

ROBERT H. COWIE - CURRICULUM VITAE

Name: Robert Hulin Cowie

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Date of Birth: 29 January 1954

Place of birth: U.K.

Degrees: B.A. (Cambridge), M.A. (Cambridge), Ph.D. (Liverpool)

Nationality: British, naturalized U.S. citizen (dual citizenship)

14 August 2023

EDUCATION

B.A. 1972-1975, University of Cambridge (Natural Sciences: Zoology) (Honours) (M.A. taken 1979)

Ph.D. 1976-1982, University of Liverpool (Zoology). Supervisor: Prof. A.J. Cain

Postdoctoral 1982-1985, Dept. of Genetics and Biometry, University College London. Supervisor: Dr. J.S. Jones

PROFESSIONAL APPOINTMENTS

- 2001- Research Professor (Associate 2001-2006, Full 2006-present), Pacific Biosciences Research Center, University of Hawaii
- 2001- Graduate Faculty, Ecology, Evolution and Conservation Biology Graduate Program, University of Hawaii
- 2001- Graduate faculty, Zoology Graduate Program, University of Hawaii
- 2007-2013 Chair, Ecology, Evolution and Conservation Biology Graduate Program, University of Hawaii
- 1990-2001 Research Biologist (Associate 1990-1999, Full 1999-2001), Department of Natural Sciences, Bishop Museum, Honolulu
- 1985-1989 Head, Termite Ecology & Control Section, Overseas Development Natural Resources Institute, UK
- 1982-1985 Postdoctoral researcher, Department of Genetics & Biometry, University College London, UK
- 1975-1982 Research assistant, Department of Zoology, University of Liverpool, UK

AFFILIATE, HONORARY AND OTHER POSITIONS

- 2005- Visiting Professor/Curator, Muséum national d'Histoire naturelle, Paris, France
- 2001- Research Affiliate, Bishop Museum, Honolulu
- 2016 Visiting Foreign Expert, China Jiliang University
- 2006 Foreign Specialist Research Fellow, Forestry and Forest Products Research Institute, Tsukuba, Japan
- 1992-2001 Affiliate Graduate Faculty, Ecology, Evolution and Conservation Biology Graduate Program, University of Hawaii
- 1991-2001 Affiliate Graduate Faculty, Zoology Graduate Program, University of Hawaii
- 1985-1988 Honorary Research Fellow, Department of Genetics & Biometry, University College London, UK

GRANTS AND CONTRACTS (since 1992)

- 2023 National Institutes of Health, Co-I (\$400,125; PI of PBRC component, \$166,851). Antiparasitic agent discovery from natural products for the treatment of a globally emerging disease. Award pending.
- 2023 George F. Straub Trust of the Hawaii Community Foundation, PI (\$60,000). Snail food preferences: breaking the rat lungworm transmission chain in Hawai'i.
- 2020 George F. Straub Trust of the Hawaii Community Foundation, PI (\$50,000). The importance of snail slime in transmission of rat lungworm disease.
- 2019 National Institutes of Health, Co-I (\$145,320; PI of PBRC component, \$40,000). INBRE - COBRE Natural product drug discovery for an emerging parasitic nematode disease.
- 2019 National Science Foundation, Senior personnel (\$1,338,205). Digitization TCN: Collaborative research: enhancing access to taxonomic and biogeographical data to stem the tide of extinction of the highly imperiled Pacific island land snails.
- 2018 National Institutes of Health, Senior personnel (\$40,000; PBRC portion \$20,000). COBRE pilot project. Burden of *Angiostrongylus cantonensis* larvae in juvenile *Parmarion martensi* in Hawai'i.
- 2018 Hawaii Department of Health, PI (\$38,735). Training and education of Department of Health (DOH) staff on the various snails/slugs of public health concern in the state of Hawaii.
- 2018 Hawaii Department of Health, PI (\$2,891). Training and education of Department of Health (DOH) staff on the various snails/slugs of public health concern in the state of Hawaii.
- 2018 U.S. Department of Agriculture, Farm Bill, Collaborator (\$70,000). Invasive terrestrial mollusk survey in Hawaii.
- 2017 National Science Foundation, Key personnel (\$504,873). Revisionary systematics of the highly threatened Achatinellidae: an integrative phylogenetic approach.
- 2016 National Science Foundation, Senior personnel (\$495,633; PI of University of Hawaii portion). Housing, databasing, digitizing and accessibility upgrades to the largest Pacific Island land snail collection (Bishop Museum).
- 2014 US Fish and Wildlife Service, Co-PI (\$106,047, University of Hawaii portion \$71,997). Hawaiian land snails extinction prevention: assessing a vanishing fauna.

