



Maria Vittoria Modica

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Current Position: Senior Researcher (Primo Ricercatore) - Department of Biology and Evolution of Marine Organisms (BEOM) - Stazione Zoologica Anton Dohrn, Via Gregorio Allegrì 1, 00198, Roma (Italy)

Education/Training/Experience

Institute and Location	Degree/ Function	Year	Field of Study
Sapienza University of Roma, Italy	Laurea (Msc)	2004	Biological Sciences
Sapienza University of Roma, Italy	Ph.D.	2008	Animal Biology
Sapienza University of Roma, Italy, Dept. BBCD	Postdoc	2008-2010	Histochemistry and biochemistry in Neogastropoda evolution
Muséum National d'Histoire Naturelle, Paris, France	Visiting curator	2009	Curation of the Malacological Collection
Sapienza University of Roma, Italy, Dept. BBCD	Postdoc	2010-2011	Phylogenetic analysis of large molecular datasets
Muséum National d'Histoire Naturelle, Paris, France	Visiting curator	2009	Curation Malacological Collection
Sapienza University of Roma, Italy, Dept. BBCD	Postdoc	2013-2015	Feeding-related gene expression in non-model invertebrates
Stazione Zoologica Anton Dohrn, Naples, Italy, Dept. EMI	Researcher (short-term position)	2016-2017	Integrative Taxonomy
Université de Montpellier, France	Marie Curie Fellow	2017-2019	Chemical Ecology
Stazione Zoologica Anton Dohrn, Roma, Italy, Dept. BEOM	Researcher	2019-2022	Phylogeny and Evolution of Marine Organisms
Stazione Zoologica Anton Dohrn, Roma, Italy, Dept. BEOM	Senior Researcher	2023-present	Phylogeny and Evolution of Marine Organisms

Appointments and awards

2008: Malacological Society of London Research Award

2017: Abilitazione Scientifica Nazionale a Professore di II Fascia SSD 05/B1 Zoologia e Antropologia

2023: Scientific association to the Muséum National d'Histoire Naturelle, Paris, France

Grant support

2008: SYNTHESYS EU grant FR-TAF-5161 *Molecular Systematics of Cancellariidae*, PI

2016: SYNTHESYS EU grant FR-TAF-6147 *The evolution of Cancellariidae diversity*, PI

2017: Marie Skłodowska-Curie Individual Fellowship no. 748902 *VIPS: Venomics in Predator-prey Systems*, PI

2018: ASSEMBLE Plus grant no. SR02022018103fb *Cryptic speciation and larval ecology shift in marine snails of the genus Rissoa*, PI

2020: EASI-Genomics Grant PID15389 *LEGEND – Legacy genomics: a pipeline for DNA extraction and HTS from museum historical collections*, PI

2020-2024: COST Action CA19144 *European Venom Network – EUVEN*, Chair

2021-2026: AICS RINO project *COREBIOM – Conservation and renovation for biodiversity in Mozambique*, co-PI of SZN unit

2022-2026: PRIN project *SednaPp – Whales as ecosystem sentinels: climate-induced changes on migration and feeding behavior in a pristine habitat model - Pilot project*, PI of SZN Unit

2022-2026: PRIN PNRR project *TRADE – Trophic Adaptations and Plasticity Drivers in Marine Ecosystems*, PI

2025-2029: Biodiversa+ project *Biodiversity2Drugs – Peptide Biodiversity: Advancing Human Health Through Nature’s Pharmacological Treasures*, PI of SZN Unit

Other

Memberships

- Società Italiana di Malacologia, member since 2005
- Unitas Malacologica, member since 2007
- Italian Zoological Union (UZI), member since 2007
- Société Française pour l’étude des Toxins (SFET), member since 2017
- European Society of Evolutionary Biology (ESEB), member since 2018
- Italian Society of Evolutionary Biology (SIBE-ISEB), member since 2017, board member 2019-2024, Arbitrator since 2024

Fieldwork

Participation in 14 oceanographic cruises and shore-based expeditions in the Mediterranean, Indo-West Pacific and Tropical Eastern Pacific.

