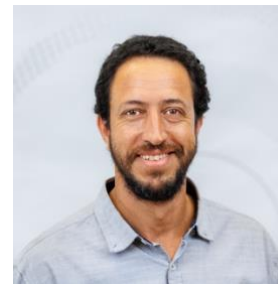


Curriculum Vitae – Gal Eyal, PhD

Senior Lecturer, Bar-Ilan University, Ramat Gan, ISRAEL
Head of The Marine Ecosystem Dynamic Laboratory



Cover Sheet

Name Gal Eyal
Office +972-3-7384031
Mobile +972-50-7384422
Emails gal.eyal1@biu.ac.il; g.eyal@uq.edu.au
Websites [Personal Page](#) | [MEDsLab](#)
Zoom (PMI) 499 781 6029

Education

2012-2017 Ph.D. at the Faculty of Life Sciences, Tel-Aviv University, ISRAEL.

Title: “*Ecology and physiology of mesophotic scleractinian corals at Eilat (northern Red Sea)*”, Advisor: Prof. Yossi Loya.

2010-2012 M.Sc. at the Faculty of Life Sciences, Tel-Aviv University, ISRAEL.

Title: “*Ecology and taxonomy of mesophotic communities in Israel (Red Sea and Mediterranean)*”, Supervisor: Prof. Yossi Loya.

2005-2008 B.Sc. at the Faculty of Marine Sciences, Ruppin Academic Center, Mikhmoret, ISRAEL.

Postdoctoral Research Experience

2021-2022 Postdoctoral research fellow at the University of Queensland, AUSTRALIA.

Title: “*Sustainable Urban Seascapes in Moreton Bay – Biodiversity & Ecosystem Dynamics*”

2018-2021 Marie Skłodowska-Curie 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*”.

2017-2018 Postdoctoral fellow at The Steinhardt Museum of Natural History, Israel National Center for Biodiversity Studies, Tel-Aviv University, ISRAEL.

Title: “*Comprehensive study of the mesophotic coral fauna from the Gulf of Eilat/Aqaba*”.

Professional Experience

- **2024-present** - Bar Ilan University's member in the board of directors and academic committee of Mediterranean Sea Research Center of Israel ([MERC](#)).
- **2016-present** - Member of the [ICRS](#) conservation committee.
- **2023-2026** - Adjunct Senior Researcher in the School of the Environment, The University of Queensland, Brisbane, AUSTRALIA.
- **2020-2023** - Guest editor of *Diversity* journal special issue "Biodiversity of Mesophotic Ecosystems" (Issue webpage [here](#); editorial manuscript [here](#)).
- **2016-2023** - Editor of [Mesophotic.org](#) professional database (manuscript [here](#)).
- **2023** - Discussion leader and invited session chair at the Gordon Research Conference on Mesophotic Coral Reef Ecosystems, Ventura, CA, USA.
- **2018-2022** - Affiliated researcher at the Australian Research Council Centre of Excellence for Coral Reef Studies ([CoralCoE](#)).
- **2021** – Committee member and invited keynote speaker and chair of the "Mesophotic Ecosystems Diversity" in the 1st International Electronic Conference on Biological Diversity, Ecology and Evolution ([BDEE2021](#)), Online.
- **2021/2** – Chair of the "Mesophotic Coral Ecosystems: Lifeboats in the Challenging Future of Coral Reefs?" session in the 14th International Coral Reef Symposium (ICRS), Germany ([Theme 6](#)).
- **2019** – Chair and committee member at the 2nd International Coral Reefs Forum ([ICRF](#)), China.

- **2019** – Chair of the "Mesophotic and deep-sea ecosystems for a blue economy" session in the Australian Marine Sciences Association ([AMSA](#)) conference, Fremantle, WA, Australia.
- **2017** - Chair of the mesophotic session and workshop in the European Coral Reef Symposium (ECRS), Oxford, UK ([S-22](#), [W-1](#); workshop manuscript [here](#)).
- **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](#)) by the Israel Academy of Sciences and Humanities.
- **2016** - Organizer and chair of two sessions in the 13th International Coral Reef Symposium (ICRS), Honolulu, Hawaii ([S29](#), [S45](#)).
- **2014** - Committee member and coordinator of the 2nd International Mesophotic Workshop, Eilat, Red Sea, Israel ([MCEIsrael](#); workshop manuscript [here](#)).
- **2005-2010** - AAUS Diving Safety Officer, Maritime College of Israel, Ruppin Academic Center.