- 2014 Japan Society for the Promotion of Science, Postdoctoral Advisor (\$107,600). Clarification of the invading process of freshwater apple snails in the genus *Pomacea*.
- 2013 National Science Foundation, Co-PI (\$25,000). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna. ROA (Research Opportunity Award) Supplement.
- 2013 National Science Foundation, PI (\$6,250). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2012 US Department of Agriculture, Co-PI (\$109,955). Post-harvest management of slugs and snails potentially carrying rat lungworm (*Angiostrongylus cantonensis*) on Hawaii's farms and gardens.
- 2012 National Science Foundation, PI (\$19,815). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. ROA (Research Opportunity Award) Supplement.
- 2012 National Science Foundation, PI (\$7,500). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2012 National Science Foundation, Co-PI (\$7,500). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna. REU (Research Experience for Undergraduates) Supplement.
- 2012 Department of Marine and Wildlife Resources, American Samoa Government, PI (\$4,281). Production of a photographic guide to the land snails of the Samoan Islands.
- 2011 National Science Foundation, Co-PI (\$150,000, University of Hawaii portion \$77,877). Collaborative Research: U.S.-Uruguay-Brazil: IRES AMPLIFIED: Ampullariidae Model using Phylogeography, Laboratory Integration with Field Investigations into Ecology and Diversity.
- 2011 US Army Garrison Oahu, PI (\$49,684). Alien snail control.
- 2011 National Science Foundation, Co-PI (\$650,000). Hawaiian land snail biodiversity: systematics, phylogenetics and conservation status of a vanishing fauna.
- 2011 National Science Foundation, PI (\$7,500). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training. REU (Research Experience for Undergraduates) Supplement.
- 2011 US Department of Agriculture, PI (\$48,000). Understanding and managing health risks associated with the nematode *Angiostrongylus cantonensis* – the rat lungworm.
- 2010 US Army Garrison Oahu. Co-PI (\$58,813). Assessment of the current distribution, potential for continued spread, and population density of *Oxychilus alliarius* on Oahu, Hawaii.
- 2010 National Science Foundation, PI (\$499,999). REVSYS: A revision of New World Ampullariidae: an emerging model system in evolutionary biology and systematics training.
- 2009 US Department of Agriculture, PI (\$64,624). Invasive alien species of terrestrial snails and slugs in Hawaii (year 6).
- 2008 Japan Society for the Promotion of Science, Postdoctoral Advisor (\$100,990). Impacts of alien ants and flatworms on native land snails in the Hawaiian Islands.
- 2008 US Department of Agriculture, PI (\$72,999). Invasive alien species of terrestrial snails and slugs in Hawaii (year 5).
- 2007 US Department of the Interior, PI (\$33,193). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 3).
- 2007 National Science Foundation EPSCoR REAP, Co-PI (\$29,325). Phylogeography of the endemic Hawaiian achatinellid land snails.
- 2007 National Science Foundation, PI (\$11,980). Dissertation research: Ecosystem services provided by terrestrial Mollusca in Hawaiian rainforests.
- 2007 US Department of Agriculture, PI (\$63,778). Invasive alien species of terrestrial snails and slugs in Hawaii (year 4).
- 2006 US Department of the Interior, PI (\$45,892). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 2).
- 2006 US Department of Agriculture, PI (\$54,187). Invasive alien species of terrestrial snails and slugs in Hawaii (year 3).
- 2005 US Department of the Interior, PI (\$27,613). Feeding ecology, microhabitat utilization, population size estimates, and possible control of the introduced predatory snail *Euglandina rosea* on Oahu (year 1).

- 2005 US Department of Agriculture, PI (\$35,000). Invasive alien species of terrestrial snails and slugs in Hawaii (year 2).
- 2004 US Department of Agriculture, PI (\$35,000). Invasive alien species of terrestrial snails and slugs in Hawaii (year 1).
- 2004 US Department of Agriculture, PI (\$22,000). Economic impacts of apple snails on taro culture in Hawaii.
- 2003 National Science Foundation , PI (\$400,086). Revision and phylogeography of Pacific island succineid land snails.
- 2002 US Department of Agriculture, PI (\$118,329). Identity and origins of apple snail pests.
- 2002 State of Hawaii, PI (\$95,580). Development of a Safe Harbor Agreement in conjunction with restoration of Waahila Ridge, Oahu.
- 1999 CH2MHill, Co-PI (\$15,480). Invertebrate survey—Wa‘ahila Ridge powerline installation EIS.
- 1999 Okamoto, Inc., Co-PI (\$45,025). Invertebrate survey—Stainback Highway.
- 1999 New Moon Corporation, PI (\$17,009). Environmental assessment—Bond Historic District, Kohala.
- 1998 US Geological Service, PI (\$18,705). Evaluation of development impacts to endangered snails (American Samoa).
- 1998 Okamoto, Inc., Co-PI (\$92,000). Invertebrate survey—New Hawai‘i Island Correctional Facility EIS.
- 1997 National Science Foundation , PI (\$96,606). Non-marine Mollusca of Samoa.
- 1997 US Geological Service, PI (\$30,768). The land snails of the National Park of American Samoa.
- 1996 National Science Foundation , PI (\$265,829). Rehousing Bishop Museum’s marine shell collection in acid-free conditions.
- 1996 Wil Chee Planning, Co-PI (\$147,541). Impacts of Construction of the Palau Compact Road: survey of the non-marine fauna of the island of Babeldaob.
- 1996 Rust Environment and Infrastructure, Co-PI (\$95,330). Saddle Road Project: assessment of the impacts on invertebrates (land snails, insects, and other arthropods).
- 1995 National Biological Service (now part of USGS), PI (\$42,000). A database of non-indigenous land and freshwater molluscs in Hawaii.
- 1992 National Science Foundation , PI (\$493,445). Rehousing Bishop Museum’s land snail collections.
- 1992 The Nature Conservancy, PI (\$44,975). Land snail survey of the Pohakuloa Training Area, Hawaii.
- Also, prior to 2001, I received numerous small grants and contracts (under \$10,000 each; total c. \$70,000), most in relation to snails as agricultural pests, for surveys of snails in relation to development projects, and for identification and analysis of snail shells from archaeological sites.

AWARDS AND RECOGNITION

- Ph.D. dissertation won the 1982 Annual Award of the Malacological Society of London
- Recognized by the University of Hawaii as a 2003-2004 leading researcher

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Malacological Society, American Society of Tropical Medicine and Hygiene, Malacological Society of Australasia, Malacological Society of London, Pacific Science Association, Society of Island Biology, Unitas Malacologica, Western Society of Malacologists.

Formerly British Ecological Society, Conchological Society of Great Britain and Ireland, Genetical Society, International Society for the Study of Social Insects, Society for the Study of Evolution, Sigma Xi, Systematics Association.

