

Dr. Jonathan Wanderley Lawley

CONTACT INFORMATION

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APPOINTMENTS

Griffith University

Research Fellow, Molecular Biology and Bioinformatics 2023
Centre for Planetary Health and Food Security

EDUCATION

Griffith University

Ph.D. 2023

- Thesis: What makes blue jellyfish, blue? Integrating chemistry and genetics to unravel colour variation in jellyfish

Universidade de São Paulo

M.Sc., Zoology 2018

- Dissertation: Delimitation and description of cryptic species: lessons from the systematics of *Aurelia* (Cnidaria, Scyphozoa)

Universidade Federal de Santa Catarina

B.Sc., Biological Sciences (Honours) and Teaching Degree 2016

- Honours: Ecological succession of the benthic sessile community in harbour regions on the coast of Santa Catarina, Brazil
- Exchange programs at the University of Maryland, USA (2011) and Monash University, Australia (2014)

PEER-REVIEWED PUBLICATIONS

Pitt KA, [Lawley JW](#), Hinchliffe C, Matis PA, Olgún-Jacobson C, Arafeh-Dalmau N, Lindholm P, Arnold J, Suthers IM. 2023. Assemblages of pelagic thaliaceans in oceanographic features at the tropical-temperate transition zone of a western boundary current. *Journal of Plankton Research* fbad024: 1-16. doi:[10.1093/plankt/fbad024](https://doi.org/10.1093/plankt/fbad024)

[Lawley JW](#), Gamero-Mora E, Maronna MM, Chiaverano LM, Stampar SN, Hopcroft RR, Collins AG, Morandini AC. 2022. Morphology is not always useful for diagnosis, and that's ok: Species hypotheses should not be bound to a class of data. Reply to Brown and Gibbons. *South African Journal of Science* 118(9/10): 1-3. doi:[10.17159/sajs.2022/14495](https://doi.org/10.17159/sajs.2022/14495)

Page TM, [Lawley JW](#).* 2022. The Next Generation Is Here: A Review of Transcriptomic Approaches in Marine Ecology. *Frontiers in Marine Science* 9:757921. doi:[10.3389/fmars.2022.757921](https://doi.org/10.3389/fmars.2022.757921)

[Lawley JW](#), Carroll AR, McDougall C. 2021. Rhizostomins: A Novel Pigment Family From Rhizostome Jellyfish (Cnidaria, Scyphozoa). *Frontiers in Marine Science* 8:752949. doi:[10.3389/fmars.2021.752949](https://doi.org/10.3389/fmars.2021.752949)

Lawley JW, Gamero-Mora E, Maronna MM, Chiaverano LM, Stampar SN, Hopcroft RR, Collins AG, Morandini AC. 2021. The importance of molecular characters when morphological variability hinders diagnosability: systematics of the moon jellyfish genus *Aurelia* (Cnidaria: Scyphozoa). *PeerJ* 9:e11954. doi:[10.7717/peerj.11954](https://doi.org/10.7717/peerj.11954)

Miglietta MP, Piraino S, Pruski S, Alpizar Gonzalez M, Castellanos-Iglesias S, Jeronimo-Aguilar S, Lawley JW, Maggioni D, Martell L, Matsumoto Y, Moncada A, Nagale P, Phongphattarawat S, Sheridan C, Soto Angel JJ, Sukhoputova A, Collin R. 2018. An integrative identification guide to the Hydrozoa (Cnidaria) of Bocas del Toro, Panama. *Neotropical Biodiversity* 4(1): 102–112. doi:[10.1080/23766808.2018.1488656](https://doi.org/10.1080/23766808.2018.1488656)

Lawley JW, Fonseca AC, Faria Júnior E, Lindner A. 2018. Occurrence of the non-indigenous brittle star *Ophiothela* cf. *mirabilis* Verrill, 1867 (Echinodermata, Ophiuroidea) in natural and anthropogenic habitats off Santa Catarina, Brazil. *Check List* 14(2): 453-459. doi:[10.15560/14.2.453](https://doi.org/10.15560/14.2.453)

Lawley JW, Faria Júnior E. 2018. First record of association between *Tamoya haplonema* (Cnidaria: Cubozoa) and stromateid fish, with a review on interactions between fish and cubozoan jellyfishes. *Plankton and Benthos Research* 13: 32–38. doi:[10.3800/pbr.13.32](https://doi.org/10.3800/pbr.13.32)

Lawley JW, Ames CL, Bentlage B, Yanagihara A, Goodwill R, Kayal E, Hurwitz K, Collins AG. 2016. Box jellyfish *Alatina alata* has a circumtropical distribution. *Biological Bulletin* 231(2):152-169. doi:[10.1086/690095](https://doi.org/10.1086/690095)

Lindner A (ed.), Oliveira AFS, Freire AS, Batista AA, Gregoletto BF, Girardis BW, Faria Júnior E, Longo GO, Lawley JW, Fontoura L, Santos MEA, et al.. 2014. *Vida Marinha de Santa Catarina*. Editora da UFSC 1st ed. 128 p. (2nd ed., 2016). ISBN:[978-85-328-0780-9](https://doi.org/978-85-328-0780-9)

*Equal authorship

WORKING PAPERS

Pigments in jellyfish (Cnidaria, Medusozoa) *with Jamileh Javidpour, Anthony R. Carroll, Carmel McDougall and Kylie A. Pitt*