Teaching

Teaching activities for the courses of Evolutionary Parasitology, Zoology, Comparative Morphology, Marine Biodiversity and Systematic Zoology at University of Roma Tre and Sapienza University of Roma. Lecturer in Curation of Malacological Collections for the course Methods of Conservation and Record of Naturalistic Material, Museo Civico di Zoologia, Roma

Editorial activity

Specialty Editor “Mollusca, Marine Biodiversity, Evolution, Systematics, Adaptations, Trophic ecology” (Zoologischer Anzeiger); Guest editor Research Topic “Diversity and Evolution of Animal Venoms: Neglected Targets, Ecological Interactions, Future Perspectives” (Frontiers in Ecology and Evolution); Research Topic “EVLIMAR 2020” (Frontiers in Marine Science & Frontiers in Ecology and Evolution); Special Issue “Venoms in Europe and beyond (Toxicon X).

Organization of meetings, workshops, courses

Chair of the Organizing Committee of the Italian Congress of Marine Evolution - EVLMAR 2020; member of the organizing committee of EUVEN 2021 – First Congress of the European Venom Network; organizer of the SZN Workshops “Comparative methods in evolutionary biology” (2016), “Molecular phylogenetics” (2017), “Protein Evolution” (2019)

Students’ Supervision

Currently Director of Studies of 1 PhD Open University; previously co-advisor of 1 PhD cofunded SZN-Sapienza University of Rome. Co-tutor of 22 BSc and 10 MSc theses.

Publications

Author of 75 publications in ISI journals (H-index 22) and the chapter “Mollusca” in the textbook *Manuale di Zoologia* (Loriano Ballarin ed, Piccin).

List of publications of the last 10 years

1. Modica M.V. 2015. The first anatomical description of two trigonostomatine Cancellariidae, *Scalptia androyensis* and *Scalptia foveolata*. *The Italian Journal of Zoology*, 82(3): 398-403. <https://doi.org/10.1080/11250003.2015.1021391>
2. Modica M.V., Lombardo F., Franchini P., Oliverio M. 2015. The venomous cocktail of the vampire snail *Colubraria reticulata*. *BMC Genomics*, 16(11): 441. <https://doi.org/10.1186/s12864-015-1648-4>
3. Fassio G., Modica M.V., Alvaro M.C., Schiaparelli S., Oliverio M. 2015. Developmental trade-offs in Southern Ocean mollusk kleptoparasitic species. *Hydrobiologia*, 761: 121-141. <https://doi.org/10.1007/s10750-015-2318-x>
4. Furfaro G., Modica M.V., Oliverio M., Mariottini P. 2016. A DNA-barcoding approach to the phenotypic diversity of Mediterranean species of *Felimare* Ev. Marcus & Er. Marcus, 1967 (Mollusca, Gastropoda), with a preliminary phylogenetic analysis. *The Italian Journal of Zoology*, 2016: 1-13. <https://doi.org/10.1080/11250003.2016.1150525>
5. Modica M.V., Colangelo P., Hallgass A., Barco A., Oliverio M. 2016. Cryptic diversity in a chirally variable land snail. *The Italian Journal of Zoology*, 83:351-363. <https://doi.org/10.1080/11250003.2016.1186234>
6. Casoli E., Ventura D., Modica M.V., Belluscio A., Capello M., Oliverio M., Ardizzone G. 2016. A massive ingression of the alien species *Mytilus edulis* L. (Bivalvia: Mollusca) into the Mediterranean Sea following the Costa Concordia cruise-ship disaster. *Mediterranean Marine Science*, 17: 404-416. <https://doi.org/10.12681/mms.1619>
7. Aissaoui C., Puillandre N., Bouchet P., Modica M.V., Fassio G., Oliverio M. 2016. Cryptic diversity in Mediterranean gastropods of the genus *Aplus*, with the description of a new species (Neogastropoda, Buccinidae). *Scientia Marina*, 80(4): 521-533. <https://doi.org/10.3989/scimar.04422.12A>
8. Furfaro G., Mariottini P., Modica M.V., Trainito E., Doneddu M., Oliverio M. 2017. Sympatric sibling species: the case of *Caloria elegans* and *Facelina quadrefagesi*. *Scientia Marina*, 80: 511-520. <https://doi.org/10.3989/scimar.04479.09A>
9. Russini V., Fassio G., Modica M.V., DeManteion M.J., Oliverio M. 2017. An assessment of the genus *Columbella* Lamarck, 1799 (Gastropoda: Columbellidae) from eastern Atlantic. *Zoosystema* 39(2): 197-212. <https://doi.org/10.5252/z2017n2a2>

