

Curriculum Vitae – Gal Eyal

Marie Skłodowska-Curie postdoctoral fellow (IF-GF) at the University of Queensland, Australia and Bar-Ilan University, Israel

Cover Sheet

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Languages English, Hebrew

Education

1994-1998 Graduation at Sde-Boker High-school of Environmental Studies (class of biology, geology and ecological desert studies).

2005-2008 B.Sc. at the School of Marine Sciences, Ruppin Academic Center, Michmoret campus (With Honors).

2010-2012 M.Sc. at the Faculty of Life Sciences, Tel-Aviv University & The Interuniversity Institute in Eilat (IUI). Title: “*Ecology and taxonomy of mesophotic communities in Israel (Red Sea and Mediterranean)*”, Supervisor: Prof. Yossi Loya

2012-2017 Ph.D. at the Faculty of Life Sciences, Tel-Aviv University & IUI. Title: “*Ecology and physiology of mesophotic scleractinian corals at Eilat (northern Red Sea)*”, Supervisor: Prof. Yossi Loya.

2017-2018 Postdoctoral fellow at The Steinhardt Museum of Natural History, Israel National Center for Biodiversity Studies, Tel-Aviv University. Title: “*Comprehensive and taxonomical study of the mesophotic coral fauna from the Gulf of Eilat/Aqaba*”.

2018-2021 Marie Skłodowska-Curie global postdoctoral fellow at the University of Queensland, Australia and Bar-Ilan University, Israel. Title: “*Past and present mesophotic coral ecosystems as a predictor for survival of coral reefs in an era of climate change*”.

Publications (peer-reviewed)

1. Gal Eyal, Lee Eyal-Shaham, Yossi Loya (2011) “Teeth-anchorage”: sleeping behavior of a Red Sea filefish on a branching coral. *Coral Reefs* 30:707. DOI: [10.1007/s00338-011-0766-y](https://doi.org/10.1007/s00338-011-0766-y)
2. Galia Pasternak, Roni Ziv, Gal Eyal, Sigal Shefer, Henk K. Mienis, Oz Rittner, Bella S. Galil (2011) On the population of *Chromodoris annulata* Eliot, 1904 (Mollusca: Opisthobranchia: Chromodorididae) off the Mediterranean coast of Israel. *Aquatic Invasions* 6/1:S91–S93. DOI: [10.3391/ai.2011.6.S1.021](https://doi.org/10.3391/ai.2011.6.S1.021)