Publications (peer-reviewed) - *Citations 2478; h-index 26; i10-index 50* ([Google Scholar](#))

1. **Gal Eyal**, David K. Weinstein, Nicholas M. Hammerman, Yonatan Shaked, Adi Torfstein (**Under Review**) Faunal transitions and unanticipated high accretion rates of mesophotic coral rubble fields.
2. Devin A. Rowell, Nicholas M. Hammerman, Kirsten M. Golding, Tania M. Kenyon, Zoe Meziere, Courtney Morgans, Kristen T. Brown, Faye F. Diederiks, David E. Carrasco Rivera, Karen Eigeland, Roima Paewai-Huggins, Kathryn Markey, Maria Beger, Fiona Chong, Gabriella Donno, Alice Dutto, Wanchien Victoria Hsiao, Stuart Kinninmonth, Caitlin A. Lawson, Heather Middleton, **Gal Eyal**, Chris Roelfsema (**Under Review**) Multi-scale observations of the 2024 mass coral bleaching event on Heron Reef, Australia. *Marine Biology*. (IF 2023 – 2.3, Q2)
3. Mark Eakin et al. (**Under Review**) Severe and widespread coral reef damage during the 2014-2017 Global Coral Bleaching Event. *Nature communications*. (IF 2023 - 16.1, Q1) DOI (preprint): [10.21203/rs.3.rs-1555992/v1](#)
4. Katia C. Capel, Inbal Ayalon, Noa Simon-Blecher, Adi Zweifler Zvifler, Jennifer I.C. Benichou, **Gal Eyal**, Dror Avisar, Jonathan Roth, Pim Bongaerts, Oren Levy (**2025**) Depth-structured lineages in the coral *Stylophora pistillata* of the Northern Red Sea. *npj Biodiversity* 4:13.(IF n.a, Q1) DOI: [10.1038/s44185-025-00083-9](#)
5. Alistair Grinham, Tony Costantini, Nathaniel Deering, Cameron Jackson, Carissa Klien, Catherine Lovelock, John Pandolfi, **Gal Eyal**, Michael Linde, Matthew Dunbabin, Brendon Duncan, Nichlas Hutley, Ilha Byrne, Craig Wilson, Simon Albert (**2024**) Short and long-term impacts of a major flood on fine sediment and nitrogen loading to a large coastal embayment. *Science of the Total Environment* 918:170646. (IF 2022 - 10.753, Q1) DOI: [10.1016/j.scitotenv.2024.170646](#)
6. Jörg Wiedenmann, Cecilia D'Angelo, Maria Loreto Mardones Velozo, Shona Moore, Cassandra E. Benkwitt, Nicholas A.J. Graham, Bastian Hambach, Paul A. Wilson, James Vanstone, **Gal Eyal**, Or Ben-Zvi, Yossi Loya, Amatzia Genin (**2023**) Reef-building corals farm and feed on their photosynthetic symbionts. *Nature* 620:1018-1024. (Impact Factor 2022 - 69.504, Q1) DOI: [10.1038/s41586-023-06442-5](#)
7. Johanna C. Gijsbers, Norbert Englebert, Katharine E. Prata, Michel Pichon, Zena Dinesen, Ramona Brunner, **Gal Eyal**, Fanny L. González-Zapata, Samuel E. Kahng, Kelly R.W. Latijnhouwers, Paul Muir, Veronica Z. Radice, Juan Armando Sánchez, Mark J.A. Vermeij, Ove Hoegh-Guldberg, Sarah J. Jacobs, Pim Bongaerts (**2023**) Global phylogenomic assessment of *Leptoseris* and *Agaricia* reveals substantial undescribed diversity at mesophotic depths. *BMC Biology* 21:147. (Impact Factor 2022 - 7.364, Q1) DOI: [10.1186/s12915-023-01630-1](#)
8. Mila Grinblat, Lee Eyal-Shaham, **Gal Eyal**, Or Ben-Zvi, Saki Harii, Masaya Morita, Kazuhiko Sakai, Mamiko Hirose, David J. Miller, Yossi Loya (**2023**) Energy allocation trade-offs as a function of age in fungiid corals. *Frontiers in Marine Science* 10:1113987. (IF 2022 - 5.247, Q1) DOI: [10.3389/fmars.2023.1113987](#)
9. Miguel Ángel Pérez-Castro, **Gal Eyal**, Gerardo Esteban Leyte-Morales, Gustavo Hinojosa-Arango, Susana Enríquez (**2023**) Benthic Characterization of Mesophotic Communities Based on Optical Depths in the