Wnt-mediated morphogenesis is involved in rhizostomin pigment expression *with Kylie A. Pitt, Anthony R. Carroll and Carmel McDougall*

Population-level whole genome sequencing of *Ascochyta rabiei* identifies genomic loci potentially associated with aggressiveness *with Niloofar Vaghefi (first author) et al.*

CONFERENCE PRESENTATIONS

Australian Bioinformatics and Computational Biology Society	2023
International Plant and Animal Genome Conference	2023
Galaxy Community Conference	2023
Australian Marine Sciences Association	2023, 2022, 2021
Evolution	2021
Biodiversity Genomics	2020
International Conference for Young Marine Researchers	2020

International Jellyfish Bloom Symposium	2023, 2019, 2013
International Cassiopea Workshop	2018
Brazilian Zoology Conference	2018
Brazilian Marine Biology Conference	2013, 2011
Brazilian Genetics Conference	2012
Latin American Marine Sciences Conference	2011

RESEARCH INTERESTS

Omics, molecular biology, bioinformatics, systematics (and taxonomy), developmental biology (and evo-devo), biogeography, macroevolution

RESEARCH FUNDING

- CPHFS Strategic Leverage Fund, \$AUD 10,000 2023
- Developing advanced diagnostic tools for QX disease in oyster aquaculture (lead investigator)
- Moreton Bay Regional Council, \$AUD 12,000 2023
- Improving jellyfish monitoring and identification to enhance beach safety (lead investigator)

AWARDS AND FELLOWSHIPS

- Top-Ten Marine Species (WoRMS) 2021
- 3MT Competition – 3rd Place (Griffith Sciences) 2021
- Young Science Ambassador Award (Wonder of Science) 2020
- Griffith University Postgraduate Research Scholarships 2019
- Research Internship Abroad Fellowship (FAPESP – Brazil) 2017
- Masters Research Fellowship (FAPESP – Brazil) 2016
- Science Without Borders Fellowship (CNPq – Brazil) 2014
- Honours Research Fellowship (CNPq – Brazil) 2013

TEACHING EXPERIENCE

Griffith University

Instructor

- Molecular Biology 2023
- Introduction to Social Science (Environmental Sustainability) 2023

Teaching Assistant

- Introduction to Marine Science 2023, 2022, 2021, 2020
- Ecology 2020
- Zoology 2020
- Biological Systems 2023, 2022, 2021, 2020
- Marine Conservation and Resource Management 2019

Universidade de São Paulo

Instructor

- Summer Course in Zoology 2018, 2017
Systematics and Diversity of Medusozoa, Historical Biogeography, Introduction to Biostatistics, Introduction to Phylogenetic Systematics, Molecular Biology Applied to Zoology

Teaching Assistant

- Principles of Systematics and Biogeography 2017

Universidade Federal de Santa Catarina

Teaching Assistant

- Invertebrate Zoology I 2013
- Biostatistics 2013
- Community Ecology 2012

SUPERVISION	Effects of ultraviolet B radiation on medusae of <i>Cassiopea</i> sp. Tanisha McBratney (Honours) 2023
	Epigenetic factors associated with pathogenicity in the nectotrophic fungus <i>Ascochyta rabiei</i> infecting chickpea 2024 Penelope Morel (Research Summer Scholarship)

TECHNICAL SKILLS	Molecular biology techniques (DNA and RNA extractions, library preparation and sequencing); Bioinformatics and statistical computing (R, Python, Bash, Git and High Performance Computing); GIS (QGIS, ArcGIS and R); Analytical chemistry procedures (protein extraction, purification and sequencing); Field and laboratory experiments (animal collection and husbandry, measurement and monitoring of coastal and oceanographic features)
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CERTIFICATIONS	PADI
	<ul style="list-style-type: none">• Open Water Scuba Instructor 2015• Nitrox Instructor 2015

PROFESSIONAL EXPERIENCE	Universidade Federal de Santa Catarina - MAArE Project
	<ul style="list-style-type: none">• Research Support: Environmental monitoring of benthic exotic and invasive species (2015-2016)

Operation Wallacea

- **Marine Survey Leader:** Engaging high school and university students in seagrass monitoring in the Greek Islands (2016)

SERVICE	Event Organisation
	<ul style="list-style-type: none">• Summer Course in Zoology, Universidade de São Paulo (2017, 2018)• Australian Marine Sciences Association Conference (2023)
	Conference Session Organisation
	<ul style="list-style-type: none">• The next generation is here: genomic approaches in marine science – International Conference for Young Marine Researchers (2020)

Departmental Service

- HDR Student Representative, Griffith University Australian Rivers Institute (2020)
- Committee Member, Australian Marine Sciences Association – South East Queensland Branch (2020-2022)
- Secretary, Australian Marine Sciences Association – South East Queensland Branch (2023)

Reviewer

Thalassas: An International Journal of Marine Sciences, Annals of the Brazilian Academy of Sciences, Zootaxa, Marine Biodiversity, Check List, ZooKeys, Cladistics, Brazilian Journal of Aquatic Science and Technology

Editor

Diversity (Special Issue “Cnidaria: Diversity, Ecology, and Evolution”)

AFFILIATIONS

International Association for Biological Oceanography, Global Invertebrate Genomics Alliance, Australian Marine Sciences Association, Taxonomy Australia

REFERENCES

Rebecca Ford

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Griffith University (Australia)
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Kylie A. Pitt

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