RESEARCH

Statement of research interests

My research focus has shifted somewhat in recent years, as I have become much more involved in research on an emerging parasitic disease vectored primarily by alien species – rat lungworm disease, which is vectored by snails, the organisms I have studied for most of my career. Nonetheless, I continue to be involved in all components of the over-arching broad theme of my previous research, which has been to advance understanding of non-marine biodiversity, both native and alien, primarily in the Pacific. Systematics provides the essential framework for this research and conservation underlies many aspects of the research, which integrates a range of subdisciplines and approaches, including taxonomy, phylogenetics, biogeography, invasion biology, ecology and climate change. Most recently I have focused on extinction of biodiversity both in Hawaii and the Pacific, and globally. The five main focuses are:

- **Emerging disease ecology** – Eosinophilic meningitis in humans caused by *Angiostrongylus cantonensis*, the rat lungworm, specifically aspects involving the snail intermediate hosts. Taxonomy of metastrongyloid nematodes.
- **Extinction and conservation** – The Sixth Mass Extinction, focusing on invertebrates and molluscs in particular. Conservation of Pacific island land snails.
- **Invasion biology** – Spread and impacts, invasion dynamics and origins of alien species, primarily in the Pacific.
- **Biodiversity** – Ecology and evolution of the immense native Pacific island biodiversity. Systematics of Hawaiian land snails.
- **Apple snails** – Systematics, evolution, biogeography, invasion biology and behavioral ecology of this important group of freshwater snails, some introduced species of which have become major pests.

Invited research presentations (regular presentations not listed) since 2000

- World Congress of Malacology (Munich, Germany 2022, Ponta Delgada, Azores 2013, Phuket, Thailand 2010, Vienna, Austria 2001)
- Hawaii Pest Control Association Annual Learning Conference (Kapolei, Hawaii, 2019)
- Molluscs 2018, Malacological Society of Australasia (Wellington, New Zealand, 2018 [keynote presentation])
- Mahosot Hospital (Vientiane, Laos, 2017)
- 48th Anniversary of the Department of Parasitology, Siriraj Hospital International Conference, *Angiostrongylus* and Angiostrongyliasis (Bangkok, Thailand, 2017 [2 presentations])
- International Association for Food Protection (Tampa, Florida, 2017)
- University of Bristol (UK, 2017)
- China Jiliang University (Hangzhou, China, 2016)
- Mollusks in Peril Forum (Sanibel, Florida 2016)
- Nara Women's University (Nara, Japan, 2014)
- University of Oklahoma (Norman, 2013)
- 11th International Congress on Medical and Applied Malacology (Rio de Janeiro, Brasil 2012 [plenary presentation and invited regular presentation])
- Instituto Oswaldo Cruz (Rio de Janeiro, Brasil 2012)
- The Wildlife Society (Waikoloa, Hawaii 2011)
- Direccion Nacional de Recursos Acuaticos (Montevideo, Uruguay 2010)
- AAAS (Hawaii, 2008)
- University of Nottingham (2008)
- Japanese Ecological Society (Niigata, Japan 2006)
- 1 Simpósio Nacional de Coleções Científicas (Rio de Janeiro, Brasil 2005)
- Universidade Federal de Mato Grosso do Sul (Campo Grande, Brasil 2005)
- Sociedade Brasileira de Malacologia (Rio de Janeiro, Brasil 2004)
- American Malacological Society (Ann Arbor, 2003, Sanibel, Florida 2004)
- Malacological Society of Japan (Yamaguchi, Japan 2000)

Invited panelist

- American Society for Tropical Medicine and Hygiene annual meeting (virtual, 2021)
- The 6th International Workshop on *Angiostrongylus* and Angiostrongyliasis (Hilo, 2020)

Invited workshop participation

- US Department of Agriculture, Apple snail workshop (four sessions, virtual, 2023)
- Hawaii Department of Health, Vector Control Branch, Annual Workshop (Honolulu, 2019)
- Preservation of areho [tree snails], Polynesian natural and cultural heritage (Papeete, Tahiti, 2019)
- Third international workshop on rat lungworms (Guangzhou, China, 2013)
- Rat lungworm disease - a scientific workshop (Honolulu, Hawaii, 2011)
- 4th International workshop on the biology of Ampullariidae (San Miguel de Tucumán, Argentina, 2010)
- Forestry and Forest Products Research Institute: Introduced species in Ogasawara (Tsukuba, Japan, 2006)
- Invasive species in the Galápagos: technical advisory group (Galápagos Islands, Ecuador, 2006)
- Asia-Pacific Economic Cooperation: Management of the golden apple snail (Taiwan, 2004)
- US Department of Agriculture: Apple snails and other alien snails (Sacramento, California, 2001)
- National Science Foundation: Biotic Surveys and Inventories (Orcas Island, Washington, 2000)
- Committee for Conservation of Natural Resources of Nagashima: The nature of Nagashima (Japan, 2000)
- Global Invasive Species Program: Invasion pathways (Edgewater, Maryland, 1999)
- World Wildlife Fund: biodiversity and conservation of the Galápagos (Galápagos Islands, Ecuador, 1999)
- International Rice Research Institute: Ecology and management of the golden apple snail (Thailand, 1997)

Expedition and overseas research experience

- 1976 Kenya, Tanzania - termite ecology and distribution (Oxford University)
- 1983, 1984 Spain, Andorra, France - land snail ecology and population genetics
- 1985 France - grasshopper hybrid zone
- 1986, 1987 Ethiopia - termites in crops, forestry and rangeland; training in termite biology/control
- 1986-1989 Sudan - termite ecology and control (University of Khartoum)
- 1987, 1988 Yemen - termites in crops
- 1989 Zimbabwe - termites in crops
- 1989 Malawi - soil pests of crops
- 1992 Samoa [then Western Samoa] - land snail biodiversity
- 1992, 1998, 2001, 2008 American Samoa - land snail biodiversity, research and training, endangered species
- 1995 Cambodia - invasive apple snails as rice pests
- 1996 Palau - land snail biodiversity
- 2004, 2005, 2012 Brasil - apple snail systematics/phylogenetics
- 2008, 2009 UK - land snail population genetics
- 2017 Laos – invasive apple snails as vectors of *Angiostrongylus cantonensis* (rat lungworm)
- 2019 French Polynesia – Pacific island land snail conservation
- 2019 Ogasawara Islands, Japan – land snail conservation

I have also traveled widely in Europe, Turkey, Egypt, India, the Philippines, Japan, Thailand, Taiwan, China, Australia, New Zealand, Argentina, Ecuador, Uruguay, Russia and USA. I have undertaken overseas museum research in France, UK, Australia and Uruguay.