- Southern Mexican Pacific Coast (Oaxaca). *Diversity* 15:531. (IF 2022 - 3.029, Q2) DOI: [10.3390/d15040531](https://doi.org/10.3390/d15040531)
10. Kristen T. Brown, **Gal Eyal**, Sophie G. Dove, Katie L. Barott (2023) Fine-scale heterogeneity reveals disproportionate thermal stress and coral mortality in thermally variable reef habitats during a marine heatwave. *Coral Reefs* 42:131-142. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-022-02328-6](https://doi.org/10.1007/s00338-022-02328-6)
 11. Mieka Rinsky, Eviatar Weizman, Hiba Waldman Ben-Asher, **Gal Eyal**, Bokai Zhu, Oren Levy (2022) Temporal gene expression patterns in the coral *Euphyllia paradivisa* reveal the complexity of biological clocks in the cnidarian-algal symbiosis. *Science Advances* 8:6467. (IF 2022 - 14.957, Q1) DOI: [10.1126/sciadv.abo6467](https://doi.org/10.1126/sciadv.abo6467)
 12. Nicholas M. Hammerman, George Roff, Tracy Lybolt, **Gal Eyal**, John M. Pandolfi (2022) Unravelling Moreton Bay reef history: an urban high-latitude setting for coral development. *Frontiers in Ecology and Evolution* 10:884850. (IF 2022 - 4.493, Q2) DOI: [10.3389/fevo.2022.884850](https://doi.org/10.3389/fevo.2022.884850)
 13. **Gal Eyal**, Jack H. Laverick, Or Ben-Zvi, Kristen T. Brown, Netanel Kramer, Raz Tamir, Oren Levy, John M. Pandolfi (2022) Selective deep water coral bleaching occurs through depth isolation. *Science of the Total Environment* 844:157180. (IF 2022 - 10.753, Q1) DOI: [10.1016/j.scitotenv.2022.157180](https://doi.org/10.1016/j.scitotenv.2022.157180)
 14. Or Ben-Zvi, Yoav Lindeman, **Gal Eyal**, Yossi Loya (2022) Coral fluorescence: a prey-lure in deep habitats. *Communications Biology* 5:537. (IF 2022 - 6.548, Q1) DOI: [10.1038/s42003-022-03460-3](https://doi.org/10.1038/s42003-022-03460-3)
 15. Netanel Kramer, **Gal Eyal**, Raz Tamir, Yossi Loya (2022) Growth and survival dynamics of mesophotic coral juveniles in shallow reefs. *Marine Ecology Progress Series* 682:237-242. (IF 2022 - 2.915, Q1) DOI: [10.3354/meps13956](https://doi.org/10.3354/meps13956)
 16. Nicholas M. Hammerman, George Roff, Alberto Rodriguez-Ramirez, Nicole Leonard, Timothy L. Staples, **Gal Eyal**, Susann Roszbach, Michelle N. Havlik, Vincent Saderne, Jian-xin Zhao, Carlos M. Duarte, John M. Pandolfi (2022) Reef accumulation is decoupled from recent degradation in the central and southern Red Sea. *Science of the Total Environment* 809:151176. (IF 2022 - 10.753, Q1) DOI: [10.1016/j.scitotenv.2021.151176](https://doi.org/10.1016/j.scitotenv.2021.151176)