10. Modica M.V., Russini V., Fassio G., Oliverio M. 2017. Do larval types affect genetic connectivity at sea? Testing hypothesis in two sibling marine gastropods with contrasting larval development *Marine environmental research*, 127: 92-101. <https://doi.org/10.1016/j.marenvres.2017.04.001>
11. Seifert B, D'Eustacchio D., Kaufmann B., Centorame M., Lorite P., Modica, MV. 2017. Four species within the supercolonial ants of the *Tapinoma nigerrimum* complex revealed by integrative taxonomy (Hymenoptera: Formicidae). *Myrmecological News*, 24: 123-144.
12. Modica M.V., Ponte G. 2017. Salivary glands in predatory mollusks: evolutionary considerations. *Frontiers in Physiology – Invertebrate Physiology*, 8:580. <https://doi.org/10.3389/fphys.2017.00580>
13. Fedosov A, Puillandre N, Herrmann M, Kantor Y, Oliverio M, Dgebuadze P, Modica MV, Bouchet P. 2017. The collapse of *Mitra*: Molecular systematics and morphology of the Mitridae (Gastropoda: Neogastropoda). *The Zoological Journal of the Linnean Society*, 183:253-337. <https://doi.org/10.1093/zoolinnean/zlx073>
14. Modica M.V., Reinoso-Sanchez J., Pasquadibisceglie A., Oliverio M., Mariottini M., Cervelli M. 2018. Anti-haemostatic compounds from the vampire snail *Cumia reticulata*: molecular cloning and in-silico structure-function analysis. *Computational Biology and Chemistry*, 75:168-177. <https://doi.org/10.1016/j.compbiolchem.2018.05.014>
15. Gerdol M., Cervelli M., Oliverio M., Modica M.V. 2018. Piercing fishes: porin expansion and adaptation to hematophagy in the vampire snail *Cumia reticulata*. *Molecular Biology and Evolution*, 35:2654-2668. <https://doi.org/10.1093/molbev/msy156>
16. Gerdol M., Cervelli M., Mariottini P., Oliverio M., Dutertre S., Modica M.V. 2019. A Recurrent Motif: Diversity and Evolution of ShKT Domain Containing Proteins in the Vampire Snail *Cumia reticulata*. *Toxins* 11(2): 106. <https://doi.org/10.3390/toxins11020106>
17. Fassio G., Modica M.V., Alvaro M.C., Buge B., Salvi D., Oliverio M., Schiaparelli S. 2019. An Antarctic flock under the Thorson's rule: diversity and larval development of Antarctic Velutinidae (Mollusca: Gastropoda). *Molecular Phylogenetics and Evolution*, 132:1-13. <https://doi.org/10.1016/j.ympev.2018.11.017>
18. Fassio G., Modica M.V., Mary L., Zaharias P., Fedosov A.E., Gorson J., Kantor Y.I., Holford M., Puillandre N. 2019. Venom diversity and evolution in the most divergent cone snail genus *Profundiconus*. *Toxins*, 11:623. <https://doi.org/10.3390/toxins11110623>
19. Fassio G., Russini V., Pusateri F., Giannuzzi-Savelli R., Holsaeter T., Puillandre N., Modica M.V., Oliverio M. 2019. An assessment of Raphitoma and allied genera (Neogastropoda: Raphitomidae). *Journal of Molluscan Studies*, 85(4): 413-424. <https://doi.org/10.1093/mollus/evz022>