INSTRUCTION/TRAINING

Courses taught

- Zoology field course (University of Liverpool, 1976-82 [every year])
- Environmental Biology field course (University of Liverpool, 1978)
- Population Genetics field course (in Spain) (University College London, 1984, 1985)
- Termite Biology and Control (in Ethiopia) (ODNRI, 1987)
- Advanced Systematics and Evolution (ZOOL 691I) (University of Hawaii, 1995-9 [8 consecutive semesters])
- Biological Invasions (ZOOL 691E) (University of Hawaii, 1996)
- Proposal Writing (ZOOL 691E) (University of Hawaii, 2003, 2006)
- Mechanisms of Evolution (ZOOL 719) (University of Hawaii, 2005)
- Foundations of Ecology (ZOOL 739) (University of Hawaii, 2009, 2017)
- Scientific Skills (ZOOL 691C) (University of Hawaii, 2022 [co-taught])

Guest lectures

- Evolutionary Biology (University College London, 1983)
- Ecological Genetics (University College London, 1984)
- Pest Management (Imperial College London, Silwood Park, 1986)
- Applied Entomology (Imperial College London, Silwood Park, 1987)
- Storage of Durable Agricultural Products in the Tropics (ODNRI, 1988)
- Environmental Studies (University College Cardiff, 1988)
- Biogeography (ZOOL 485) (University of Hawaii, 1996)
- Invasion Biology (BOT 651) (University of Hawaii, 1997, 1999, 2001, 2003, 2005, 2007, 2009)
- Conservation Biology (BOT/ZOOL/NREM 690) (University of Hawaii, 1997, 1999, 2002, 2003, 2012, 2016, 2018)
- Ecology, Evolution and Conservation in Hawaii (ZOOL 750) (University of Hawaii, 1998)
- Focus on Agriculture (Ag 194) (distance learning on public tv; University of Hawaii, Hilo, 1999)
- Natural History of the Hawaiian Islands (BOT/ZOOL 450) (University of Hawaii, 2001-13 [except 2007])
- Foundations in Plant and Environmental Protection Services (PEPS 690) (University of Hawaii, 2002)
- Biocontrol of Invasives (PEPS 422) (University of Hawaii, 2002)
- Invasive Pest Species (PEPS 345) (University of Hawaii, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2020, 2022)
- Environmental Problem Solving (NREM 491) (University of Hawaii, 2005)
- Biology of the Invertebrates (ZOOL 475/475L) (University of Hawaii, 2005, 2006, 2007, 2008, 2017 [2 sections], 2018 [3 sections])
- Interdisciplinary Studies (IS650/651) (University of Hawaii, 2007)
- Grant Writing and Your Career in Science (BOT 698) (University of Hawaii, 2010)

- Foundations of Conservation and Natural Resources (NREM 691) (University of Hawaii, 2010)
- Introduction to Research (HON 495) (University of Hawaii, 2010)
- Infectious Disease Micro I (TRMD 603) (University of Hawaii, 2011)
- Scientific Skills (ZOOL 691C) (University of Hawaii, 2016, 2017 [2 lectures])

Students and postdoctoral researchers

- Undergraduate student (University of Liverpool):
L.R. Noble, 1980-1981
- Undergraduate student (University College London):
D. Johnson, 1984-1985
- Undergraduate students (University of Hawaii):

S. Arnasson, 2007-2008	M. Liebergesell, 2015	C.T. Tran, 2005-2007
J. Bedrosian, 2007-2008	C. Mekonnen, 2014	J. Turner, 2015
C.L. Brown, 2006	D. Ressler, 2011-2014	L. Uemura, 2018-2020 (Honors)
K.L. Coleman, 2011-2012	S. Rind, 2015	K. Van Putten, 2015
D. Dailey, 2014	E. Rivera, 2017	A.J. Villarino, 2019
T. Durkan, 2011-2012	E. Rogers, 2012-2013	B. Wilson, 2012
J.R. Kim, 2008-2009	K. Roque, 2014-2015	M. Wood, 2009
A. Kong, 2011-2013	T.J. Skelton, 2008-2010	C. Yee, 2011-2012
J. Léon, 2012-2014	T. Takebayashi, 2011-2012 (Honors)	E. Yokote, 2013-2014
- Graduate students (ODNRI/University of London):
H.I.J. Black, Ph.D., 1986-1989
J.W.M. Logan, M.Sc., 1985-1989
M.J. Pearce, Ph.D., 1985-1989
- Graduate students (University of Hawaii)
 - D.K. Britton, 1998-2000 (transferred to and gained Ph.D. from the University of Texas at Arlington, US Fish & Wildlife Service)
 - R. Callan, 2002-3 (transferred to and gained Ph.D. from the University of Georgia, Assistant Professor Miami University, Ohio)
 - P.A. Curry, graduated 2012, M.S. Zoology (Leibniz Centre for Tropical Marine Research, Bremen, Germany)
 - J.A. Davies, 2011, Zoology (withdrew from Ph.D. program)
 - D.A. Gary, graduated 2015, M.S. Zoology (US Fish & Wildlife Service)
 - K.A. Hayes, graduated 2009, Ph.D. Zoology (Director, Pacific Center for Molecular Biodiversity, Bishop Museum)
 - A.F. Johnson, 2007-8 (transferred to and gained M.S. fom Washington State University, Research Associate University of Idaho)
 - J.R. Kim, graduated 2013, M.S. Zoology (Research Specialist, Bishop Museum, Honolulu)
 - W.M. Meyer, graduated 2009, Ph.D. Zoology (Associate Professor Pomona College)
 - K.F. Podlacha, 2011-2012, Zoology (withdrew from Ph.D. program)
 - R.A. Riggs, graduated 2016, M.S. Zoology (U.S. Fish & Wildlife Service)
 - R.L. Rollins, graduated 2023, Ph.D. Zoology
 - R.J. Rundell, graduated 2001, M.S. Zoology (Associate Professor SUNY-ESF)
 - R.M. Sommer, graduated 2018, M.S. Zoology
 - G. Walker, 2022-2023, Zoology (withdrew from M.S. program)
- Graduate student committees (University of Hawaii)
 - J. Birch, graduated 2011, Ph.D. Botany
 - D. Cusimano, 2022, Ph.D. Anthropology, expected graduation 2027
 - R. DeFelice, 1998-2003, Zoology (withdrew from Ph.D. program)
 - P.A. deMoura, 2009-2012, Zoology (withdrew from Ph.D. program)
 - L.L.Z. Durand, 2000, Botany (withdrew from Ph.D. program)
 - J.E. Garb, graduated 1998, M.S. Zoology
 - L. Gutierrez, graduated 2000, Ph.D. Zoology
 - L. Hadway, graduated 1998, M.S. Zoology
 - W. Haines, 2004-2006, M.S. Entomology
 - A.T. Handler, graduated 2005, M.S. Zoology
 - A.L. Heddle, graduated 1998, M.S. Zoology
 - S. Joe, graduated 2006, M.S. Botany

