Pacific alcyoniid soft corals
- 1986 **CSIR Israel-South Africa Collaborative Research** project: Faunistic composition and community structure of soft and hard corals at Sodwana, Northern Natal
- 1986-1988 **The Institution for Research of Sinai Areas**. Research project: Distribution and life history strategy of the soft coral *Litophyton arboreum* along the reefs of Sinai Peninsula
- 1987 Fellowship under the **Scientific Exchange Program between Israel and Denmark** for studying soft coral taxonomy in the Zoologisk Museum, University of Copenhagen
- 1988-1989 **Basic Research Fund of Tel Aviv University**. Research project: Acquisition of algal symbionts by soft corals
- 1988-1990 **"Keren Hatzvi"**. The Society for the Protection of Nature. Research project: Coral reefs, Eilat
- 1989 **British Council Award** for studying soft coral taxonomy in the British Museum of Natural History
- 1989-1991 **"Keren l'Ecologia"**, The Ecological Foundation. Research project: Man-made reefs enhancing recovery of stressed natural reefs at Eilat
- 1989-1992 **Basic Research Foundation** administered by the Israel Academy of Sciences and Humanities. Research project: Reproductive and developmental patterns of the Red Sea octocoral alcyonaceans

- 1991 Fellowship from the **Oceanographic Research Institute, Durban, South Africa**. Research project: Taxonomy of Natal reefs' soft corals
- 1991 **Uruma Fund Award** for Research in University of the Ryukyus, Okinawa, Japan. Research project: Ecology and taxonomy of Okinawan alcyonaceans
- 1992 Donation for construction of artificial reef at Eilat, Red Sea (Courtesy of "**Dubek**" Company)
- 1992 Fellowship under the **CSIR Israel-South Africa Scientific Exchange Program** for studying soft corals at Sodwana, Northern Natal
- 1993 Research grant awarded by **Pharma Mar, Spain**. Research project: Marine natural products from reef organisms of Natal reefs, South Africa
- 1993 Research grant awarded by **Nature Reserves Authority**. Research project: Invertebrate biota of the coastal area of Dor and Habonim
- 1994 Research grant awarded by **Pharma Mar, Spain**. Research project: Marine natural products from reef organisms of Natal reefs, South Africa
- 1994-1995 **Basic Research Fund of Tel Aviv University**. Research project: Induction of settlement and metamorphosis in Red Sea soft corals by marine bacteria
- 1995 Research grant awarded by **Pharma Mar, Spain**. Research project: Marine natural products from reef organisms of Natal reefs, South Africa
- 1995 Research grant awarded by **Nature Reserves Authority**. Research project: Invertebrate biota of the coastal area of Dor and Habonim.
- 1995-1988 **The Israel Science Foundation** administered by The Israel Academy of Sciences and Humanities. Research project: Soft corals of the Red Sea
- 1997-1998 **Basic Research Fund of Tel Aviv University**. Research project: Temporal changes and reproduction features in a soft coral
- 1997-1998 **Ministry for Quality of the Environment**. Research project: Biological impacts of the use of TBT along the coastal water of Israel
- 1999 **British Council Award** for visiting several marine laboratories in the UK
- 1999 **Academy Study on Israel and the Middle (Britain) Award** for visiting several marine laboratories in the UK
- 1998-1999 **Ministry for Quality of the Environment**. Research project: Toxic effects of TBT: morphological and histopathogenic survey in mollusks from Lake Tiberias
- 1999-2000 **Basic Research Fund of Tel Aviv University**. Research project: Dynamics and kinetics of algal infection by a coral host

- 1999-2002 **United States-Israel Binational Science Foundation (BSF).** Research project: Macro- and microscale integrated events during the onset of coral-algal symbiosis
- 2000-2001 **National Geographic Society,** Committee for Research and Exploration. Research project: Artificial reefs: are they effective for colonization by coral-reef communities?
- 2000-2001 **Belfer Center for Energy Research.** Research Project: Ship-hull coatings: toxicological response and non-polluting, energy saving fouling control
- 2000 **Japan Society for the Promotion of Science,** Research Fellowship: Distribution of soft corals in Ryukyu Islands and spatial variation in their secondary metabolites
- 2001 **Tobias Landau Foundation.** Research project: Infection of a coral host by symbiotic algae
- 2002-2003 **The Porter School of Environmental Studies Research Fund.** Research Project: Development of benthic assemblages on floating artificial structures: Environmental effects
- 2002-2003 **Basic Research Fund of Tel Aviv University.** Research project: Diversity of symbiotic algae in the Red Sea soft corals: biological implications
- 2003 **Pharma Mar, Spain.** Research project: Collection of marine invertebrates from the coral reefs of Kenya
- 2004-2007 **USAID-CDR,** Research Project: Scientifically based framework for conserving and monitoring the Eritrean coral-reefs
- 2004 **Pharma Mar, Spain.** Research project: Collection of marine invertebrates from the coral reefs of Kenya
- 2004-2005 **The Porter School of Environmental Studies, Italian Collaborative Research.** Research Project: Artificial Marine Structures (AMS): Multifunctional Tool for Research and Environmental Management in the Mediterranean and Red Sea (MED-RED)
- 2004 **Pharma Mar, Spain.** Research project: Collection of marine invertebrates from the coral reefs of Pemba, Zanzibar
- 2004-2005 **Hawaii Coral Reef Initiative.** Title of Project: Reproduction and Developmental Characteristics of an alien soft coral (*Carijoa riisei*) in Hawaii
- 2005 **Tobias Landau Foundation.** Research project: Colonization of artificial reefs in Eilat (Red Sea)
- 2005 **Faculty of Life Sciences,** Tel Aviv University: award for outstanding teaching