20. Fedosov A.E., Malcolm G., Terryn Y., Gorson J., Modica M.V., Holford M., Puillandre N. 2019. Phylogenetic classification of the family Terebridae. *Journal of Molluscan Studies*, 85(4): 359-388. <https://doi.org/10.1093/mollus/evz004>
21. Modica M.V., Gorson J., Fedosov A.E., Malcolm G., Terryn Y., Puillandre N., Holford M. 2020. Macroevolutionary analyses suggest environmental factors, not venom apparatus, play key role in Terebridae marine snails diversification. *Systematic Biology*, 69(3): 413-430. <https://doi.org/10.1093/sysbio/syz059>
22. Russini V., Giannuzzi-Savelli R., Pusateri F., Prkic J., Fassio G., Modica M.V., Oliverio M. 2020. Candidate cases of poecilogony in Neogastropoda: implications for the systematics of the genus *Raphitoma* Bellardi, 1847. *Invertebrate Systematics*, 34(3): 293-318. <https://doi.org/10.1071/IS19039>
23. Modica M.V., Sunagar K., Holford M., Dutertre S. 2020. Editorial: Diversity and Evolution of Animal Venoms: Neglected Targets, Ecological Interactions, Future Perspectives. *Frontiers in Ecology and Evolution*. <https://doi.org/10.3389/fevo.2020.00065>
24. Fassio G., Russini V., Buge B., Schiaparelli S., Modica M.V., Bouchet P., Oliverio M. 2020. High cryptic diversity in the kleptoparasitic genus *Hyalorisia* Dall, 1889 (Gastropoda, Capulidae) with the description of nine new species from the Indo-West Pacific. *Journal of Molluscan Studies*, 86(4): 401-421. <https://doi.org/10.1093/mollus/evaa028>
25. Fassio G., Bouchet P., Lozouet P., Modica M.V., Russini V., Schiaparelli S., Oliverio M. 2021. Becoming a limpet: an 'intermittent limpetization' process driven by host features in the kleptoparasitic gastropod family Capulidae. *Molecular Phylogenetics and Evolution*, 155:107014. <https://doi.org/10.1016/j.ympev.2020.107014>
26. Modica M.V., Ahmad R., Ainsworth S., Anderluh G., Antunes A., Beis D., Caliskan F., Dalla Serra M., Dutertre S., Moran Y., Nalbantsoy A., Oukkache N., Pekar S., Remm M., von Reumont B.M., Sarigiannis Y., Tarallo A., Tytgat J., Undheim E.A.B., Utkin Y., Verdes A., Violette A., Zancolli G. 2021. The new COST Action European Venom Network (EUVEN) — synergy and future perspectives of modern venomics. *GigaScience*, 10(3), <https://doi.org/10.1093/gigascience/giab019>
27. Santoro M., Palomba M., Modica M.V. 2021. Larvae of *Sulcascaris sulcata* (Nematoda: Anisakidae), a parasite of sea turtles, infect the edible purple dye murex *Bolinus brandaris* in the Tyrrhenian Sea. *Food control* 132: 108547. <https://doi.org/10.1016/j.foodcont.2021.108547>
28. Stefanni S., Mirimin L., Stanković D., Chatzievangelou D., Bongiorno L., Marini S., Modica M.V., Manea E., Bonofiglio F., del Rio Fernandez J., Cukrov N., Gavrilović A., Cabrera De Leo F., Aguzzi J. 2022. Framing cutting-edge integrative