- E. Johnston, 2017-2020, Botany (withdrew from Ph.D. program)
- S. Kennedy-Gold, graduated 2019, M.S. Zoology
- T. Koehler, graduated 2007, M.S. Botany
- K. Leung, graduated 2015, M.S. Entomology
- C. Lohr, graduated 2012, Ph.D. Natural Resources and Environmental Management
- M. Lurie, graduated 2015, Ph.D. Botany
- T. Male, graduated 2001, Ph.D. Zoology
- M. Pejhanmehr, graduated 2022, Ph.D. Botany
- G. Roberts, graduated 2001, Ph.D. Zoology
- L. Rodman, graduated 2004, Ph.D. Zoology
- R. Screen, graduated 2022, Ph.D. Zoology
- S. Shaw, 2009-2012, Botany (withdrew from Ph.D. program)
- B.D. Smith, 1996-2000, Zoology (withdrew from Ph.D. program)
- J. Taylor, graduated 2007, M.S. Natural Resources and Environmental Management
- K. Tice, graduated 2009, M.S. Zoology
- L.K. Waiianuhea, expected graduation 2026, Ph.D. Zoology
- A.Y. Yoshinaga, 2008-2015, Botany (withdrew from Ph.D. program)
- Visiting graduate student (Cornell University)
 - L. Lach, graduated 2004, Ph.D.
- Remote graduate student (Royal Veterinary College / London School of Hygiene and Tropical Medicine) (thesis supervisor)
 - H.C. Turck, graduated, 2021, M.Sc. One Health
- Postdoctoral researchers (University of Hawaii)
 - B.S. Holland, 2003-2007
 - S. Sugiura, 2008-2010
 - K.A. Hayes, 2010-2013
 - N.W. Yeung, 2010-2015
 - C. Régnier, 2012
 - K. Matsukura, 2014-2016
 - Q. Yang, 2015

SERVICE

Professional organization activities

- Council, Malacological Society of London: 1983-1986
- Director, Hawaiian Malacological Society: 1992-1995 (President: 1993, 1994)
- Mollusc Specialist Group, International Union for Conservation of Nature: 1994-present
- American Malacological Society Conservation Committee: 1994-2016 (Chair: 1995-2004)
- Council of Systematic Malacologists (Councilor, Western U.S.): 1995-1998
- Council, American Malacological Society: 1997-1999
- Invasive Species Specialist Group, International Union for Conservation of Nature: 1998-present
- President, Sigma Xi, University of Hawaii Chapter: 2005-2008

Editorial activities

- Editor, *Newsletter of the IUCN/SSC Mollusc Specialist Group*: 1994-present
- Associate Editor, *Biodiversity and Conservation*: 2006-2023 (Editorial Board 2003-2023)
- Associate Editor, *Diversity and Distributions*: 2007-2019 (Editorial Board 2003-2019)
- Associate Editor, *Biological Invasions*: 2009-present
- Associate Editor, *Malacologia*: 2016-present (Editorial Board 1991-present)
- Assistant Editor, *Journal of Conchology* and *Conchological Society Special Publications*: 1979-1980
- Advisory Editor, *Aquatic Invasions*: 2019
- Guest Editor, *PLoS Neglected Tropical Diseases*: 2017
- Editorial Board, *Malacological Review*: 1991-2017
- Editorial Board, *Journal of Medical and Applied Malacology*: 1991-2021
- Editorial Board, *Journal of the Malacozoological Association of Yamaguchi, Japan*: 1997-2008
- Editorial Board, *Oryx*: 1998-2016
- Editorial Board, *The Nautilus*: 2001-present
- Editorial Board, *Zoological Science*: 2003-2009

- Editorial Board, *American Malacological Bulletin*: 2003-present
- Editorial Board, *Pacific Science*: 2004-present
- Editorial Board, *Sherbornia*: 2014-present
- Science Advisor, *Hawaiian Shell News*: 1990-1997