- 2005-2006 **The Porter School of Environmental Studies, Italian Collaborative Research.** Research Project: Artificial Marine Structures (AMS): Multifunctional Tool for Research and Environmental Management in the Mediterranean and Red Sea (MED-RED) (jointly with collaborators)
- 2007 **Research Fund of Tel Aviv University.** Research project: Microstructure of octocoral sclerites
- 2007-2008 **The Porter School of Environmental Studies, Italian Collaborative Research.** Research Project: Artificial Marine Structures (AMS): Multifunctional Tool for Research and Environmental Management in the Mediterranean and Red Sea (MED-RED)
- 2008-2009 **Yeshaya Horowitz Association.** Research Project: A novel source of scaffolding material for tissue engineering
- 2009-2012 **7 Framework Program EU Project** (Technology Enhanced Learning): DynaLearn: Engaging and informed tools for learning conceptual system knowledge (jointly with collaborators)
- 2009-2013 **United States-Israel Binational Science Foundation (BSF).** Research project: Phylogeny of the octocorals (phylum Cnidaria), family Xeniidae: Application of molecular and morphology based approaches (jointly with C. McFadden, Harvey Mudd College, Claremont, CA and R. Toonen, University of Hawaii)
- 2009-2013 **Israel national Science Foundation.** Hydrodynamics of contact of larvae with substrate (jointly with G. Zilman, Faculty of Engineering, TAU)
- 2010 **SYNTHESYS** fellowship: the European Union-funded Integrated Activities grant to study octocorals at Berlin Museum of Natural History
- 2011 Recipient of the **Artiglio Award, Artiglio Europe Foundation.**
- 2012 **SYNTHESYS** fellowship: the European Union-funded Integrated Activities grant to study octocorals at Vienna Museum of Natural History
- 2012-2015 **Israeli Ministry of Agriculture:** Effects of sport fishing
- 2013 **SYNTHESYS** fellowship: the European Union-funded Integrated Activities grant to study octocorals at British Museum of Natural History
- 2013-2017 **7 Framework Program EU Project.** BYEFOULING: Low-toxic cost-efficient environment-friendly antifouling materials (jointly with collaborators)
- 2013 **Temminck Fellowship** to study octocorals at National Center for Biodiversity, Naturalis, Leiden, Netherlands

- 2014 **Temminck Fellowship** to study octocorals at National Center for Biodiversity, Naturalis, Leiden, Netherlands
- 2014 **Smithsonian Institution (National Museum of Natural History) visiting fellowship** to study octocorals, Washington DC
- 2014-2017 **Israeli Ministry of Agriculture:** Quantifying the ecological and economic impact of by-catch from coastal fishing and means to reduce it by increasing net selectivity (jointly with Dr. Y. Belmaker, TAU)
- 2015-2019 **Horizon 2020 EU Project.** TASC MAR: Tools and strategies to access to original bioactive compounds from cultivation of marine invertebrates and associated symbionts (jointly with collaborators)
- 2019-2025 **United States National Science Foundation-United States-Israel Binational Science Foundation (NSF-BSF):** The Indo-Pacific zooxanthellate octocorals: an integrated approach to species delimitation, phylogenetics and biogeography (jointly with C. McFadden, Harvey Mudd College, Claremont, CA)
- 2020-2023 **Ministry of Environmental Protection:** Integrative study on Apolonia beach “yellow spill”: biological, chemical and ecotoxicological impacts (jointly with collaborators)
- 2021-2025 **Cost ACTION** Marine Animal Forest of the world (MAF-WORLD) (jointly with collaborators).

G. MEMBERSHIP IN PROFESSIONAL SOCIETIES

1973 - present	Israel Zoological Society
1986 - present	International Society for Reef Studies
1988 - present	International Society of Invertebrate Reproduction
1988 - present	Israel Society for Ecology and Environmental Sciences

H. SUPERVISION OF GRADUATE AND POST GRADUATE STUDENTS

Post doc.

2014-2016 Eldad Gunter-Hoch
Efficacy and toxicity of novel antifouling compounds

2021-2023 Íris Sampaio
Octocoral taxonomy, phylogenetics and biogeography

Ph.D. students

1991-1996 Gabriele Henning
Minerva Fellow, Department of Zoology and Parasitology, Ruhr-Universität Bochum, Germany
Induction of settlement and metamorphosis in coral reef alcyonaceans (jointly with Prof. D. Hofmann, Bochum)

1993-1999 Uri Oren
Regeneration and colony integration in scleractinian corals (jointly with Prof. Y. Loya, TAU)

1994-1999 Revital Ben-David-Zaslow
Relationship between environmental parameters and reproductive features of the soft coral *Heteroxenia fuscescens*

1994-2002 Gil Rilov
The whelk *Stramonita haemastoma* in the eastern Mediterranean rocky littoral: biotic and abiotic perspectives (jointly with Prof. A. Gasith, TAU)

1997-2003 Dafna Zeevi
UV-Resistance mechanisms of soft corals and the involvement of their symbiotic zooxanthellae

1999-2005 Orit Barneah
Microscale events during the onset of coral-algal symbiosis (jointly with Prof. V. Weis, Oregon State University, USA)

2001-2007 Shimrit Perkol-Finkel
Spatial and temporal interactions between artificial and natural reefs

2007-2012 Dror Zorel
Lessepsian migrant bivalves as vectors for dispersal of marine bacteria (jointly with Prof. U. Gophna, TAU)

2006-2013 Chen Yoffe
Selectivity processes, physiology and molecular mechanisms of zooxanthellae during initiation and maintenance of symbiosis

2007-2013 Ido Sella
Biological, chemical and mechanical aspects of collagen fibers isolated from a soft coral

- 2010-2015 Anna Halasz
Phylogeny of octocorals, family Xeniidae (jointly with Prof. C. McFadden, Harvey Mudd College, CA and Prof. R. Toonen, Univ. of Hawaii)
- 201-2019 Yahala Rina Roterman
Ecology and Microbiology of the Lessepsian migrant oyster *Spondylus spinosus* (jointly with Prof. U Gophna, TAU)
- 2018-2023 Ronen Liberman
The host-symbiont complex of mesophotic octocorals (jointly with Prof. D. Huchon, TAU)
- 2015- Erez Shoham
Mesophotic octocorals of Eilat, northern Red Sea
- 2020- Elinor Nadir: Pulsating soft corals: the underlying mechanism (jointly with Dr. T. Lotan, Haifa University)

