





DR. MELISSA BEATA MARTIN

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QUALIFICATIONS

- Doctor of Philosophy (Fisheries Study), University of Tasmania
- Bachelor of Science (Marine Biology), Universiti Malaysia Terengganu

FIELD OF RESEARCH

- Systematics (Taxonomy and Phylogeny)
- Marine Parasitology
- Crustacea (Isopoda)
- Marine Symbiotic-Associations (marine invertebrates)

RESEARCH INTEREST

My research interest is studying the taxonomy and phylogeny on parasitic isopods from fishes. Currently that research has broadened towards elucidating the diversity and ecology of other isopods in Malaysian waters. I also enjoy working and teaching the fundamentals of marine parasitology, and a growing interest towards understanding parasites of marine invertebrates. As I have been associated with many natural history museums, I am interested in bridging the knowledge gap between fundamentals of taxonomy and citizen science for better conservation of our biodiversity, with focus on marine organisms.

RESEARCH PROJECTS

- Taxonomy, phylogeny and ecology of Cymothoidae (Crustacea: Isopoda) in Malaysia and SEA
- Parasites of the invasive peacock bass in Terengganu and its implication of native fishes;
- Isopod review and the potential use as indicators for ingested material pollution
- Parasite diversity of commercial fishes from Malaysia
- Symbiotic and non symbiotic associations of marine invertebrates from Malaysia;
- Taxonomic review of critical freshwater fishes from South Africa;
- Importance of taxonomic education in creating citizen science, with emphasis on marine awareness

EXPERT LINKAGES

- South African Institute For Aquatic Biodiversity (SAIAB), SOUTH AFRICA
- Museum Of Tropical Queensland, Townsville; AUSTRALIA
- Australian Museum, Sydney; AUSTRALIA
- University Of Tasmania, AUSTRALIA
- Universitas Airlangga, INDONESIA
- Lee Kong Chian Natural History Museum, SINGAPORE

PROFFESIONAL MEMBERSHIP

- Australian Society for Fish Parasitology
- European Association of Fish Pathologists
- Malaysia Biodiversity Information System (MyBIS)

AWARDS

- Gold Medal_e-Carnival Research & Innovation (National)
- Gold Medal_ Teaching and Learning Innovation Practices (AIPP)
- Bronze Medal_(Research and Innovation Week) [MPI]
- Highest Q1/Q2 Journal Publication Award (Universiti Malaysia Terengganu)
- Excellent Service Award (Universiti Malaysia Terengganu)
- Silver Medal_(Learning Innovation Challenge for Students)
- Australian Museum Geddes Postgraduate Award, Sydney

GRANTS

Project : The Taxonomic Impediment: Creating Awareness Through The Science & Arts of Specimens

Position : **Lead Researcher**

Grant Name : Scholarship of Teaching & Learning (**SoTL**)

Status : Active

Project : EpoXonomy: Curating The Science of Taxonomy Through The Art of Epoxy Resins

Position : **Lead Researcher**

Grant Name : Sustainable Ocean Alliance Microgrant (**SOA**)

Status : Active

Project : Isopod Diversity and Accumulation of Ingested Synthetic Material: Implications of Trophic Transfer In Marine Ecosystem

Position : **Lead Researcher**

Grant Name : Research Intensified Grant Scheme (**RIGS**)

Status : Active

Project : Straits of Malacca Cruise: Biodiversity and functional characteristics of benthos in the Straits of Malacca

Position : **Co-Researcher**

Grant Name : Talent and Publication Enhancement- Research Grants (**TAPE-RG**)

Status : Active

Project : Co-invasive implications of peacock bass parasites towards Malaysian native freshwater fishes using phylogeny and DNA barcoding

Position : **Co-Researcher**

Grant Name : Fundamental Research Grant Scheme (FRGS)

Status : Active

Project : Eco-Youth Marine Awareness Programme

Position : **Lead Researcher**

Grant Name : Knowledge and Technology Assimilation Grant (**KTAG**)

Status : Completed

Project : Marine Debris and its effects on the physiology of marine organisms: Experimental approach through public awareness and education

Position : **Co-Researcher**

Grant Name : Knowledge and Technology Assimilation Grant (**KTAG**)