Symposium/Conference/Workshop/Forum organization/editing

- Co-convenor, “Foodborne parasites in organic and conventional agricultural practices: food safety issues that can affect your mind”, International Association for Food Protection, Tampa, Florida, 2017
- Scientific Advisory Committee “Mollusks in Peril Forum”, Sanibel, Florida, 2016 (contribution published in *The Nautilus*)
- Co-organized the “Third International Workshop on Rat Lungworms”, Guangzhou, China, 2013
- Organized and edited the proceedings of “Rat lungworm disease: an international workshop”, Honolulu, 2011 (published in the *Hawaii Journal of Medicine and Public Health*)
- Co-edited the Proceedings of the Asia-Pacific Economic Cooperation workshop on the “Management of the golden apple snail”, Taiwan, 2004 (published as a stand-alone proceedings volume)
- Organized and edited the proceedings of a symposium on “Non-marine alien mollusks – the future is a foreign ecosystem”, American Malacological Society, Ann Arbor, 2003 (published in *American Malacological Bulletin*)
- Society for Conservation Biology 2001 meeting (Hilo, Hawaii), Scientific Program Committee
- Organized and edited the proceedings of a symposium on the “Impact of alien species on island ecosystems”, 17th Pacific Science Congress, Honolulu, 1991 (published in *Pacific Science*)
- Co-organized and edited the proceedings of the “1st International Symposium on fungus-growing termites and the tropical environment”, Nairobi, Kenya, 1987 (published in *Sociobiology*)

Advisory panels/groups

- Ogasawara Islands (Japan) land snail conservation advisor: 2019
- State of Hawaii, Governor’s Joint Task Force on Rat Lungworm Disease: 2016-present
- Technical Advisory Group, \$43 million UNDP project on “Invasive species in the Galápagos”: 2003-2007
- NSF grant proposal review panelist: 1996, 1997, 2012, 2013, 2016, 2017, 2019

University of Hawaii

- Ecology, Evolution and Conservation Biology graduate program, admissions committee (1995-7, 2016-17; Chair, 1996-7)
- Ecology, Evolution and Conservation Biology graduate program, curriculum committee (1997-8, 2013-15, 2017-19)
- Ecology, Evolution and Conservation Biology graduate program, grants committee (1998-2006; Chair, 2000-6)
- Ecology, Evolution and Conservation Biology graduate program, webmaster (2012-present)
- Zoology graduate program, Diagnostic Examination Committee (1997, 1999, 2001, 2006)
- Zoology graduate program, ad hoc committee on admissions (2002)
- Zoology graduate program, Graduate Instruction Committee (2011, 2019-21, Chair 2021-23)
- Zoology graduate program, ad hoc graduate program revision committee (2015-18)
- Zoology graduate program, Graduate Admissions Committee (2003, 2004, 2013, 2014, 2017)
- Pacific Biosciences Research Center, Departmental Personnel Committee (2004-present; Chair, 2006-7, 2011-12, 2021-22)
- Pacific Biosciences Research Center, senior faculty/staff team (2009-15)
- Pacific Biosciences Research Center, faculty search committee (2013-14)
- Pacific Biosciences Research Center, director search committees (2014, 2020)
- Pacific Biosciences Research Center, junior faculty mentoring committee chair (Matt Medeiros, 2016-2022)
- Pacific Biosciences Research Center, HR specialist search committee (2021/22)
- Department of Botany, faculty search committee (2008)
- University of Hawaii Hilo / University of Hawaii Manoa NSF EPSCoR grant working group (2002-6)
- Manoa Faculty Senate, Committee on Administration and Budget (2009-2014, vice-chair 2010-11)
- Tenure and Promotion Review Committee (2007, 2011, 2015, 2022)
- School of Life Sciences, faculty search committee (2019-2020)
- School of Ocean and Earth Science and Technology Research Council (2019-present)
- School of Life Sciences, Early Career Research Fellowships search committee (2023)

Extramural grant proposals reviewed (20 agencies)

- American Philosophical Society, Australian Research Council, Austrian Science Fund, British Ecological Society, Environment and Conservation Fund (Hong Kong), Hawaiian Malacological Society, National Geographic

Society, National Research Foundation (South Africa), National Science Foundation, Natural Environment Research Council (UK), Natural Sciences and Engineering Research Council (Canada), Netbiome, Netherlands Organization for Scientific Research, Pennsylvania Department of Conservation and Natural Resources, Research Grants Council (Hong Kong), Rolex Awards for Enterprise, Sea Grant College Program, Smithsonian Institution Office of Fellowships and Grants, U.S. Civilian Research and Development Foundation, U.S. Fish and Wildlife Service

Journal articles reviewed (167 journals, yearly average since 2004 25 reviews out of 36 invitations)