M.Sc. students

1987-1990	Dan Weil Life history features of the alcyonacean <i>Litophyton arboreum</i> in the Gulf of Eilat: Sexual and asexual reproduction
1987-1990	Michael Klainman Comparative life history features of the <i>Sinularia</i> species (Octocorallia: Alcyonacea) at Eilat
1988-1992	Miamon Dahan Clonal propagation and sexual reproduction of the alcyonacean <i>Dendronephthya hemprichi</i>
1988-1992	Ruth Goren Benthic communities on artificial substrata at Eilat (Red Sea)
1989-1992	Yael Barki Population ecology and genetic characteristics of the soft coral <i>Dendronephthya</i> in the northern Gulf of Eilat, Red Sea
1990-1993	Uri Oren Recruitment and survival of corals on artificial reefs
1991-1993	Gil Rilov Fish community on vertical reefs in the northern Gulf of Eilat: Structure of an existing community and initial recruitment on experimental installations

1992-1994	Revital Ben-David Longevity and competency of planulae of Octocorallia
1992-1994	Noga Shiloach Dynamics of initial settlement of fishes on artificial reefs at the Gulf of Eilat (Red Sea)
1993-1996	Dafna Zeevi The gorgonian <i>Acabaria biserialis</i> : a successful colonizer of artificial substrata
1994-1997	Sharon Ketzinel Chemical ecology of some South African soft corals (jointly with Prof. Y. Kashman, TAU)
1994-1997	Sigal Lozki Life history of zooxanthellate and azooxanthellate soft corals
1995-1998	Dovi Kelman The chemical ecology of the soft coral <i>Parerythropodium f. fulvum</i> (jointly with Prof. Y. Kashman)
1996-1999	Orit Barneah Soft coral transplantation as a means for reef rehabilitation in Eilat: ecological aspects and fine structural cascades
1997-2002	Tal Reichert Oxygen consumption rate of juvenile stages of the soft coral <i>Heteroxenia fuscescens</i>
1998-2001	Tali Yakobovich Kinetics of zooxanthellae acquisition by a sexual progeny of a soft coral
1999-2001	Shimrit Perkol Artificial and natural reefs in Eilat: Comparative aspects and interactions
2000-2003	Omer Polack Biology and Ecology of the zoanthid <i>Palythoa tuberculosa</i> in Northern Gulf of Aqaba (Eilat) (jointly with Prof. Y. Loya, TAU)
2000-2003	Sharon Levi Chemical ecology of some East African soft corals (jointly with Prof. Y. Kashman, TAU)
2000-2004	Ettie Sapir Testing the toxicity of TBTCI to Anthozoa and the antifoulant efficiency of Environmental-friendly silicone coatings (jointly with Prof. A. Gasith, TAU)
2001-2006	Edit Adler Infection of early developmental stages of soft corals with homologous and heterologous symbiotic algae

2001-2005	Anat Maoz Algal acquisition and specificity in soft corals (families Nephtheidae and Xeniidae)
2002-2004	Mati Halperin Recruitment of fish to experimental floating and fixed artificial reefs (jointly with Dr. M. Goren, TAU)
2003-2006	Inbal Ginsburg Ecology of the Red Sea gorgonian <i>Clathraria rubrinodis</i>
2003- 2006	Jonathan Sharon Benthic communities associated with invasive bivalves in the Israeli Mediterranean coast (jointly with Prof. Y. Loya, TAU)
2004-2007	Ido Sella Development of a propagation protocol for cuttings of the soft coral <i>Sarcophyton glaucum</i>
2004-2007	Yael Zaldam Succession of benthic communities on artificial marine structures (AMS) in the Red Sea: A tool to evaluate AMS performance
2004-2007	Dror Zurel Distribution and specificity of algal symbionts in vertically transmitting soft corals (family Nephtheidea) in the Red Sea
2005- 2008	Michal Grosovich Habitat partitioning of three azooxanthellate soft corals in Eilat (Red Sea)
2006- 2009	Michal Weis Bivalves as colonizers of artificial marine structures at Eilat (Red Sea)
2007- 2010	Dafna Aharonovich Soft corals of the family Xeniidae (Octocorallia) in the northern Gulf of Eilat: species composition and taxonomic importance of sclerite-microstructure
2008- 2011	Yasmin Gabay Effects of seawater acidification on xeniid soft corals (jointly with Prof. M. Fine, BIU)
2009-2011	Ateret Shabtay Population dynamics of the invasive oyster <i>Spondylus spinosus</i> in the Israeli Mediterranean coast (jointly with Dr. G. Rilov, IOLR)
2009-2012	Natalie Shalev Development of benthic communities on a planned artificial reef at Eilat (jointly with Dr. G. Rilov, IOLR)
2010-2014	Yael Mandelberg Collagen producing octocorals of the genus <i>Sarcophyton</i>
2011-2014	Yehala Rina Roterman Bacteria in invasive and indigenous bivalves (jointly with Prof. U. Gophna, TAU)