3. Adi Lavy, **Gal Eyal**, Benjamin Neal, Ray Keren, Yossi Loya, Micha Ilan (2015) A quick, easy, and non-intrusive method for underwater volume and surface area evaluation of benthic organisms by 3D computer modeling. *Methods in Ecology and Evolution* 6: 521–531. DOI: [10.1111/2041-210X.12331](https://doi.org/10.1111/2041-210X.12331)
4. Or Ben-Zvi, **Gal Eyal**, Yossi Loya (2015) Light-dependent fluorescence in the coral *Galaxea fascicularis*. *Hydrobiologia* 759:15-26. DOI: [10.1007/s10750-014-2063-6](https://doi.org/10.1007/s10750-014-2063-6)
5. Timor Katz, Hanan Ginat, **Gal Eyal**, Zvi Steiner, Yael Braun, Shariel Shalev, Beverly Goodman-Tchernov (2015) Desert flash floods form hyperpycnal plumes in the coral-rich Gulf of Aqaba, Red Sea. *Earth and Planetary Science Letters*, 417:87-98. DOI: [10.1016/j.epsl.2015.02.025](https://doi.org/10.1016/j.epsl.2015.02.025)
6. **Gal Eyal**, Jörg Wiedenmann, Mila Grinblat, Cecilia D'Angelo, Raz Tamir, Esti Kramarsky-Winter, Tali Treibitz, Or Ben-Zvi, Yonathan Shaked, Tyler Smith, Saki Harii, Vianney Denis, Tim Noyes, Yossi Loya (2015) Spectral diversity and regulation of coral fluorescence in a mesophotic reef habitat in the Red Sea. *PLoS ONE*, 10:e0128697. DOI: [10.1371/journal.pone.0128697](https://doi.org/10.1371/journal.pone.0128697)
7. **Gal Eyal**, Lee Eyal-Shaham, Itay Cohen, Or Ben-Zvi, Frederic Sinniger, Yossi Loya (2016) *Euphyllia paradivisa*, a successful mesophotic coral in the northern Gulf of Eilat/Aqaba, Red Sea. *Coral Reefs* 35:91-102. DOI: [10.1007/s00338-015-1372-1](https://doi.org/10.1007/s00338-015-1372-1)
8. Lee Eyal-Shaham*, **Gal Eyal***, Raz Tamir, Yossi Loya (2016) Reproduction, abundance and survivorship of two *Alveopora* spp. in the mesophotic reefs of Eilat, Red Sea. *Scientific Reports* 6:20964. DOI: [10.1038/srep20964](https://doi.org/10.1038/srep20964)*equal contribution
9. Yossi Loya, **Gal Eyal**, Tali Tribitz, Michael Lesser, Richard Appeldoorn (2016) Theme section on mesophotic coral reef ecosystems: advancements in knowledge and future perspectives. *Coral Reefs* 35:1-9. DOI: [10.1007/s00338-016-1410-7](https://doi.org/10.1007/s00338-016-1410-7)
10. Oscar Beijbom, Tali Treibitz, David I. Kline, **Gal Eyal**, Adi Khen, Benjamin Neal, Yossi Loya, B. Greg Mitchell, David Kriegman (2016) Improving Automated Annotation of Benthic Survey Images Using Wide-band Fluorescence. *Scientific Reports* 6: 23166. DOI: [10.1038/srep23166](https://doi.org/10.1038/srep23166)
11. Benjamin CC Hume, Christian R Voolstra, Chatchanit Arif, Cecilia d'Angelo, John Burt, **Gal Eyal**, Yossi Loya, Jörg Wiedenmann (2016) Ancestral genetic diversity associated with the rapid spread of stress-tolerant coral symbionts in response to Holocene climate change. *Proceedings of the National Academy of Sciences* 113:4416-4421. DOI: [10.1073/pnas.1601910113](https://doi.org/10.1073/pnas.1601910113)
12. Dominic A Andradi-Brown, Mark JA Vermeij, Marc Slattery, Michael Lesser, Ivonne Bejarano, Richard Appeldoorn, Gretchen Goodbody-Gringley, Alex D Chequer, Joanna M Pitt, Corey Eddy, Struan R Smith, Eran Brokovich, Hudson T Pinheiro, Elliott Jessup, Bart Shepherd, Luiz A Rocha, Jocelyn Curtis-Quick, **Gal Eyal**, Timothy J Noyes, Alex D Rogers, Dan A Exton (2017) Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. *Biological Invasions* 19:939–954. DOI: [10.1007/s10530-016-1358-0](https://doi.org/10.1007/s10530-016-1358-0)