 17. Miguel Ángel Pérez-Castro, Nadine Schubert, Gabriela Ang-Montes de Oca, Gerardo Leyte-Morales, **Gal Eyal**, Gustavo Hinojosa-Arango (2022) Mesophotic coral ecosystems in the Eastern Tropical Pacific: The current state of knowledge and the spatial variability of their depth boundaries. *Science of the Total Environment* 806:150576. (IF 2022 - 10.753, Q1) DOI: [10.1016/j.scitotenv.2021.150576](https://doi.org/10.1016/j.scitotenv.2021.150576)
 18. Andrew Baird et al. (2021) A coral spawning calendar for Sesoko Station, Okinawa, Japan. *Galaxea, Journal of Coral Reef Studies* G2021_S100. (IF 2022 - NA) DOI: [10.3755/galaxea.G2021_S100](https://doi.org/10.3755/galaxea.G2021_S100)
 19. Hideaki Yuasa, Rei Kajitani, Yuta Nakamura, Kazuki Takahashi, Miki Okuno, Fumiya Kobayashi, Takahiro Shinoda, Atsushi Toyoda, Yutaka Suzuki, Naline Thongtham, Zac Forsman, Omri Bronstein, Davide Seveso, Enrico Montalbetti, Coralie Taquet, **Gal Eyal**, Nina Yasuda, Takehiko Itoh (2021) Elucidation of the speciation history of three sister species of crown-of-thorns starfish (*Acanthaster* Spp.) based on genomic analysis. *DNA Research* dsab012. (IF 2022 - 4.477, Q1) DOI: [10.1093/dnares/dsab012](https://doi.org/10.1093/dnares/dsab012)
 20. **Gal Eyal**, Lee Eyal-Shaham, Yossi Loya (2021) Symbiodiniaceae conduct under natural bleaching stress during advanced gametogenesis stages of a mesophotic coral. *Coral Reefs* 40:959-964. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-021-02082-1](https://doi.org/10.1007/s00338-021-02082-1)
 21. Pim Bongaerts, Ira R Cooke, Hua Ying, Dagmar Wels, Stijn den Haan, Alejandra Hernandez-Agreda, Chris A Brunner, Sophie Dove, Norbert Englebert, **Gal Eyal**, Sylvain Foret, Mila Grinblat, Kyra B Hay, Saki Harii, David C Hayward, Yu Lin, Morana Mihaljevic, Aurelie Moya, Paul Muir, Frederic Sinniger, Patrick Smallhorn-West, Gergely Torda, Mark A Ragan, Madeleine JH van Oppen, Ove Hoegh-Guldberg (2021) Morphological stasis masks ecologically divergent coral species on tropical reefs. *Current Biology* 31: 2286-2298. (IF 2022 - 10.9, Q1) DOI: [10.1016/j.cub.2021.03.028](https://doi.org/10.1016/j.cub.2021.03.028)
 22. Or Ben-Zvi, Daniel Wangpraseurt, Omri Bronstein, **Gal Eyal**, Yossi Loya (2021) Photosynthesis and bio-optical properties of fluorescent mesophotic corals. *Frontiers in Marine Science* 8:651601. (IF 2022 - 5.247, Q1) DOI: [10.3389/fmars.2021.651601](https://doi.org/10.3389/fmars.2021.651601)
 23. **Gal Eyal**, Jack A Laverick, Pim Bongaerts, Oren Levy, John M Pandolfi (2021) Mesophotic Coral Ecosystems of the Great Barrier Reef are understudied and underexplored. *Frontiers in Marine Science* 8:622856. (IF 2022 - 5.247, Q1) DOI: [10.3389/fmars.2021.622856](https://doi.org/10.3389/fmars.2021.622856)