2012-2015	Erez Shoham Octocoral community structure at Eilat (Northern Red Sea): mesophotic vs. shallow reefs
2012-2015	Ximena Velasquez Pedrosa Flat worms (Platyhelminthes) of the Israeli Mediterranean and Eilat shallow habitats (jointly with Diana M. Bolaños, Univ. of New Hampshire)
2012-2015	Ehud Gilad Bivalve assemblages as environmental indicator (jointly with Dr. Y. Edelman-Furstenberg, Israel Geological Survey)
2012-2015	Noga Perry Bacterial populations of soft and stony corals in different life stages (jointly with Prof. U. Gophna)
2012-2016	Ofir Gilad Biomechanical properties of an octocoral collagen fibers (jointly with Prof. R. Haj Ali, TAU)
2013-2016	Chen Piller Environmentally friendly antifouling paints: efficacy and toxicity
2013-2017	Camelia Gochev Settlement of octocoral planulae under flow: field and laboratory studies (jointly with Prof. G. Zilman, TAU)
2014-2017	Rachel Mailick Evaluating antimacrofouling compounds: The search for environmentally friendly antifouling treatments
2015- 2017	Ronen Liberman Reproductive and physiological traits of two mesophotic octocoral species in comparison to their shallow conspecifics
2015-2018	Iris Kremer Toxicity of novel anti-macrofouling compounds: are they environmentally friendly?
2016-2020	Reut Wenger Testing novel antifouling paints: field and laboratory approaches
2017-2023	Shay Tamir A comparison of the reproductive and morphological traits of mesophotic <i>Sclerophytum</i> octocoral species with those of their shallow-water congeners
2020-	Einav Lazar The soft corals genera <i>Cladiella</i> and <i>Klyxum</i> : taxonomy and their symbiotic unicellular algae (jointly with Prof. C.S. McFadden, Harvey Mudd College, Claremont CA and Prof. D. Houchon, TAU)
2020-	Yamit Romano The 'yellow spring' in Apolonia beach: ecological and toxicological implications (jointly with Prof. Y. Belmaker, TAU)

2021-	Stav Vaknin Ontogenetic aspects of soft coral pulsation
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I. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

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- 1976 Annual meeting of The Israel Zoological Society. Lecture: Stony corals, soft corals and algae: the main competitors for space in the northern Gulf of Eilat (Red Sea)
- 1980 The Hebrew University of Jerusalem. Annual conference of the H. Steinitz Marine Biology Laboratory. Lecture: Active movement of the Red Sea soft coral *Xenia macrospiculata* Gohar, 1940
- 1984 Annual meeting of The Israel Zoological Society. Lecture: Reproductive patterns in three species of Red Sea soft corals
- 1985 5th International Coral Reef Congress, Tahiti, French Polynesia. Lecture: Faunistic composition and patterns in the distribution of soft corals (Octocorallia: Alcyonacea) along the coral reefs of Sinai Peninsula
- 1987 First Eilat Symposium on Marine Symbiosis. Lecture: Acquisition of symbiotic zooxanthellae in course of ontogenesis of three xeniid soft coral species
- 1987 22nd European Marine Biology Symposium, Barcelona, Spain. Poster: Reproduction and external brooding in the octocoral *Clavularia hamra* Gohar
- 1987 First UNESCO/COMAR Regional Taxonomy Research Workshop and Advanced Training Course, Phuket, Thailand (organizer and speaker)
- 1988 9th Conference of the Israel Society for Ecology and Environmental Quality Sciences. Lecture: Settlement of soft corals on artificial substrata at Eilat
- 1989 5th International Conference on Coelenterate Biology, Southampton, U.K. Lecture: Reproduction and developmental pathways of soft-coral xeniids (Octocorallia: Alcyonacea)
- 1989 5th International Congress of Invertebrate Reproduction, Nagoya, Japan. Lecture: Radiation of broadcasting and brooding patterns in coral reef octocoral alcyonaceans
- 1989 Annual Meeting of the Israel Zoological Society. Lecture: Reproductive patterns and planulae brooding in Xeniidae (Octocorallia)
- 1990 Joint US-Israel Israel Workshop on Marine Symbiosis; From Molecular Biology to Ecosystem Function. Lecture: Acquisition of algal symbionts by alcyonaceans offspring

- 1990 Annual Meeting of the Israel Society for Electron Microscopy. Lecture: Transmission of symbionts through the sexual cycle of the octocoral *Litophyton arboreum*.
- 1990 Annual Meeting of the Israel Zoological Society. Lecture: Sexual reproduction among reef octocoral alcyonaceans (Cnidaria)
- 1991 5th International Conference on Artificial Habitats for Fisheries, Long Beach, California, U.S.A. Lecture: Recruitment of benthic communities on artificial habitats at Eilat (Red Sea)
- 1991 First International Symbiosis Congress, Jerusalem. Lecture: Ultrastructural evidence for intercellular symbionts translocation in course of oogenesis and planulae development of *Litophyton arboreum* (Octocorallia)
- 1992 7th International Coral Reef Symposium, Agana, Guam. Lecture: Onset of zooxanthellae acquisition in course of ontogenesis of broadcasting and brooding soft corals
- 1992 International Symposium of the University of the Ryukyus on Biodiversity and Adaptive Strategies of Coral Reef Organisms, Okinawa, Japan. Lecture: Reproductive strategies of soft corals, family Nephtheidae
- 1992 Annual Meeting of the Israel Zoological Society. Lecture: Zooxanthellae acquisition in course of ontogenesis of broadcasting and brooding soft corals (Octocorallia)
- 1993 Annual Meeting of the Israel Society for Ecology and Environmental Quality Sciences. Lecture: The use of artificial reef structure to rehabilitate denuded and stressed coral reefs at Eilat (Red Sea)
- 1993 7th Pacific Science Inter Congress, Okinawa, Japan. Lecture: Species composition of soft corals (Octocorallia, Alcyonacea) at the coral reefs of Sesoko Island, Ryukyu Archipelago, Japan
- 1994 Marine Invertebrate Workshop, National Taiwan University, Taipei, Taiwan. Invited lecture: Ecology of octocorals
- 1994 Marine Biodiversity: Causes and Consequences, York, U.K. Lecture: Soft corals and stony corals of Sodwana Bay, South Africa: communities at the boundaries of reefs distribution
- 1995 6th International Conference on Coelenterate Biology, The Netherlands. Lecture: Allocation of reproductive output in the soft coral *Dendronephthya hemprichi*: sexual and clonal propagation
- 1995 Annual Meeting of the American Society of Zoology, Washington, D.C., U.S.A. Lecture: Outstanding reproductive features of an azooxanthellate Red Sea octocoral
- 1996 76th Annual Meeting of the Western Society of Naturalists, Port Townsend, Washington, U.S.A. Lecture: Temporal patterns of reproduction in some *Sinularia* soft corals