- Acta Ethologica, Acta Oecologica, African Journal of Ecology, African Zoology, American Malacological Bulletin, American Naturalist, Animal Behaviour, Animal Conservation, Annals of Applied Biology, Annals of Botany, Anthropocene, Aquatic Conservation, Aquatic Ecology, Aquatic Invasions, Aquatic Sciences, Archiv für Molluskenkunde, Australian Journal of Experimental Agriculture, Biochemical Genetics, Biocontrol Science and Technology, Biodiversity and Conservation, Biodiversity Data Journal, Bioinvasions Records, Biological Agriculture and Horticulture, Biological Conservation, Biological Invasions, Biological Journal of the Linnean Society, Biology Letters, Biota Neotropica, Biotropica, Bishop Museum Occasional Papers, BMC Evolutionary Biology, BMC Research Notes, Bulletin of Entomological Research, Bulletin of the Museum of Comparative Zoology, CABI Agriculture & Bioscience, Caribbean Journal of Science, Check List, Cladistics, Clinical Infectious Diseases, Conservation Biology, Conservation Genetics, Contributions to Zoology, Crop Protection, Current Biology, Developmental and Comparative Immunology, Diversity and Distributions, East African Agriculture and Forestry Journal, Ecologia Mediterranea, Ecological Entomology, Ecological Indicators, Ecological Research, Ecology and Evolution, Emerging Infectious Diseases, Endangered Species Research, Epidemiology and Infection, Estuaries and Coasts, European Journal of Ecology, Evolution, Experimental Parasitology, Food and Waterborne Parasitology, Freshwater Biology, Geography Compass, Geology, Global Change Biology, Global Ecology and Biogeography, Hawaii Journal of Medicine and Public Health, Heredity, Hydrobiologia, Iberus, Insects, Insect Science and its Application, Integrative & Comparative Biology, International Journal for Parasitology, International Journal of Zoology, Invertebrate Biology, Invertebrate Reproduction and Development, Invertebrate Systematics, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Arid Environments, Journal of Biogeography, Journal of Conchology, Journal of Experimental Biology, Journal of Experimental Zoology, Journal of Helminthology, Journal of Heredity, Journal of the Malacozoological Association of Yamaguchi, Journal of the Marine Biological Association, Journal of Medical and Applied Malacology, Journal of Microbiology, Immunology and Infection, Journal of Molluscan Studies, Journal of Natural History, Journal of the North American Benthological Society, Journal of Parasitology, Journal of Pest Science, Journal of Soil Science, Journal of Thermal Biology, Journal of Tropical Ecology, Journal of Wildlife Diseases, Journal of Zoology, Limnologica, Malacologia, Malacological Review, Management of Biological Invasions, Micronesica, Mitteilungen aus dem Museum für Naturkunde in Berlin (Zoologische Reihe), Molecular Ecology, Molecular Phylogenetics and Evolution, Molluscan Research, Natural Areas Journal, Nature Communications, Nemouria, Neobiota, Oecologia, One Earth, Oryx, Pacific Science, Pakistan Journal of Agricultural Sciences, Palaeogeography–Palaeoclimatology–Palaeoecology, Paleobiology, Paleontological Research, Parasite, Parasites and Vectors, Parasitology Research, Pedobiologia, PeerJ, Pesticide Science, Pest Management Science, PLoS Neglected Tropical Diseases, PLoS One, Population Ecology, Proceedings of the Academy of Natural Sciences of Philadelphia, Proceedings of the Biological Society of Washington, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society of London B, Quaternary Research, Qatar University Science Journal, Revista Científica UDO Agrícola, Ruthenica, Scientific Reports, Sociobiology, Soil Biology and Biochemistry, South Pacific Journal of Natural and Applied Sciences, Subterranean Biology, Symbiosis, Systematics and Biodiversity, The Festivus, The Nautilus, The Veliger, Trends in Ecology and Evolution, Trends in Parasitology, Tropical Pest Management, Tuhinga: Records of the Museum of New Zealand Te Papa Tongarewa, Turkish Journal of Zoology, Waterbirds, Western North American Naturalist, Wetlands, Zookeys, Zoological Journal of the Linnean Society, Zoologia, Zoologia Neocaledonica, Zoologica Scripta, Zoological Science, Zoological Studies, Zoonoses and Public Health, Zoosystema, Zootaxa.

PhD and MSc theses reviewed as external examiner

- University of Tasmania, Australia, PhD (2003)
- University of Adelaide, Australia, PhD (2003)
- University of the West Indies, Mona, Jamaica, PhD (2008)
- University of Nottingham, United Kingdom, PhD (2008, 2009)
- Muséum nationale d'Histoire naturelle, Paris, France, PhD (2011)
- Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brasil, PhD (2015)
- LaTrobe University, Australia, PhD (2015)

- National University of Singapore, PhD (2016)
- Massey University, New Zealand, PhD (2017)
- University of the South Pacific, Suva, Fiji, MSc (2023)

Extramural tenure and promotion reviews

- Bucknell University (2008, 2017)
- Iowa State University (2010)
- University of Hawaii, Hilo (2013)
- Tel Aviv University, Israel (2015)
- University of Oklahoma (2016)
- Hong Kong Baptist University (2016)
- University of Greifswald, Germany (2021)
- University of Florida (2021)

PUBLICATIONS

Google Scholar metrics

Citations – 11,097 (4,394 since 2018), h-index – 53 (36 since 2018), i10-index – 120 (75 since 2018)

Books (5)

- Joshi, R.C., **Cowie, R.H.** & Sebastian, L.S. (eds.) 2017. *Biology and Management of Invasive Apple Snails*. Philippine Rice Research Institute, Muñoz, Nueva Ecija. xvii + 405 p.
- Cowie, R.H.**, Rundell, R.J. & Yeung, N.W. 2017. *Samoan Land Snails and Slugs – An Identification Guide*. Department of Marine and Wildlife Resources, American Samoa Government. viii + 71 p.
- Cowie, R.[H.]** 2014. *Journey to a Waterfall. A Biologist in Africa*. Lulu, Raleigh. x + 279 p.
- Staples, G.W. & **Cowie, R.H.** (eds.) 2001. *Hawai'i's Invasive Species. A Guide to Invasive Plants and Animals in the Hawaiian Islands*. Mutual Publishing & Bishop Museum Press, Honolulu. xii + 116 p.
- Cowie, R.H.**, Evenhuis, N.L. & Christensen, C.C. 1995. *Catalog of the Native Land and Freshwater Molluscs of the Hawaiian Islands*. Backhuys Publishers, Leiden. vi + 248 p.