Book Chapters

1. **Gal Eyal**, Yossi Loya (2016) Eilat, Red Sea, Israel. in Baker EK, Puglise KA and Harris PT (Eds.). Mesophotic coral ecosystems - A lifeboat for coral reefs?, chapter 3.5: pages 28-30; The United Nations Environment Programme and GRID-Arendal, Nairobi and Arendal., ISBN: [978-82-7701-150-9](#)
2. Dominic Andradi-Brown, Jack Laverick, Ivonne Bejarano, Thomas Bridge, Patrick L. Colin, **Gal Eyal**, et al. (2016) Threats to mesophotic coral ecosystems and management options. in Baker EK, Puglise KA and Harris PT (Eds.). Mesophotic coral ecosystems - A lifeboat for coral reefs?, chapter 6: pages 67-82; The United Nations Environment Programme and GRID-Arendal., ISBN: [978-82-7701-150-9](#)
3. **Gal Eyal**, Raz Tamir, Nati Kramer, Lee Eyal-Shaham, Yossi Loya (2018) The Red Sea Mesophotic Coral Ecosystems, In: Loya Y, Puglise KA, Bridge TCL (Eds.) Mesophotic coral ecosystems, Springer, New York (In Press).
4. Joseph A. Turner, Dominic A Andradi-Brown, Andrea Gori, Pim Bongaerts, Heidi L Burdett, Christine Ferrier-Pagès, Christian R Voolstra, David K Weinstein, Tom CL Bridge, Federica Costantini, Erika Gress, Jack Laverick, Yossi Loya, Gretchen Goodbody-Gringley, Sergio Rossi, Michelle L Taylor, Nuria Viladrich, Joshua Voss, Joel Williams, Lucy C Woodall, **Gal Eyal** (2018) Key questions for research and conservation of mesophotic coral ecosystems and temperate mesophotic ecosystems. In: Loya Y, Puglise KA, Bridge TCL (Eds.) Mesophotic coral ecosystems. Springer, New York (In Press).
5. Tsuyoshi Watanabe, Takaaki K Watanabe, Atsuko Yamazaki, Shiori Yoneta, Kohki Sowa, Frederic Sinniger, **Gal Eyal**, Yossi Loya, Saki Harii (2018) Coral Sclerochronology: Similarities and Differences in the Coral Isotopic Signatures Between Mesophotic and Shallow-Water Reefs, In: Loya Y, Puglise KA, Bridge TCL (Eds.) Mesophotic coral ecosystems, Springer, New York (In Press).

Awards and Distinctions

- **MARIE SKŁODOWSKA-CURIE Individual Global Postdoctoral Fellowship** (2018-2021) 269,634€ from the Horizon 2020, European Commission. Title: "*Past and present mesophotic coral ecosystems as a predictor for survival of coral reefs in an era of climate change*".
- **The Steinhardt Museum of Natural History Postdoctoral Fellowship** (2017-2018) 30,000\$ from the Israel National Center for Biodiversity Studies. Title: "*Comprehensive and taxonomical study of the mesophotic coral fauna from the Gulf of Eilat/Aqaba*".
- **ECRS Student Grant Award** (2017) 300£ from the International Society of Reefs Studies ([ISRS](#)); Participation in the European Coral Reef Symposium ([ECRS](#)) 2017, Oxford, UK. Title: "*The Mesophotic Coral Ecosystems of Eilat*".
- **Maccabim Foundation Ph.D. Achievement Award** (2017) 1,500\$ from the descendants of Iran in New York, USA.
- **Jewish National Fund Fellow in Environmental Studies** (2016-2017) 5,000\$ from the Rieger Foundation, Santa Barbara, CA, USA.

- **The Smolarz family graduate school Research Achievement Award** (2016) 1,500\$ from George S. Wise Faculty of Life Sciences, Tel-Aviv University.
- **Aharon and Ephraim Katzir Study Grant** (2016) 5,000\$ from The Israel Academy of Sciences and Humanities ([link](#)). Research study grant in Okinawa, Japan. Title: “*Mesophotic coral ecosystems (MCEs) as a refuge and propagule source for shallow coral reefs*”.
- **MERCI Travel Grant** (2016) 1,500\$ from the Med Sea Research Center ([MERCI](#)); Participation in the 13th International Coral Reef Symposium (ICRS), Honolulu, Hawaii. Title: “*Photoacclimation and induction of light-enhanced calcification in the mesophotic coral Euphyllia paradivisa*”.
- **GRTF Travel Grant** (2015) 5,000\$ from the Naomi Foundation ([GRTF](#)). Research travel grant in Okinawa, Japan. Title: “*Ecology and Molecular taxonomy for assessing biodiversity and phylogeny of mesophotic (deep-reef) coral ecosystems at Eilat (Red Sea) and Okinawa, Japan.*”.
- **MERCI Travel Grant** (2015) 1,500\$ from the Med Sea Research Center of Israel. Study grant in the University of the Ryukyus, Japan. Title: “*Molecular taxonomy for assessing biodiversity of mesophotic corals from the Mediterranean Sea*”.
- **Lev Fishelson Travel Grant** (2015) 400\$ from the Department of Zoology, TAU.
- **ITI Travel Grant** (2015) 728\$ from The Israel Taxonomy Initiative ([ITI](#)). Study grant in the University of the Ryukyus, Japan. Title: “*Taxonomy, phylogeny and biodiversity of mesophotic corals from the Gulf of Eilat/Aqaba*”.
- **SBM Ph.D. Scholarship** (2013-2016) 80,000\$ from The National Fellowship Program for Marine Conservation ([SBM](#)) Title: “*Biodiversity of the Mesophotic Reef Ecosystems of the eastern Mediterranean-Sea*”.
- **ITI Travel Grant** (2013) 5,000\$ from The Israel Taxonomy Initiative ([ITI](#)) Study grant in the Museum of Tropical Queensland in Townsville, Queensland, Australia. Title: “*Taxonomy of mesophotic corals from the Gulf of Eilat*”.
- **ITI Ph.D. Scholarship** (2012-2016) 30,000\$ from The Israel Taxonomy Initiative Title: “*Taxonomy of deep (mesophotic) corals from Israel*”.
- **Berko Award** (2012) 1,500\$ from The Interuniversity Institute for Marine Sciences in Eilat ([IUI](#)). Title: “*Ecology and Taxonomy of mesophotic communities in Eilat*”.
- **Kevin Gurr Award** (2011) *Honorable mentions* from the American Academy of Underwater Sciences ([AAUS](#)). Scientific diving research award. Title: “*Coral recruitment in the Mesophotic Coral Ecosystem of Eilat, Red-Sea*”.