- 1996 8th International Coral Reef Symposium, Panama City, Panama. Title of lecture: Developmental episodes in reef soft corals: Ecological and cellular determinants
- 1997 8th Pacific Science Inter Congress, Suva, Fiji. Title of lecture: Diversity of the alcyonaceans (Octocorallia) of Guam
- 1998 8th International Congress on Invertebrate Reproduction and Development, Amsterdam, The Netherlands. Title of lecture: Embryogenesis, planulae longevity and competence in the Red Sea octocoral *Dendronephthya hemprichi*
- 1998 European Meeting of the International Society for Reef Studies, Perpignan, France. Title of lecture: Latitudinal attenuation of Red Sea soft corals (Octocorallia: Alcyonacea)
- 1998 Pacific Science Inter-Congress, Taipei, Taiwan. Title of lecture: Soft corals (Octocorallia) from Taiwan
- 2000 9th International Coral Reef Symposium, Bali, Indonesia. Title of lecture: Species composition of soft corals (Octocorallia) on the coral reefs of the Ryukyu Archipelago, Japan
- 2002 14th Marine Aquarium Conference of North America. Title of lecture: Early developmental-stages of soft corals: crucial adaptations for survival
- 2003 7th International Conference on Coelenterate Biology, Laurence, Kansas, USA. Title of lecture: The soft coral *Heteroxenia fuscescens*: life history and developmental processes
- 2003 4th International Symbiosis Congress, Halifax, Canada. Title of lecture: Initiation of zooxanthellae-host symbioses: Soft corals as a model system
- 2003 Science Programme: Advanced Study Institute: Strategic Management of Marine Ecosystems, Sophia Antipolis, France. Title of lecture: Artificial reefs in the Red Sea
- 2003 10th International Coral Reef Symposium, Okinawa, Japan. Title of lecture: Diversity of soft corals (Octocorallia: Alcyonacea) from Southern Taiwan
- 2004 39th European Marine Biology Symposium, Genoa, Italy. Title of lecture: Shift from fouling organisms to tropical-reef communities on a planned artificial reef: how long does it take?
- 2007 21st Pacific Science Congress, Okinawa Japan. Title of lecture: Diversity and distribution of soft corals of the family xeniidae (Octocorallia, Alcyonacea) from reefs of the East and South China Sea
- 2008 International Coral Reef Symposium, Fort Lauderdale Okinawa, USA. Title of lecture: Diversity of soft corals (Octocorallia) in Kenya and the adjacent Pemba (Tanzania) with reference to other south equatorial East African reefs

- 2010 2nd Asia Pacific Coral Reef Symposium, Phuket, Thailand. Title of lecture: Octocorals of the Penghu reefs (Taiwan): unique species composition
- 2010 European Meeting of the International Society for Reef Studies, The Netherlands. Title of lecture: Soft corals of the family Xeniidae: What does the sclerite microstructure reveal?
- 2012 Biodiversity Research Center, Academia Sinica, Taiwan. Invited lecture: New challenges in studying octocoral taxonomy
- 2013 British Museum of Natural History. Invited lecture: Historical collections of soft corals and their current significance.
- 2013 Octocoral Workshop, Phuket Marine Biology Center, Thailand. Title of lecture: Taxonomy of Indo-Pacific octocorals
- 2013 8th International Conference on Coelenterate Biology, Eilat, Israel (Chair and organizer)
Title of lectures:
- a. Collagen fibers of soft corals: Occurrence, arrangement and potential biomedical use
 - b. Octocorals of the family Xeniidae: Taxonomic challenges
- 2014 Smithsonian Institution, National Museum of Natural History. Invited lecture: Xeniidae octocorals of the Red Sea and beyond
- 2015 The Society for Coastal Ecosystem Studies–Asia Pacific Biodiversity Symposium 2015, Bangkok, Thailand. Invited lecture: Xeniidae soft corals: biological and taxonomic challenges for reef conservation
- 2017
- 2016 18th International Congress on Marine Corrosion and Fouling. Title of lecture: Colorful Side of Fouling: Environmental Benefit for Coral Reefs and Beyond
- 2017 52 European Marine Biology Symposium, Piran, Slovenia. Title of lecture: Octocorals: key players in mesophotic reefs (Eilat, northern Red Sea) (invited lecture)
- 2017 European Coral Reef Symposium, Oxford, UK. Title of lecture: Search for mesophotic octocorals (Cnidaria, Anthozoa) and their Phylogeny
- 2018 4th Asian Pacific Coral Reef Symposium, Cebu, Philippines. Title of lecture: Evaluating the genus *Cespitularia* and descriptions of new genera of the family Xeniidae (Octocorallia, Alcyonacea)
- 2018 MARINA Conference, Tartu, Estonia. Title of lecture: Mesophotic

- octocorals: understudied bioresource (invited lecture)
- 2018 2th International Conference on Environmental Management of Enclosed Coastal Seas (EMECS12, Pattaya, Thailand: Tile of lecture: Mesophotic biodiversity in Eilat (Gulf of Aqaba): understudied bio-resource (invited lecture)
- 2018 30th International Symposium on the Chemistry of Natural Products and 10th International Congress on Biodiversity (ISCNP30 & ICOB10), Athens, Greece: Mesophotic biodiversity: Understudied bio-resource (invited lecture)
- 2019 World Expert Lecture Series (WELS) program of the Office of International Linkages (OIL) of University of the Philippines (invited lecture)
- 2019 XVI International Symposium on Marine Natural Products | XI European Conference on Marine Natural Products, Peniche; Portugal: Mesophotic marine habitats: inspiring understudied Biodiversity (invited lecture)
- 2020 Gordon Research Conference on Marine Natural Products, Ventura California: Mesophotic marine habitats: inspiring understudied Bioresources (invited lecture)
- 2022 15th International Coral Reef Symposium, Bremen, Germany
Session Chair: Shift in scleractinian dominated reefs - are we facing new winners - octocorals, sponges and macroalgae?
- 2023 5th Asian-Pacific Coral Reef Symposium, Singapore: Rejuvenate the oldies: in pursuit of soft coral type material (Octocorallia, Malacalcyonacea)