24. Matan Yuval, Inigo Alonso, **Gal Eyal**, Dan Tchernov, Yossi Loya, Ana C Murillo, Tali Treibitz (2021) Repeatable Semantic Reef-Mapping Through Photogrammetry and Label-Augmentation. *Remote Sensing* 13:659. (IF 2022 - 5.349, Q1) DOI: [10.3390/rs13040659](https://doi.org/10.3390/rs13040659)
25. Andrew Baird et al. (2021) An Indo-Pacific coral spawning database. *Scientific Data* 8:35. (IF 2022 - 8.501, Q1) DOI: [10.1038/s41597-020-00793-8](https://doi.org/10.1038/s41597-020-00793-8)
26. David K Weinstein, Raz Tamir, Netanel Kramer, **Gal Eyal**, Igal Berenshtein, Yonathan Shaked, Yossi Loya, Adi Torfstein (2021) Mesophotic reef geomorphology categorization, habitat identification, and relationships with surface cover and terrace formation in the Gulf of Aqaba. *Geomorphology* 379:107548. (IF 2022 - 4.406, Q1) DOI: [10.1016/j.geomorph.2020.107548](https://doi.org/10.1016/j.geomorph.2020.107548)
27. Or Ben-Zvi, Eyal Ofer, **Gal Eyal**, Yossi Loya (2021) Experimental evidence of temperature-induced bleaching in two fluorescence morphs of a Red Sea mesophotic coral. *Coral Reefs* 40:187-199. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-020-02027-0](https://doi.org/10.1007/s00338-020-02027-0)
28. **Gal Eyal**, Hudson T Pinheiro (2020) Mesophotic Ecosystems: The Link between Shallow and Deep-Sea Habitats. *Diversity* 12:411. (IF 2022 - 3.029, Q2) DOI: [10.3390/d12110411](https://doi.org/10.3390/d12110411)
29. Lee Eyal-Shaham*, **Gal Eyal***, Or Ben-Zvi, Kazuhiko Sakai, Saki Harii, Frederic Sinniger, Mamiko Hirose, Patrick Cabaitan, Omri Bronstein, Bar Feldman, Tom Shlesinger, Oren Levy, Yossi Loya (2020) A unique reproductive strategy in the mushroom coral *Fungia fungites*. *Coral Reefs* 39:1793-1804. *Equal contribution (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-020-02004-7](https://doi.org/10.1007/s00338-020-02004-7)
30. Naohisa Wada, Hideaki Yuasa, Rei Kajitani, Yasuhiro Gotoh, Yoshitoshi Ogura, Dai Yoshimura, Atsushi Toyoda, Sen-Lin Tang, Yukihiro Higashimura, Hugh Sweatman, Zac Forman, Omri Bronstein, **Gal Eyal**, Naline Thongtham, Takehiko Itoh, Tetsuya Hayashi, Nina Yasuda (2020) A ubiquitous subcuticular bacterial symbiont of a coral predator, the crown-of-thorns starfish, in the Indo-Pacific. *Microbiome* 8:123. (IF 2022 - 16.837, Q1) DOI: [10.1186/s40168-020-00880-3](https://doi.org/10.1186/s40168-020-00880-3)
31. Netanel Kramer, Raz Tamir, **Gal Eyal**, Yossi Loya (2020) Coral morphology portrays the spatial distribution and population size-structure along a 5-100 m depth gradient. *Frontiers in Marine Science* 7:615. (IF 2022 - 5.247, Q1) DOI: [10.3389/fmars.2020.00615](https://doi.org/10.3389/fmars.2020.00615)
32. Jack H Laverick, Raz Tamir, **Gal Eyal**, Yossi Loya (2020) A generalised light-driven model of community transitions along coral reef depth gradients. *Global Ecology and Biogeography* 29:1554-1564. (IF 2022 - 6.909, Q1) DOI: [10.1111/geb.13140](https://doi.org/10.1111/geb.13140) ([Issue front Cover image](#))
33. Raz Tamir, Or Ben-Zvi, **Gal Eyal**, Netanel Kramer, Yossi Loya (2020) Reciprocal-transplantation between shallow and mesophotic stony corals. *Marine Environmental Research* 161:105035. (IF 2022 - 3.737, Q1) DOI: [10.1016/j.marenvres.2020.105035](https://doi.org/10.1016/j.marenvres.2020.105035)
34. Or Ben-Zvi, Raz Tamir, Nir Keren, Dan Tchernov, Ilana Berman-Frank, Yuval Kolodny, Tal Benaltabet, Harel Bavli, Mor Friedman, Noga Glanz-Idan, Hadar Traugott, Yossi Loya, **Gal Eyal** (2020) Photophysiology of a mesophotic coral 3 years after transplantation to a shallow environment. *Coral Reefs* 39:903-913. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-020-01910-0](https://doi.org/10.1007/s00338-020-01910-0)
35. Dalit Meron, Keren Maor-Landaw, **Gal Eyal**, Hila Elifantz, Ehud Banin, Yossi Loya, Oren Levy (2020) The complexity of the holobiont in the Red Sea coral *Euphyllia paradivisa* under heat stress. *Microorganisms* 8:372. (IF 2022 - 4.926, Q3) DOI: [10.3390/microorganisms8030372](https://doi.org/10.3390/microorganisms8030372)
36. Raz Tamir, **Gal Eyal**, Itay Cohen, Yossi Loya (2020) Effects of light pollution on the early life stages of the most abundant northern Red Sea coral. *Microorganisms* 8:193. (IF 2022 - 4.926, Q3) DOI: [10.3390/microorganisms8020193](https://doi.org/10.3390/microorganisms8020193)
37. Pim Bongaerts, Gonzalo Perez-Rosales, Veronica Z Radice, **Gal Eyal**, Andrea Gori, Erika Gress, Nicholas Hammerman, Alejandra Hernandez-Agreda, Jack Laverick, Paul Muir, Hudson Pinheiro, Richard Pyle, Luiz Rocha, Joseph A Turner, Ryan Booker (2019) Mesophotic.org: a repository for scientific information on mesophotic ecosystems. Database: The Journal of Biological Databases and Curation 2019:baz140. (IF 2022 - 4.462, Q1) DOI: [10.1093/database/baz140](https://doi.org/10.1093/database/baz140)
38. Inigo Alonso, Matan Yuval, **Gal Eyal**, Tali Treibitz, Ana C Murillo (2019) CoralSeg: Learning Coral Segmentation from Sparse Annotations. *Journal of Field Robotics* 36:1456-1477. (IF 2022 - 6.385, Q1) DOI: [10.1002/rob.21915](https://doi.org/10.1002/rob.21915)