Status : Completed

PUBLICATIONS

Journal Article

1. Sastraprawiraa S. M, Razak I. H. A., Shahimi S., Pati S., Edinur H. A., John A. B., Ahmad A., Kumaran J. V., **Martin M. B.**, Chong J. L., Chowdhuryh A. J. K., Nelson B. R (2020) A review on introduced *Cichla* spp. and emerging concerns. Heliyon 6 (11): e05370.
2. **Martin, M. B.**, Chakona, A. (2019) Designation of a neotype for *Enteromius pallidus* (Smith, 1841), an endemic cyprinid minnow from the Cape Fold Ecoregion (CFE), South Africa. Zookeys 848: 103-118.
3. Zauki, N.A.M, Satyanarayana, B., Fairuz-Fozi, N., Nelson, B.R., **Martin, M. B.**, Akbar-John, B., Chowdhury, A.J.K. (2019) Citizen science frontiers horseshoe crab population regain at their spawning beach in East Peninsular Malaysia. Journal of Environmental Management 232: 1012-1020.
4. Zauki, N.A.M, Satyanarayana, B., Fairuz-Fozi, N., Nelson, B.R., **Martin, M. B.**, Akbar-John, B., Chowdhury, A.J.K. (2019) Horseshoe crab bio-ecological data from Balok, East Coast Peninsular Malaysia. Data in Brief 22: 458-463.
5. Vigneshwaran, P., Ravichandran, S., **Martin, M. B.** (2018) Redescription of *Ryukyua circularis* (Pillai, 1954)(Isopoda, Cymothoidae), parasite of the Bleeker smoothbelly sardinella *Amblygaster clupeioides* Bleeker, 1849 from India. Zootaxa 4526 (2): 195–206.

6. Vigneshwaran, P., Ravichandran, S., **Martin, M. B.**, Kharthick Rajan, D. (2018) First record of the parasitic isopod (*Mothocya melanosticta* Schiödte and Meinert, 1884) on blue flying fish *Exocoetus volitans* and Indian sardine *Sardinella sindensis* from the southeast coast of India. *Thalassas: An International Journal of Marine Sciences*, 1-9.
7. **Martin, M. B.**, Bruce, N., Nowak, B. (2016) Monograph: Review of the fish-parasitic genus *Cymothoa* Fabricius, 1793 (Crustacea: Isopoda: Cymothoidae) from Australia. *Zootaxa* 4119 (1): 1-72
8. Bruce, N. L., **Martin, M. B.**, Hadfield, K., Nowak, B. (2016) Redescription of the fish parasitic "Tongue Biter" *Cymothoa rhina* Schiödte & Meinert, 1884 (Crustacea: Isopoda: Cymothoidae) from Singapore. *Raffles Bulletin of Zoology* 34: 331-342.
9. **Martin, M. B.**, Bruce, N., Nowak, B. (2015) Review of the buccal-attaching fish parasite *Glossobius* Schiödte & Meinert, 1884 (Crustacea: Isopoda: Cymothoidae). *Zootaxa* 3973 (2): 337–350.
10. **Martin, M. B.**, Bruce, N., Nowak, B. (2015) Review of the fish-parasitic genus *Ceratothoa* Dana, 1852 (Crustacea: Isopoda: Cymothoidae) from Australia, with description of two new species. *Zootaxa*, 3963 (3): 251–294.
11. **Martin, M. B.**, Bruce, N., Nowak, B. (2014) *Smenispa irregularis* (Bleeker, 1857) (Crustacea: Isopoda: Cymothoidae), a buccal-attaching fish parasite from Australia. *Records of the Australian Museum* 66 (4): 233–240.
12. **Martin, M. B.**, Bruce, N., Nowak, B. (2014) Redescription of *Ichthyoxenus puhi* (Bowman, 1962) (Crustacea: Isopoda: Cymothoidae), parasite of moray eel from Mauritius. *Crustaceana*, 87(6): 654–665.
13. Andrews, M., Cobcroft, J. M., Battaglione, S. C., Valdenegro, V., **Martin, M. B.**, Nowak, B. F. (2013) Parasitic crustaceans infecting cultured striped trumpeter *Latris lineata*. *Aquaculture*, 416–417: 280–288.
14. **Martin, M. B.**, Bruce, N., Nowak, B. (2013) Redescription of *Ceratothoa carinata* (Bianconi, 1869) and *Ceratothoa oxyrrhynchaena* Koelbel, 1878 (Crustacea: Isopoda: Cymothoidae), buccal-attaching fish parasites new to Australia. *Zootaxa*, 3683 (4): 395–410.

Indexed Chapter In Book

1. Nowak, B., Martin, M. B., Boltaña. S. (2020) Parasitic Crustaceans. *Fisheries & Aquaculture*, Volume 9. Oxford University Press. 554 pg.