- deep-sea biodiversity monitoring via eDNA and optoacoustic augmented infrastructures. *Frontiers in Marine Science*, 8:797140. <https://doi.org/10.3389/fmars.2021.797140>.
29. von Reumont B.M., Anderluh G., Antunes A., Ayzvazyan N., Beis D., Caliskan F., Crnković A., Damm M., Dutertre S., Ellgaard L., Gajski G., German H., Halassy B., Hempel B.-F., Hucho T., Igci N., Ikononopoulou M.P., Karbat I., Klapa M.I., Koludarov I., Kool J., Lüddecke T., Ben Mansour R., Modica M.V., Moran Y., Nalbantsoy A., Pachón Ibáñez M.E., Panagiotopoulos A., Reuveny E., Sánchez Céspedes J., Sombke A., Surm J.M., Undheim E.A.B, Verdes A., Zancolli G. 2022. Modern venomics – Current insights, novel methods and future perspectives in biological and applied animal venom research. *GigaScience*, 11: giac048, <https://doi.org/10.1093/gigascience/giac048>
 30. Fassio G., Russo P., Bonomolo G., Fedosov A.E., Modica M.V., Nocella E., Oliverio M. 2022. A molecular framework for the systematics of the Mediterranean spindle-shells (Gastropoda, Neogastropoda, Fascioliariidae, Fusiniinae). *Mediterranean Marine Science*, 23(3):623-636. <https://doi.org/10.12681/mms.29935>
 31. Koritnik N., Gerdol M., Šolinc G., Švigelj T., Caserman S., Merzel F., Holden E., Benesch J.L.P., Trenti F., Guella G., Pallavicini A., Modica M.V., Podobnik M., Anderluh G. 2022. Expansion and Neofunctionalization of Actinoporin-like Genes in Mediterranean Mussel (*Mytilus galloprovincialis*). *Genome Biology and Evolution*, 14 (11): evac151, <https://doi.org/10.1093/gbe/evac151>
 32. Chiappa G., Fassio G., Corso A., Crocetta F., Modica M.V., Oliverio M. 2022. How Many Abalone Species Live in the Mediterranean Sea? *Diversity*, 14 (12):1107, <https://doi.org/10.3390/d14121107>
 33. Fassio G., Stefani M., Russini V., Buge B., Bouchet P., Treneman N., Malaquias M.A.E., Schiaparelli S., Modica M.V., Oliverio M. 2023. Neither slugs nor snails: a molecular reappraisal of the gastropod family Velutinidae. *Zoological Journal of the Linnean Society*, 197(4): 924–964, <https://doi.org/10.1093/zoolinnean/zlac091>
 34. Farhat S., Modica M.V. Puillandre N. 2023. Whole genome duplication and gene evolution in the hyperdiverse venomous gastropods. *Molecular Biology and Evolution*, 40 (8): msad171. <https://doi.org/10.1093/molbev/msad171>
 35. Russini V., Fassio G., Nocella E., Houart R, Barco A., Puillandre N., Lozouet P., Modica M.V., Oliverio M. 2023. Whelks, rock-snails, and allied: a new phylogenetic framework for the family Muricidae (Mollusca: Gastropoda). *European Zoological Journal*, 90:2, 856-868. <https://doi.org/10.1080/24750263.2023.2283517>
 36. Modica M.V., Furfaro G., Munari M., Locatello L. 2023. Editorial: EVOLMAR 2020—The first Italian congress on marine evolution. *Frontiers in Ecology and Evolution*, 11:1061314. <https://doi.org/10.3389/fevo.2023.1061314>