39. Raz Tamir, **Gal Eyal**, Netanel Kramer, Jack H Laverick, Yossi Loya (2019) Light environment drives the shallow-to-mesophotic coral community transition. *Ecosphere* 10:e02839. (IF 2022 - 3.593, Q1) DOI: [10.1002/ecs2.2839](https://doi.org/10.1002/ecs2.2839)
40. Dalit Meron, Keren Maor-Landaw, Eviatar Weizman, Hiba Waldman Ben-Asher, **Gal Eyal**, Ehud Banin, Yossi Loya, Oren Levy (2019) The Algal Symbiont Modifies the Transcriptome of the Scleractinian Coral *Euphyllia paradivisa* During Heat Stress. *Microorganisms* 7:256. (IF 2022 - 4.926, Q3) DOI: [10.3390/microorganisms7080256](https://doi.org/10.3390/microorganisms7080256)
41. Yoav Lindemann, **Gal Eyal**, Amatzia Genin (2019) Intense capture of swarming pteropods by large-polyp corals. *Galaxea, Journal of Coral Reef Studies* 21:9-10. (IF 2022 - NA) DOI: [10.3755/galaxea.21.1_9](https://doi.org/10.3755/galaxea.21.1_9)
42. Hudson T Pinheiro, **Gal Eyal**, Bart Shepherd, Luiz A Rocha (2019) Ecological insights from environmental disturbances in mesophotic coral ecosystems. *Ecosphere* 10:e02666. (IF 2022 - 3.593, Q1) DOI: [10.1002/ecs2.2666](https://doi.org/10.1002/ecs2.2666)
43. Or Ben-Zvi, **Gal Eyal**, Yossi Loya (2019) Response of fluorescence morphs of the mesophotic coral *Euphyllia paradivisa* to ultra-violet radiation. *Scientific Reports* 9:5245. (IF 2022 - 4.996, Q1) DOI: [10.1038/s41598-019-41710-3](https://doi.org/10.1038/s41598-019-41710-3)
44. Lee Eyal-Shaham, **Gal Eyal**, Kazuhiko Sakai, Yoko Nozawa, Saki Harii, Frederic Sinniger, Omri Bronstein, Or Ben-Zvi, Tom Shlesinger, Yossi Loya (2019) Repetitive sex change in the stony coral *Herpolitha limax* across a wide geographic range. *Scientific Reports* 9:2936. (IF 2022 - 4.996, Q1) DOI: [10.1038/s41598-018-37619-y](https://doi.org/10.1038/s41598-018-37619-y)
45. Netanel Kramer, **Gal Eyal**, Raz Tamir, Yossi Loya (2019) Upper mesophotic depths in the coral reefs of Eilat, Red Sea, offer suitable refuge grounds for coral settlement. *Scientific Reports* 9:2263. (IF 2022 - 4.996, Q1) DOI: [10.1038/s41598-019-38795-1](https://doi.org/10.1038/s41598-019-38795-1)
46. **Gal Eyal**, Itay Cohen, Lee Eyal-Shaham, Or Ben-Zvi, Yaron Tikochinski, Yossi Loya (2019) Photoacclimation and induction of light-enhanced calcification in the mesophotic coral *Euphyllia paradivisa*. *Royal Society Open Science* 6:180527. (IF 2022 - 3.653, Q1) DOI: [10.1098/rsos.180527](https://doi.org/10.1098/rsos.180527)
47. 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**, et al. (2017) Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. *Biological Invasions* 19:939–954. (IF 2022 - 3.605, Q1) DOI: [10.1007/s10530-016-1358-0](https://doi.org/10.1007/s10530-016-1358-0)
48. 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. (IF 2022 - 12.779, Q1) DOI: [10.1073/pnas.1601910113](https://doi.org/10.1073/pnas.1601910113)
49. 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. (IF 2022 - 4.996, Q1) DOI: [10.1038/srep23166](https://doi.org/10.1038/srep23166)
50. 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. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-016-1410-7](https://doi.org/10.1007/s00338-016-1410-7)
51. 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. *Equal contribution (IF 2022 - 4.996, Q1) DOI: [10.1038/srep20964](https://doi.org/10.1038/srep20964)
52. **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. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-015-1372-1](https://doi.org/10.1007/s00338-015-1372-1)
53. **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. (IF 2022 - 3.752, Q1) DOI: [10.1371/journal.pone.0128697](https://doi.org/10.1371/journal.pone.0128697)
54. Timor Katz, Hanan Ginat, **Gal Eyal**, Zvi Steiner, Yael Braun, Shariel Shalev, Beverly Goodman-Tchernov (2015) Desert flash floods form hyperpynal plumes in the coral-rich Gulf of Aqaba, Red Sea. *Earth and Planetary Science Letters* 417:87-98. (IF 2022 - 5.785, Q1) DOI: [10.1016/j.epsl.2015.02.025](https://doi.org/10.1016/j.epsl.2015.02.025)
55. Or Ben-Zvi, **Gal Eyal**, Yossi Loya (2015) Light-dependent fluorescence in the coral *Galaxea fascicularis*. *Hydrobiologia* 759:15-26. (IF 2022 - 2.822, Q1) DOI: [10.1007/s10750-014-2063-6](https://doi.org/10.1007/s10750-014-2063-6)
56. 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 modelling. *Methods in Ecology and Evolution* 6: 521-531. (IF 2022 - 8.335, Q1) DOI: [10.1111/2041-210X.12331](https://doi.org/10.1111/2041-210X.12331)
57. 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. (IF 2022 - 2.651, Q2) DOI: [10.3391/ai.2011.6.S1.021](https://doi.org/10.3391/ai.2011.6.S1.021)
58. **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. (IF 2022 - 4.64, Q1) DOI: [10.1007/s00338-011-0766-y](https://doi.org/10.1007/s00338-011-0766-y)