Peer Reviewed Proceedings

1. Baharuddin, N., Martin, M. B., Thilaghavani, N., Borkhanuddin, H. (2017) Checklist of mangrove snails (Mollusca: Gastropoda) in Setiu Wetlands. *Prosiding Seminar Ekspedisi Saintifik Tanah Bencah Setiu 2016: "Menghubungkan Sains Kepada Masyarakat"*. WWF REPORT MALAYSIA 2017. pg 41-52.

Thesis

1. Martin, M. B. (2015) Taxonomy and phylogeny of the buccal-attaching Cymothoidae (Crustacea: Isopoda) of Australia. PhD dissertation, University of Tasmania, 429 p.
2. Martin, M. B. (2010) Endoparasites of stingrays from family Dasyatidae from marine coastal waters of Terengganu, Malaysia. BSc dissertation, Universiti Malaysia Terengganu, 101 p.

Popular Articles

1. Martin, M. B. (2018) Are Isopods on the Naughty or Nice List? Science (<https://australianmuseum.net.au/blogpost/amri-news/are-isopods-on-the-naughty-or-nice-list>)
2. Martin, M. B. (2014) Fish Tongue Biters: more than just one of a kind. Science (<http://australianmuseum.net.au/blogpost/Science/AMRI-Fish-Tongue-Biters-more-than-just-one-of-a-kind>)
3. Martin, M. B. (2013) Ouch! An isopod grabbed my tongue! Explore 35(1): 16-17 (also featured in Science Alert).

SUPERVISION

Master Degree

Thesis Title : Phylogenetics Of Co-Invasive Parasites From Introduced Peacock Bass And Native Fish Species In Terengganu

Student Name : Iqbal Harith Bin Abd Razak

Role : Main Supervisor

Status : On-going

Thesis Title : Elucidating Indigested Material From Crustacean Isopods Gastrointestinal Tracts Using Trophic Transfer Framework

Student Name : Nur Alia Nadhirah Binti Tuah

Role : Main Supervisor

Status : On-going

Thesis Title : Diversity Of Native And Non-Native Fish Species At Tasik Telabak, Besut And The Surrounding Areas

Student Name : Siti Nur Atikah Binti Mohammad

Role : Main Supervisor

Status : On-going

Thesis Title : Morphological And Molecular Characterisation Of Parasitic Myxosporea (Cnidaria: Myxozoa) In Nemipterid Fishes From Terengganu Waters

Student Name : Muhammad 'Arif Bin Samshuri

Role : Co- Supervisor

Status : Graduated 2018

Thesis Title : Phylogeny And Morphology Of Myxozoan Parasities From Setiu Wetlands, Terengganu

Student Name : Nur Fatin Binti Shahar

Role : Co- Supervisor

Status : Graduated 2018

COURSE TAUGHT

- MMB 3314: Biological Classification of Marine Organisms (3 credit hours)
- MMB 3309: Marine Invertebrate Biology (3 credit hours)
- MPU 3312: Appreciation of Environment and Water Heritage (3 credit hours)
- MMB 3302: Planktonology (4 credit hours)
- MMB 3301: Biological Oceanography (4 credit hours)
- MMB 3000: Marine Biology Field Sampling Courses (4 credit hours)
- MMB 4301: Marine Ecology (4 credit hours)
- MMS 3201: Aquatic Methods and Instruments (4 credit hours)
- MMB 4998: Final Year Student Project I (3 credit hours)
- MMB 4999: Final Year Student Project II (5 credit hours)

SPONSORS AND CERTIFICATES

- International Federations of Biosafety Associations_Biological Weapons Convention, **SWITZERLAND**
- Foundational Biodiversity Information Programme, **SOUTH AFRICA**
- UNESCO Sponsorship for the Molecular Taxonomy Training Based On Single DNA Barcoding and Metabarcoding, **INDONESIA**
- Swedish Species Information Centre ArtDatabanken for the travel sponsorship of basic taxonomy, **SWEDEN**
- Researcher Exchange, Training and Travel Award Funding Assistance for Members of the Australian Society for Parasitology , **AUSTRALIA**
- Australian Museum Geddes Postgraduate Award, **AUSTRALIA**
- Australian Society of Parasitology Student Travel Grant, **AUSTRALIA**
- Tasmania Graduate Research Scholarship, **AUSTRALIA**
- Public Service Department, Malaysia (Jabatan Perkhidmatan Awam) scholarship, **MALAYSIA**

LINKS

- SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=55797314300>
- WoS: H-8941-2019
- Researchgate: https://www.researchgate.net/profile/Melissa_Martin5/publications
- ORCID: <http://orcid.org/0000-0003-2605-9898>
- Google Scholar <https://scholar.google.com/citations?user=kGDAi3wAAAAJ&hl=en>
- Publons: <https://publons.com/author/1217352/melissa-martin#profile>