J. LIST OF PUBLICATIONS

REFEREED ARTICLES:

1. **Y. Benayahu**, Y. Loya
Space partitioning by stony corals, soft corals and benthic algae on the coral reefs of the northern Gulf of Eilat (Red Sea)
DOI: 10.1007/BF02207848,
Helgol. wiss. Meeresunt., Vol. 30, 1977 (pp. 362-382)
2. Y. Kashman, M. Bodner, Y. Loya, **Y. Benayahu**
Cembrolids from marine origin (Red Sea), survey isolation of new Sinulariolid derivatives

DOI: 10.1002/ijch.197700002

Isr. J. Chem., Vol. 16, 1977 (pp. 1-3)

3. J. Verseveldt, **Y. Benayahu**
Description of one old and five new species of Alcyonacea (Coelenterata: Octocorallia) from the Red Sea
Zool. Meded. Leiden, Vol. 53, 1978 (pp. 57-74)
4. Y. Kashman, Y. Loya, M. Bodner, A. Groweiss, **Y. Benayahu**, N. Naveh
Gas liquid chromatograms of sesquiterpenes as finger prints for coral identification
DOI: 10.1007/BF00393777
Mar. Biol., Vol. 55, 1980 (pp. 255-259)
5. S. Carmely, Y. Kashman, Y. Loya, **Y. Benayahu**
New prostaglandin (PGF) derivatives from the soft coral *Lobophytum depressum*
DOI:10.1016/S0040-4039(00)71531-0
Tet. Lett., Vol. 21, 1980 (pp. 875-878)
6. **Y. Benayahu**, Y. Loya
Competition for space among coral reef sessile organisms at Eilat, Red Sea
DOI: 10.1002/jctb.280310169
Bull. Mar. Sci., Vol. 31, 1981 (pp. 514-522)
7. **Y. Benayahu**
A new species of *Metalcyonium* (Octocorallia: Alcyonacea) from the Red Sea
Zool. Meded. Leiden, Vol. 56(16), 1982 (pp. 197-201)
8. **Y. Benayahu**, Y. Loya
Surface brooding in the Red Sea soft coral *Parerythropodium fulvum fulvum* (Forskal, 1775)
DOI: 10.2307/1541201
Biol. Bull., Vol. 165, 1983 (pp. 353-369)
9. J. Verseveldt, Y. Benayahu
On two old and fourteen new species of Alcyonacea (Coelenterata, Octocorallia) from the Red Sea
Zool. Verhand. Leiden, Vol. 208, 1983 (pp. 1-33)
10. **Y. Benayahu**, Y. Loya
Life history studies on the Red Sea soft coral *Xenia macrospiculata* Gohar, 1940. I. Annual dynamics of gonadal development
DOI: 10.2307/1541428
Biol. Bull., Vol. 166, 1984 (pp. 32-43)
11. **Y. Benayahu**, Y. Loya
Life history studies on the Red Sea soft coral *Xenia macrospiculata* Gohar, 1940. II. Planulae shedding and post larval development
DOI: 10.2307/1541429
Biol. Bull., Vol. 166, 1984 (pp. 44-53)
12. **Y. Benayahu**, Y. Loya

Substratum preferences and planulae settling of two Red Sea alcyonaceans: *Xenia macrospiculata* Gohar and *Parerythropodium fulvum fulvum* (Forskål)
DOI: 10.1016/S0022-0981(84)80004-0
J. Exp. Mar. Biol. Ecol., Vol. 83, 1984 (pp. 249-266)

13. **Y. Benayahu**, Y. Loya
Settlement and recruitment of a soft coral: Why is *Xenia macrospiculata* a successful colonizer?
DOI: 10.1088/0031-9112/36/4/040
Bull. Mar. Sci., Vol. 36, 1985 (pp. 177-188)
14. **Y. Benayahu**, Y. Loya
Sexual reproduction of a soft coral: Synchronous and brief annual spawning of *Sarcophyton glaucum* (Quoy & Gaimard, 1833)
DOI: 10.2307/1541378
Biol. Bull., Vol. 170, 1986 (pp. 32-42)
15. T. Berner, Y. Achituv, Z. Dubinsky, **Y. Benayahu**
Pattern of distribution and adaptation to different irradiance levels of zooxanthellae in the soft coral *Litophyton arboreum* (Octocorallia: Alcyonacea)
DOI: 10.2307/3193031
Symbiosis, Vol. 3, 1987 (pp. 23-40)
16. W.M. Goldberg, **Y. Benayahu**
Spicule formation in a gorgonian coral *Pseudoplexaura flagellosa* 1. Demonstration of intracellular and extracellular growth and the effect of ruthenium red during decalcification
DOI: 10.1111/j.1468-246X.1987.tb00211.x
Bull. Mar. Sci., Vol. 40, 1987 (pp. 287-303)
17. W.M. Goldberg, **Y. Benayahu**
Spicule formation in the gorgonian coral *Pseudoplexaura flagellosa* 2. Calcium localization by antimonate precipitation
Bull. Mar. Sci., Vol. 40, 1987 (pp. 304-310)
18. **Y. Benayahu**, Y. Loya
Long-term recruitment of soft-corals (Octocorallia: Alcyonacea) on artificial substrata at Eilat (Red Sea)
DOI: 10.3354/meps038161
Mar. Ecol. Prog. Ser., Vol. 38, 1987 (pp. 161-167)
19. D. Green, S. Carmely, **Y. Benayahu**, Y. Kashman
Antheliolide A & B: Two new C₂₄ Acetoacetylated diterpenoids of the soft coral *Anthelia glauca*
DOI: 10.1016/S0040-4039(00)80366-4
Tet. Lett., Vol. 29, 1988 (pp. 1605-1608)
20. **Y. Benayahu**, Y. Achituv, T. Berner
Embryogenesis and acquisition of algal symbionts by planulae of *Xenia umbellata* (Octocorallia: Alcyonacea)
DOI: 10.1111/j.1438-8677.1988.tb00017.x
Mar. Biol., Vol. 100, 1988 (pp. 93-101)