Book Chapters (peer-reviewed)

59. Tyler B Smith, **Gal Eyal** (2025) *Mesophotic coral ecosystems as extreme and marginal habitats*. In: xxx (Eds.)
60. **Gal Eyal**, Matan Yuval, Tali Treibitz (2022) *The use of advanced technology for monitoring coral reefs*. In: Hamylton S, Hutchings P, Hoegh-Guldberg O (Eds.) *Coral Reefs of Australia: Perspectives from beyond the water's edge*. CSIRO Publishing. ISBN: [9781486315499](https://doi.org/10.1007/978-3-319-92735-0_11)
61. **Gal Eyal**, Raz Tamir, Netanel Kramer, Lee Eyal-Shaham, Yossi Loya (2019) *The Red Sea: Israel*. In: Loya Y, Puglise KA, Bridge TCL (Eds.) *Mesophotic Coral Ecosystems*. *Coral Reefs of the World*, vol 12. Springer, Cham. DOI: [10.1007/978-3-319-92735-0_11](https://doi.org/10.1007/978-3-319-92735-0_11)
62. 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** (2019) *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*. *Coral Reefs of the World*, vol 12. Springer, Cham. DOI: [10.1007/978-3-319-92735-0_52](https://doi.org/10.1007/978-3-319-92735-0_52)
63. Tsuyoshi Watanabe, Takaaki K Watanabe, Atsuko Yamazaki, Shiori Yoneta, Kohki Sowa, Frederic Sinniger, **Gal Eyal**, Yossi Loya, Saki Harii (2019) *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*. *Coral Reefs of the World*, vol 12. Springer, Cham. DOI: [10.1007/978-3-319-92735-0_36](https://doi.org/10.1007/978-3-319-92735-0_36)
64. Elaine Baker, Kristina Thygesen, Peter Harris, Dominic Andradi-Brown, Richard S Appeldoorn, David Ballantine, Ivonne Bejarano, Thomas CL Bridge, Patrick L Colin, **Gal Eyal**, et al. (2016) *Mesophotic coral ecosystems: a lifeboat for coral reefs?*. The United Nations Environment Programme and GRID-Arendal, Nairobi and Arendal., ISBN: [978-82-7701-150-9](https://doi.org/10.1007/978-82-7701-150-9)
65. **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: pages 28-30; The United Nations Environment Programme and GRID-Arendal, Nairobi and Arendal., ISBN: [978-82-7701-150-9](https://doi.org/10.1007/978-82-7701-150-9)
66. 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](https://doi.org/10.1007/978-82-7701-150-9)

Awards and Distinctions

- **The Open Areas Foundation research grant** (2025-2028) 100,000\$ from The Israel Lands Authority.
Title: "Ecological surveys in the deep canyons of the Gulf of Eilat".
- **MARIE SKŁODOWSKA-CURIE Individual Global Postdoctoral Fellowship** (2018-2022) 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". Project website [here](#).
- **Distinguished Talent Researcher (Visa subclass 858) for Permanent Residency in Australia** (2020) as identified under the Global Talent Independent Program of the Australian Government.
- **JMSE Travel Award** (2020) 800 CHF (Swiss Francs) from the Journal of Marine Science and Engineering for participating in the 14th International Coral Reef Symposium at Bremen (Germany) in 2021/2022.
- **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 at 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 at 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

- **2024** - *Historical and contemporary evaluation of Eilat's mesophotic coral ecosystems* (Oral presentation) at the European Coral Reefs Symposium ([ECRS2024](#)), Naples, Italy.
- **2024** - *Coral Reefs and Palaeoecology – Where is the connection?* (**Invited faculty seminar**) at Bar Ilan University, Ramat Gan, Israel.
- **2024** - *Temporal dynamics in marginal marine ecosystems* (**Invited faculty seminar**) at the University of Haifa, Mount Carmel, Israel.
- **2022** - *The application of photogrammetry and 3D model reconstructions for coral reef surveys: a case study of Moreton Bay, QLD, Australia* (Oral presentation) at the Australian Marine Sciences Association ([AMSA](#)) “Change and Connections” conference, Cairns, QLD, Australia.
- **2021** - *Background and Importance of Mesophotic Ecosystems Diversity* (**Invited speaker**) at the 1st International Electronic Conference on Biological Diversity, Ecology and Evolution ([BDEE2021](#)), Online.
- **2019** - *Mesophotic Coral Ecosystems in an Era of Climate Change* (**Invited keynote presentation**) at the Second International Coral Reefs Forum ([ICRF](#)), Sanya, China.
- **2019** - *Shading Light on the Mesophotic Ecosystems* (Oral presentation) at the Australian Marine Sciences Association ([AMSA](#)) Marine Science for a Blue Economy Conference, Fremantle, WA, Australia.
- **2019** - *Mesophotic Coral Ecosystems of the World: where does Australia stand regarding research and conservation efforts?* (Oral presentation) at the 92nd Australian Coral Reef Society Conference ([ACRS](#)), Moreton Island, Australia.
- **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* (**Invited 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) 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* (**Invited 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.

Students & Postdocs

2023-2025 MSc student Ankita Das.

Title: “Physiology and genetics of shallow vs. mesophotic *Stylophora pistillata* coral”

2024-202x MSc student Almog Haim.