 37. Nocella E. Zvonareva S.S., Fassio G., Pica D., Villa R., Modica M.V., Oliverio M. 2024a. Spicy food for the egg-cowries: the evolution of corallivory in the Ovulidae (Gastropoda: Cypraeoidea). *Frontiers in Marine Science* 10:1323156. <https://doi.org/10.3389/fmars.2023.1323156>
 38. Chiappa G., Fassio G., Smriglio C., Mariottini P., Albano P.G., Modica M.V., Zuccon D., Puillandre N., Oliverio M. 2024a. The polymorphic top-shell puzzle: iterative taxonomy of *Calliostoma* Swainson, 1840 (Gastropoda: Calliostomatidae), in the Mediterranean Sea. *Journal of Molluscan Studies* 90(3): eyae026, <https://doi.org/10.1093/mollus/eyae026>
 39. Nocella E., Fassio G., Zuccon D., Puillandre N., Modica M.V., Oliverio M. 2024b. From coral reefs into the abyss: the evolution of corallivory in the Coralliophilinae (Neogastropoda, Muricidae). *Coral Reefs*, 43:1285-1302 <https://doi.org/10.1007/s00338-024-02537-1>
 40. Benvenuti C., Fassio G., Russini V., Modica M.V., Oliverio M., Davolos D., Nocella E., 2024. A Metabarcoding Approach for Investigating the Stomach Microbiota of the Corallivorous Snail *Coralliophila meyendorffii* (Muricidae, Coralliophilinae) and Its Venomous Host, the Sea-Anemone *Parazoanthus axinellae* (Zoanthidea, Parazoanthidae) *Microbiology Research* 15(4):2341-2357. <https://doi.org/10.3390/microbiores15040157>
 41. Domínguez-Pérez D., Agüero-Chapin G., Leone S., Modica M.V. 2024. SeqLengthPlot: An easy-to-use Python-based Tool for Visualizing and Retrieving Sequence Lengths from fasta files with a Tunable Splitting Point. *Bioinformatics Advances* 5(1): vbae183. <https://doi.org/10.1093/bioadv/vbae183>
 42. Zancolli G., Von Reumont B.M., Anderluh G., Caliskan F., Chiusano M.L., Fröhlich J., Hapeshi E., Hempel B.-F., Ikononopoulou M.P., Jungo F, de Farias T.M., Modica M.V., Moran Y., Nalbantsoy A., Prochazka J., Tarallo A., Tonello F., Vitorino R., Zammit M.L. Antunes A., 2024. Web of venom: exploration of big data resources in animal toxin research, *GigaScience* 13:giae054 <https://doi.org/10.1093/gigascience/giae054>
 43. Chiappa G., Fassio G., Modica M.V., Oliverio M. 2024b. Potential Ancestral Conoidean Toxins in the Venom Cocktail of the Carnivorous Snail *Raphitoma purpurea* (Montagu, 1803) (Neogastropoda: Raphitomidae) *Toxins* 16(8), 348; <https://doi.org/10.3390/toxins16080348>
 44. Fedosov A.E., Zaharias P., Lemarcis T., Modica M.V., Holford M., Oliverio M., Kantor Y.I., Puillandre N. 2024. Phylogenomics of Neogastropoda: The Backbone Hidden in the Bush. *Systematic Biology* 73(3): 521-531. <https://doi.org/10.1093/sysbio/syae010>
 45. Ringeval A., Farhat S., Fedosov A., Gerdol M., Greco S., Mary L., Modica M.V., Puillandre N. 2024 DeTox: a pipeline for the detection of toxins in venomous organisms. *Briefings in Bioinformatics* 25(2): bbae094. <https://doi.org/10.1093/bib/bbae094>