21. A. Rudi, **Y. Benayahu**, I. Goldberg, Y. Kashman
Alkaloid metabolites of the marine tunicate *Eudistoma* sp.
DOI: 10.1016/S0040-4039(00)82134-6
Tet. Lett., Vol. 29, 1988 (pp. 3861-3862)
22. A. Rudi, **Y. Benayahu**, I. Goldberg, Y. Kashman
Eilatin, a novel alkaloid from the marine tunicate *Eudistoma* sp.
DOI: 10.1016/S0040-4039(00)82422-3
Tet. Lett., Vol. 29, 1988 (pp. 6655-6656)
23. **Y. Benayahu**, T. Berner, Y. Achituv
Development of planulae within a mesogleal coat in the soft coral *Heteroxenia fuscescens*
DOI: 10.1007/BF00391959
Mar. Biol., Vol. 100, 1989 (pp. 203-210)
24. **Y. Benayahu**
Reproductive cycle and developmental processes during embryogenesis of *Clavularia hamra* (Cnidaria: Octocorallia)
DOI: 10.1111/j.1463-6395.1989.tb01049.x
Acta Zoologica, Vol. 70, 1989 (pp. 29-36)
25. **Y. Benayahu**, Y. Achituv, T. Berner
Metamorphosis of an octocoral primary polyp and its infection by algal symbiosis
Symbiosis, Vol. 7, 1989 (pp. 159-169)
26. Y. Achituv, **Y. Benayahu**
Polyp dimorphism and functional sequential hermaphroditism in the soft coral *Heteroxenia fuscescens* (Octocorallia)
DOI: 10.3354/meps064263
Mar. Ecol. Prog. Ser., Vol. 64, 1990 (pp. 263-269)
27. **Y. Benayahu**
Xeniidae (Cnidaria: Octocorallia) from the Red Sea with description of a new species
Zool. Meded. Leiden, Vol. 64(15), 1990 (pp. 113-120)
28. **Y. Benayahu**
Reproduction and developmental pathways of Red Sea Xeniidae (Octocorallia: Alcyonacea)
DOI: 10.1007/BF00026452
Hydrobiologia, Vol. 216/217, 1991 (pp. 125-130)
29. L.V. Salvini-Plawen, **Y. Benayahu**
Epimenia arabica spec. nov., a Solenogaster (Mollusca) feeding on the alcyonacean *Scleronephthya corymbosa* (Cnidaria) from shallow waters of the Red Sea
DOI: 10.1111/j.1439-0485.1991.tb00248.x
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30. **Y. Benayahu**, D. Weil, Z. Malik
Entry of algal symbionts into oocytes of *Litophyton arboreum* (Cnidaria, Octocorallia)

DOI: 10.1016/0040-8166(92)90063-D
Tissue & Cell, Vol. 24, 1992 (pp. 473-482)

31. L.P. Ofwegen van, **Y. Benayahu**
Notes on Alcyonacea (Octocorallia) from Tanzania
Zool. Meded. Leiden, Vol. 66, 1992 (pp. 139-154)
32. Y. Achituv, **Y. Benayahu**, J. Hanania
Planulae brooding and acquisition of zooxanthellae in *Xenia macrospiculata* (Cnidaria: Octocorallia)
DOI: 10.1007/BF02367101
Helgol. Meeresunt., Vol. 46, 1992 (pp. 301-310)
33. D. Green, Y. Kashman, **Y. Benayahu**
Secondary metabolites of the yellow and gray morphs of the soft coral
Parerythropodium fulvum fulvum: comparative aspects
DOI: 10.1021/np50087a004
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34. **Y. Benayahu**
Corals of the South-West Indian Ocean I. Alcyonacea from Sodwana Bay, South Africa
Oceanogr. Res. Inst. Investig. Rep., Vol. 67, 1993 (pp. 1-15)
35. A. Rudi, I. Goldberg, Z. Stein, **Y. Benayahu**, M. Schleyer, Y. Kashman
Sodwanones A-C, three new triterpenoids from a marine sponge
DOI: 10.1016/S0040-4039(00)79270-7
Tet. Lett., Vol. 34, 1993 (pp. 3943-3944)
36. A. Rudi, R. Talpir, Y. Kashman, **Y. Benayahu**, M. Schleyer
Four new C₁₆ 1,2-Dioxene-polketides from the sponge *Plakortis aff. Simplex*
DOI: 10.1021/np50102a023
J. Nat. Prod., Vol. 56, 1993 (pp. 2178-2882)
37. A. Rudi, I. Goldberg, Z. Stein, F. Frolow, **Y. Benayahu**, M. Schleyer, Y. Kashman
Polycitone A and Polycitone B: New alkaloids from the marine ascidian *Polycitor* sp.
DOI: 10.1021/jo00084a015
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38. A. Rudi, S. Green, I. Goldberg, Y. Kashman, **Y. Benayahu**, M. Schleyer
Phorbazoles A-D, novel chlorinated Phenylpyrrolyl-oxazoles from the marine sponge
Phorbis aff. Clathrate
DOI: 10.1016/S0040-4039(00)77179-6
Tet. Lett., Vol. 35, 1994 (pp. 2589-2592)
39. R. Talpir, Y. Kashman, **Y. Benayahu**, L. Pannell, M. Schleyer
Hemiasterlin and Geodiamolide TA: Two new cytotoxic peptides from the marine
sponge *Hemiasterella minor* (Kirkpatrick)
DOI: 10.1016/S0040-4039(00)73382-X
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40. A. Rudi, S. Green, I. Goldberg, Y. Kashman, **Y. Benayahu**, M. Schleyer