Title: “Deep-sea canyons of Eilat, Red Sea”

2024-202x MSc student Illai Mednik.

Title: “Photophysiology of shallow vs. mesophotic corals in the Red Sea”

2024-202x MSc student Amir Agami.

Title: “Metabolites of shallow vs. mesophotic corals”

2024-202x 6x BSc students at advanced lab course.

Alumni

2023-2024 Postdoctoral research fellow Dr. Bar Feldman.

Title: “Historical ecology of Israeli marine environments”

Skills & Activities

- Skills: Coral Reefs, Mesophotic Coral Ecosystems, Palaeoecology, Historical Ecology, Community Ecology, Quantitative Ecology, Benthic Ecology, Marine Ecology, Coral Physiology, Environmental Processes, Ecological Monitoring, Biodiversity, Invasive Species, Conservation Biology, Taxonomy, Invertebrate Zoology, Photosynthesis, Calcification, Fluorescence, GFP, Spectroscopy, Histology, Coral Reproduction, Deep-Sea Corals, Red Sea, Mediterranean Sea, Great Barrier Reef, Moreton Bay, Photogrammetry, 3D Reconstructions, GIS, R, AgiSoft, ROV, AUV, Scientific and Underwater Photography, Scientific Diving, Technical Diving Instructor, CCR Diving, Full Cave Diving, Aquarium Diving, Commercial Boat Skipper.
- Academic visiting:
 - **2019** (August), **2021-2024** (two weeks quarterly) - Moreton Bay Research Station (MBRS), southeast Queensland, AUSTRALIA.
 - **2022** (July) – Lizard Island Research Station (LIRS), northern GBR, AUSTRALIA.
 - **2020, 2021, 2022, 2024** (summers) - Heron Island Research Station (HIRS), southern GBR, AUSTRALIA.
 - **2019** (December) - Hainan Tropical Ocean University for the 2nd International Coral Reefs Forum, CHINA. Hosted by director Hong Chen of Hainan South China Sea Institute of Tropical Ocean.
 - **2019** (April) - Museum of Tropical Queensland (MTQ), Townsville, AUSTRALIA. Hosted by Dr. Tom Bridge and Prof. Michel Pichon.
 - **2016** (December) - Okinawa Institute of Science and Technology Graduate University (OIST). Hosted by Science Council of Japan, OIST, JCRS and IASH).
 - **2015, 2016** (summers) – Sesoko Station, Tropical Biosphere Research Center, University of the Ryukyus, Okinawa, JAPAN. Hosted by Dr. Saki Harii and Dr. Frederic Sinniger.
 - **2013, 2014** (summers) – Marine Science Station (MSS), The University of Jordan, Aqaba, JORDEN. Hosted by Prof. Fuad Al-Horani.
 - **2013** - James Cook University (JCU) and the Museum of Tropical Queensland (MTQ), Townsville, AUSTRALIA. Hosted by Dr. Carden Wallace and Prof. Michel Pichon.
- Scientific memberships:
 - American Academy of Underwater Sciences ([AAUS](#))
 - The International Coral Reefs Society ([ICRS](#))
 - Australian Coral Reef Society ([ACRS](#))
 - Australian Marine Sciences Association ([AMSA](#))
 - Mideast Coral Reef Society ([MCRS](#))
 - The Israeli Association of Aquatic Sciences ([IAAS](#))
 - The Zoological Society of Israel ([IZS](#); website in Hebrew)
- Editorial activities:
 - Mesophotic.org ([Content editor](#))
 - Diversity journal ([Guest editor](#))
- Journals Referee (many papers in 28 different journals and scientific books):
Diversity and Distributions (Wiley), **Journal of Animal Ecology** (Wiley), **The Depositional Record** (Wiley), **Conservation Biology** (Wiley), **Ecology and Evolution** (Wiley), **Global Change Biology** (Wiley),

Global Ecology and Biogeography (Wiley), *Limnology and Oceanography* (Wiley), *Molecular Reproduction and Development* (Wiley), *Marine Environmental Research* (Elsevier), *Marine Pollution Bulletin* (Elsevier), *Science of the Total Environment* (Elsevier), *Proceedings B* (The Royal Society), *Coral Reefs* (Springer), *Marine Biodiversity* (Springer), *Marine Ecology Progress Series* (Inter-Research), *ICES Journal of Marine Science* (Oxford University Press), *The ISME Journal* (Oxford University Press), *Journal of the Marine Biological Association of the United Kingdom* (Cambridge University Press), *Scientific Reports* (Nature), *PLoS One*, *Frontiers in Marine Science*, *PeerJ*, *Diversity* (MDPI), *Journal of Marine Science and Engineering* (MDPI), *Galaxea Journal of Coral Reef Studies*, and five Chapters in *Marine Animal Forests* and *Coral Reefs of the World* (Springer-Books).