Presentations

- **2018** - *Short- and Long-Term Adaptation of Corals to Mesophotic Environments in the Northern Red Sea* (Invited oral presentation) at The Gordon Research Conference on Mesophotic Coral Reefs ([GRC](#)), Maine, USA.
- **2017** - *The Mesophotic Coral Ecosystems of Eilat* (oral presentation) at the European Coral Reef Symposium ([ECRS](#)), Oxford, UK.
- **2016** - *Mesophotic Coral Ecosystems of Israel and Japan* (Invited oral presentation) at the 2nd Japan-Israel Workshop on biodiversity and connectivity in coral reef ecosystems in an era of global climate change, OIST, Okinawa, Japan.

- **2016** - *Photoacclimation and induction of light-enhanced calcification in the mesophotic coral Euphyllia paradivisa* (Oral presentation) at the 13th International Coral Reef Symposium ([ICRS](#)), Honolulu, Hawaii.
- **2015** - *Biodiversity of the Mesophotic Reef Ecosystem corals from the eastern Mediterranean-Sea* (Oral presentation) at the 1st Science-Based Management of Marine and Coastal Resources workshop in the University of Haifa, Israel.
- **2015** - *Scleractinian corals in the mesophotic environment of the northern Red Sea – New results* (Poster was presented by Prof. Michel Pichon) at the “Coral Reefs of Arabia” conference in the NYU of Abu Dhabi, Abu Dhabi.
- **2014** - *Mesophotic coral diversity of the coral reefs of Eilat, Red Sea* (Oral presentation) at the 2nd International Mesophotic workshop, Eilat, Israel.
- **2014** - *Scleractinian corals in the mesophotic environment of the northern Red Sea* (Poster) at the 2nd International Mesophotic workshop, Eilat, Israel.
- **2013** - *The Red Sea coral Euphyllia paradivisa: Is it Really Going Extinct?* (Oral presentation) at the 8th International Conference on Coelenterate Biology in Eilat.
- **2012** - *Ecology and taxonomy of the mesophotic coral ecosystems at Eilat* (Oral presentation) Berko award seminar at the Interuniversity Institute in Eilat, Israel.
- **2012** - *Ecology and taxonomy of mesophotic communities at Eilat (Red Sea)* (Poster) at the 48th conference of the Zoological Society of Israel, Ben-Gurion University of the Negev, Israel.
- **2012** - *Biodiversity of Mesophotic Corals in Eilat* (Poster) at ITI conference "Taxonomy, biodiversity and beyond: Global change, science and society", Tel-Aviv University, Israel.