- Amino acid derivatives from the marine sponge *Jaspis digonoxea*
DOI: 10.1021/np50108a023
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41. S. Isaacs, Y. Kashman, **Y. Benayahu**
3-Hydroxy-7-Phenyl-4E-6E-Heptadienoic acid from an ascidian *Didemnum granulatum*
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42. A. Rudi, Y. Kashman, **Y. Benayahu**, M. Schleyer
Sodwanones A-F, new triterpenoids from the marine sponge *Axinella weltneri*
DOI: 10.1021/np50112a011
J. Nat. Prod., Vol. 57, 1994 (pp. 1416-1423)
43. Y. Kashman, M. Saltoun, A. Rudi, **Y. Benayahu**
Xeniafaraunol A and B and Faraunatin: three new cytotoxic diterpenes from the soft coral *Xenia faraunensis*
DOI: 10.1002/chin.199516221
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44. K. Fabricius, **Y. Benayahu**, A. Genin
Herbivory in asymbiotic soft corals
DOI: 10.1126/science.268.5207.90
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45. **Y. Benayahu**
Species composition of soft corals (Octocorallia, Alcyonacea) at the coral reefs of Sesoko Island, Ryukyu Archipelago, Japan
DOI: 10.1016/0264-2751(95)90077-2
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46. K. Fabricius, A. Genin, **Y. Benayahu**
Flow-dependent herbivory and growth in zooxanthellae-free soft corals
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47. **Y. Benayahu**, M. Schleyer
Corals of the South-West Indian Ocean II. *Eleutherobia aurea* spec. nov. (Cnidaria, Alcyonacea) from deep reefs on the Kwazulu-Natal coast, South Africa
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48. A. Rudi, S. Ketzinel, Y. Kashman, **Y. Benayahu**, M. Schleyer
Antheliatin, Zahavin A and B, three new cytotoxic xenicane diterpenes from two soft Corals
DOI: 10.1021/np50124a016
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49. A. Rudi, I. Goldberg, Z. Stein, Y. Kashman, **Y. Benayahu**, M. Schleyer, L.G. Gravalos
Sodwanones G, H, and I: New cytotoxic triterpenes from a marine sponge
DOI: 10.1021/np50125a009

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50. G. Koren-Goldshlager, P. Klein, A. Rudi, **Y. Benayahu**, M. Schleyer
Sindurool and Nephthoside: New tetraprenyltoluquinols from the soft coral *Sinularia dura*
and *Nephthea* sp.
DOI: 10.1021/np960118m
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51. **Y. Benayahu**, M. Schleyer
Corals of the South-West Indian Ocean III. Alcyonacea (Octocorallia) of Bazaruto
Island, Mozambique: a re-description of *Cladiella australis* (Macfadyen, 1936) and
description of *Cladiella kashmani* spec. nov.
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52. G. Henning, D.K. Hofmann, **Y. Benayahu**
The phorbol ester TPA induces metamorphosis in Red Sea coral planulae (Cnidaria,
Anthozoa)
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53. R. Ben-David-Zaslow, **Y. Benayahu**
Longevity, competence, and energetic content in planulae of the soft coral *Heteroxenia*
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3. Perkol S. and **Y. Benayahu**. What is blue and white and floating in the Red Sea?
Dubekoral. *Yam Magazin* Vol. 74, 2000 (pp. 28-34) (In Hebrew)

APPENDIX

TEACHING RESPONSIBILITIES

Name of course	No. of students per year	Period
<u>A. Undergraduate courses and research projects</u>		
1. Selected topics in Zoology (lectures, labs & field trips)	125	1983-1985
2. The Fauna of Israel (lectures & field trips)	25	2001-2006
3. Introduction to the Animal Kingdom-Invertebrates	470	2004-2006
4. Invertebrate Zoology (lectures, labs & field trips)	72	1986-2007
5. Literature seminars	5	1986-present
6. Ecological System of the Red Sea (Interuniversity course)	24	1989-2012
7. Research projects (each 60-100 hours of lab & field work)	4	1988-present
<u>B. Advanced courses</u>		
1. Coral Reef Ecology (jointly with Prof. Y. Loya)	12-16	1996-2000
2. Seminar for PhD students in Environ. Studies	15-25	2007-2008
3. Selected topics in Marine Invertebrates	15-20	1988-2004
4. Red Sea Invertebrates (Interuniversity course) (lectures, labs & field trips)	24	1990-present
5. Marine Biology (jointly with others)	65	2005-present
6. Marine systems of the Mediterranean Region: Environmental challenges (MA International Program)	40	2011-present
<u>C. International advanced courses and workshops</u>		
1. Systematics of Octocorallia Sponsored by UNESCO - Phuket, Thailand (lectures, labs & field trips)	18	1987
2. Marine Invertebrate Workshop – Octocorallia Hosted by the National Taiwan University, Taipei (lectures, labs & cruises)	20	1994
3. Octocoral Workshop Sponsored by the Hawaii Coral Reef Initiative (HCRI) (lectures & labs)	22	2005

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| 4. | Octocoral Workshop
National Sun Yet-Sen Univ., Kaohsiung, Taiwan | 10 | 2006 |
| 5. | Octocoral Workshop
Phuket Marine Biology Center, Phuket, Thailand
(lectures & labs) | 25 | 2007 |
| 6. | Octocoral Workshop
Phuket Marine Biology Center, Phuket, Thailand
(lectures & labs) | 20 | 2013 |
| 7. | Octocoral Workshop
National Sun Yet-Sen Univ., Kaohsiung, Taiwan | 25 | 2016 |
| 8. | Octocoral Workshop
University of the Philippines, Marine Science
Institute's Bolinao Marine Laboratory | 12 | 2019 |
| 9. | Octocoral taxonomy and phylogeny workshop
Under the auspices of the NSF-BSF funded project-
The Indo-Pacific zooxanthellate octocorals:
An integrative approach to species delimitation,
phylogenetics and biogeography and MAF WORLD •
COST ACTION CA20102- Marine Animal Forest of the World
Interuniversity Institute for Marine Sciences, Eilat, Israel | 29 | 2023 |
| 10. | Octocoral Workshop
MNHN, Paris | 15 | 2023 |