46. Castoe T.A., Daly M., Jungo F., Kirchhoff K.N., Koludarov I., Mackessy S., Macrander S., Mehr S., Modica M.V., Sanchez E.E., Zancolli G., Holford M. 2025. A Vision for VenomsBase: An Integrated Knowledgebase for the Study of Venoms and Their Applications. *Integrative Organismal Biology* 7(1): obaf026. <https://doi.org/10.1093/iob/obaf026>
47. Modica M.V., Leone S., Gerdol M., Greco S., Aurelle D., Oliverio M., Fassio G., El Koulali K., Barrachina C., Dutertre S. 2025. The proteotranscriptomic characterization of venom in the white seafan *Eunicella singularis* elucidates the evolution of Octocorallia arsenal. *Open Biology* 15(3) <https://doi.org/10.1098/rsob.250015>
48. Zancolli G., Modica M.V., Puillandre N., Kantor Y., Barua A., Campi G., Robinson-Rechavi M. 2025. Redistribution of Ancestral Functions Underlies the Evolution of Venom Production in Marine Predatory Snails. 2025. *Molecular Biology and Evolution* 42(5): msaf095. <https://doi.org/10.1093/molbev/msaf095>
49. Chiappa G., Fassio G., Modica M.V., Hoarau A., Le Quément M., Puillandre N., Oliverio M. 2025a. Sexual dimorphism and geographic polymorphism in *Raphitoma purpurea* (Neogastropoda: Raphitomidae). *Journal of Molluscan Studies* 91(3): eyaf002. <https://doi.org/10.1093/mollus/eyaf002>
50. Gruber C.F., Beets I., Boudreault P.-L., Da Silva Bolzani V., Carlsson J., Fernandes P.A., Freissmuth M., Gilles N., Goransson U., Hauser A.S., Heinis C., Kool J., Lubell W.D., Modica M.V., Selent J., Tytgat J., Undheim E.A.B. 2025. Biodiversity2Drugs—Renaissance of exploring nature-derived peptides for GPCR ligand discovery. *British Journal of Pharmacology* 182(16): 3691-3694. <https://doi.org/10.1111/bph.70072>
51. Annona G., Tarallo A., Locatello L., De Luca P., Modica M.V. 2025. Morphology of spines and milking practices in venomous fishes. *Discover Animals* 2(1): 53. <https://doi.org/10.1007/s44338-025-00110-w>
52. Albano P.G., Kallmeyer S.K.C., Vetina A.A., Tibiriça Y., De Abreu D.C., Modica M.V. 2025. A unique historical baseline uncovers harvesting impacts on intertidal molluscs at Inhaca Island, southern Mozambique. *ICES Journal of Marine Science*, 82(11): fsaf206 <https://doi.org/10.1093/icesjms/fsaf206>
53. Ikonopoulou M.P., Anderluh G., Coskun S., Merello Luna F., Modica M.V., Prochazka J., Rivera-de-Torre E., Tarallo A., Violette A. 2025. Patentability of natural products from Venomous Organisms: A guide for life science researchers. *Toxicon* 269: 108927 <https://doi.org/10.1016/j.toxicon.2025.108927>
54. Chiappa G., Fassio G., Modica M.V., Puillandre N., Oliverio M. 2025b. What Is the Population Structure of Poecilogonic Species? Evidence From Large-Scale Genotyping in a Neogastropod Lineage (Conoidea: *Raphitoma*). *Molecular Ecology*, 34:e70170 <https://doi.org/10.1111/mec.70170>
55. Nocella E., Fassio G., Lemarcis T., Zaharias P., Tamagnini D., De Leo N., Puillandre N., Modica M.V., Oliverio M. 2026. A phylogenomic and morphometric reassessment of Ovulidae highlights host-related shell shape evolution. *Molecular Phylogenetics and Evolution*, 217: 108545 <https://doi.org/10.1016/j.ympev.2026.108545>
56. Mehr S., Castoe T.A., Daly M., Jungo F., Kirchhoff K.N., Koludarov I., Mackessy S., Macrander S., Naidu P., Modica M.V., Sanchez E.E., Zancolli G., Holford M. 2026. A Proposed Unified, Scalable Platform for Integrative Research on Venomous Species. *Gigascience* gjaf153. <https://doi.org/10.1093/gigascience/gjaf153>
57. Ringeval A., Modica M.V., Kantor Y., Jimenez Tenorio M., Garcia Galindo J.C., Puillandre N., Farhat S. 2026. Multi-omics characterization of toxin expression and producing organs in the predatory gastropods *Monoplex corrugatus* and *Stramonita haemastoma*. *BMC Genomics*. <https://doi.org/10.1186/s12864-026-12592-3>
58. Fedosov A., Lemarcis T., Bouchet P., Harzhauser M., Kantor Y., Kiel S., Modica M.V., Oliverio M., Zaharias P., Puillandre N. 2026. Phylogeny, classification, and evolutionary history of Neogastropoda. *Zoological Journal of the Linnean Society*. <https://doi.org/10.1093/zoolinnean/zlag058>
59. Mariottini P., Aissaoui C., Chiappa G., Di Giulio A., Fassio G., Furfaro G., Modica M. V., Pezzotti S., Puillandre N., Smriglio C., Oliverio M. 2026. Integrative taxonomy of northeastern Atlantic top-shells of the genus *Jujubinus* Monterosato, 1884 (Gastropoda, Trochidae, Cantharidinae). *European Journal of Taxonomy*, 1044(1), 1–96. <https://doi.org/10.5852/ejt.2026.1044.3223>