Positions and Job Descriptions

- **2017** - Organizer of the Mesophotic session and workshop in the European Coral Reef Symposium (ECRS), Oxford, UK ([S-22](#), [W-1](#)).
- **2016-present** - Co-editor of [Mesophotic.org](#) professional database
- **2016-present** - Member in the [ISRS](#) Conservation Committee.
- **2016** - Member and Invited Keynote speaker in the Japan-Israel workshop “Biodiversity and connectivity in coral reef ecosystems in an era of global climate change”, Okinawa, Japan ([JCRS](#), [OIST](#), [SCJ](#)).
- **2016** - Organizer and Chair of two sessions in the 13th International Coral Reef Symposium (ICRS), Honolulu, Hawaii ([S29](#), [S45](#)).
- **2015** - Invited Keynote speaker in the KIKAI International Symposium for Coral Reef Sciences, Kikai institute for coral reef sciences, Hokkaido University, Japan.
- **2014** - Committee member and Coordinator of the 2nd International Mesophotic Workshop, Eilat, Red Sea, Israel ([MCEIsrael](#)).
- **2010-2017** - Teaching Assistant positions in the Interuniversity Institute for Marine Science in Eilat (IUI). Courses: “Biology of Corals”, “Marine Sedimentology”, “Biology and Systematics of Marine Invertebrates”, "Time and Rhythms in Aquatic Systems", and “Marine Geology and Geophysics”.
- **2007-2017** - Teaching Assistant positions at Ruppin Academic Center. Courses: “Underwater Research Methods”, “Mediterranean Ecosystem”.

- **2009-2014** - Researcher, Photographer and Video editor of marine ROV surveys, Israel Nature and National Parks Protection Authority.
- **2005-2010** - AAUS Diving Safety officer, Maritime college of Israel, Ruppin Academic Center.

Skills & Activities

- Skills: Coral Reefs, Mesophotic Coral Ecosystems, Physiology, Photosynthesis, Calcification, Fluorescence, GFP, Spectroscopy, Histology, Coral Reproduction, Marine Ecology, Environment, Ecosystem Ecology, Biodiversity, Invasive Species, Conservation Biology, Taxonomy, Community Ecology, Quantitative Ecology, Benthic Ecology, Ecological Monitoring, Invertebrate Zoology, Deep-Sea Corals, Red Sea, Mediterranean Sea, GIS, R, SigmaPlot, PAST, ROV, AUV, Scientific and Underwater Photography, Scientific Diving, Technical Diving Instructor, CCR Diving, Full Cave Diving, Aquarium Diving, Commercial Boat Skipper.
- Academic visiting:
 - **2012** - James Cook University (JCU) and the Museum of Tropical Queensland (MTQ), Townsville, AUSTRALIA. Hosted by Dr. Carden Wallace and Prof. Michel Pichon.
 - **2013, 2014** (summers) – Marine Science Station (MSS), The University of Jordan, Aqaba, JORDEN. Hosted by Prof. Fuad Al-Horani.
 - **2015, 2016** (summers) – Sesoko Station, Tropical Biosphere Research Center, University of the Ryukyus, Okinawa, JAPAN. Hosted by Dr. Saki Harii and Dr. Frederic Sinniger.
 - **2016** (December) - Okinawa Institute of Science and Technology Graduate University (OIST) for Japan-Israel workshop, Okinawa, JAPAN. Hosted by Science Council of Japan, OIST, JCRS and IASH)
- Memberships: American Academy of Underwater Sciences ([AAUS](#))
The Israeli Association for Aquatic Sciences ([IAAS](#))
The International Society for Reef Studies ([ISRS](#))
Mideast Coral Reef Society ([MCRS](#))
Mesophotic.org ([Editorial board](#))
- Journals Referee: *Coral Reefs* (Springer), *Marine Environmental Research* (Elsevier), *Scientific Reports* (Nature), *PloS One*, *Frontiers in Marine Science*, *ICES Journal of Marine Science*, *Global Ecology and Biogeography* (Wiley), *Marine Animal Forests* and *Coral Reefs of the World* (Springer-Books)