Journal articles (146)

2023

- Cowie, R.H.**, Malik, R. & Morgan, E.R. 2023. Comparative biology of parasitic nematodes in the genus *Angiostrongylus* and related genera. *Advances in Parasitology* 121: 65-197. [IF 3.125]

2022

- Cowie, R.H.**, Ansdell, V., Panosian Dunavan, C. & Rollins, R.L. 2022. Neuroangiostrongyliasis: global spread of an emerging tropical disease. *American Journal of Tropical Medicine and Hygiene* 107(6): 1166-1172. [IF 3.707]
- Turck, H.C., Fox, M.T. & **Cowie, R.H.** 2022. Paratenic hosts of *Angiostrongylus cantonensis* and their relation to human neuroangiostrongyliasis globally. *One Health* 15: 100426. [IF 8.28]
- Miyahira, I.C., Clavijo, C., Callil, C.T., Cuezco, M.G., Darrigran, G., Gomes, S.R., Lasso, C.A., Mansur, M.C.D., Pena, M.S., Ramírez, R., Santos, R.C.L., Santos, S.B., Scarabino, F., Torres, S.H., Vogler, R.E. & **Cowie, R.H.** 2022. The conservation of non-marine molluscs in South America: where we are and how to move forward. *Biodiversity and Conservation* 31: 2543-2574. [IF 4.30]
- Rollins, R.L., Qader, M., Gosnell, W.L., Wang, C., Cao, S. & **Cowie, R.H.** 2022. A validated high-throughput method for assaying rat lungworm (*Angiostrongylus cantonensis*) motility when challenged with potentially anthelmintic natural products from Hawaiian fungi. *Parasitology* 149: 765-773. [IF 3.24]
- Cowie, R.H.**, Bouchet, P. & Fontaine, B. 2022. The Sixth Mass Extinction: fact, fiction or speculation? *Biological Reviews* 97(2): 640-663. [IF 14.36]

2021

- Cowie, R.H.**, Sajjan, S., Tripathy, B. & Evenhuis, N.L. 2021. *Vaginulus* Férussac, 1822, not *Vaginula* auctt. is the valid name for a genus of slugs (Mollusca, Gastropoda, Systellommatophora, Veronicellidae). *Bulletin of Zoological Nomenclature* 78: 219-225.
- Sajjan, S., Tripathy, B. & **Cowie, R.H.** 2021. *Laevicaulis* Simroth, 1913 (Mollusca, Gastropoda, Systellommatophora, Veronicellidae) is the valid name for a widespread genus of slugs, including the highly invasive *Laevicaulis alte* (Férussac, 1822). *Bulletin of Zoological Nomenclature* 78: 160-164.
- Christensen, C.C., **Cowie, R.H.**, Yeung, N.W. & Hayes, K.A. 2021. Biological control of pest non-marine molluscs: a Pacific perspective on risks to non-target organisms. *Insects* 12: 583. [IF 3.14]

- Gerlach, J., Barker, G.M., Bick, C.S., Bouchet, P., Brodie, G., Christensen, C.C., Collins, T., Coote, T., **Cowie, R.H.**, Fiedler, G.C., Griffiths, O.L., Florens, F.B.V., Hayes, K.A., Kim, J., Meyer, J.-Y., Meyer, W.M., III, Richling, I., Slapcinsky, J.D., Winsor, L. & Yeung, N.W. 2021. Negative impacts of the invasive predators *Euglandina 'rosea'* (Mollusca: Spiraxidae) and *Platydemus manokwari* (Platyhelminthes: Geoplanidae) when used as biological control agents against the pest snail *Lissachatina fulica* (Mollusca: Achatinidae). *Biological Invasions* 23(4): 997-1031. [IF 3.61]
- Rollins, R.L., **Cowie, R.H.**, Echaluse, M.V. & Medeiros, M.C.I. 2021. Host snail species exhibit differential *Angiostrongylus cantonensis* prevalence and infection intensity across an environmental gradient. *Acta Tropica* 216: 105824. [IF 3.22]
- 2020
- Medeiros, M.C.I., Rollins R.L., Echaluse, M.V. & **Cowie, R.H.** 2020. Species identity and size are associated with rat lungworm infection in gastropods. *EcoHealth* 17(2): 183-193. [IF 4.46]
- Joo, S., Jung, S., Lee, S., **Cowie, R.H.** & Takagi, D. 2020. Freshwater snail feeding: lubrication-based particle collection on a free surface. *Journal of the Royal Society Interface* 17: 20200139. [IF 4.29]
- Sommer, R.M. & **Cowie, R.H.** 2020 Invasive characters of veronicellid slugs in the Hawaiian Islands and temperature response suggesting possible range shifts under a changing climate. *Journal of Molluscan Studies* 86: 147-155. [IF 1.63]
- Curry, P.A., Yeung, N.W., Hayes, K.A. & **Cowie, R.H.** 2020. The potential tropical island distribution of a temperate invasive snail, *Oxychilus alliarius*, modeled on its distribution in Hawaii. *Biological Invasions* 22: 307-327. [IF 3.61]
- Tripathy, B. Sajan, S. & **Cowie, R.H.** 2020. Illustrated catalogue of types of Ampullariidae Gray, 1824 (Mollusca, Gastropoda) in the National Zoological Collection of the Zoological Survey of India, with lectotype designations. *Zoosystematics and Evolution* 96(1): 1-23. [IF 1.65]
- 2019
- Cowie, R.H.** 2019. *Eua mauga* Cowie, 2019, new replacement name for *Partula montana* Cooke & Crampton, 1930 (currently *Eua montana*), a junior primary homonym of *Partula montana* Moellendorff, 1900 (Gastropoda: Partulidae). *Bishop Museum Occasional Papers* 131: 1-6.
- Cowie, R.H.**, Rollins, R.L., Medeiros, M.C.I. & Christensen, C.C. 2019. New records of Clausiliidae: *Tauphaedusa tau* (Boettger, 1877) (Gastropoda: Heterobranchia) on O'ahu, Hawaiian Islands, and the first global record of infection of a clausiliid land snail with *Angiostrongylus cantonensis* (Chen, 1935), the rat lungworm. *Bishop Museum Occasional Papers* 126: 11-18.
- Sun, J., Mu, H., Ip, J.C.H., Li, R., Xu, T., Accorsi, A., Alvarado, A.S., Ross, E., Lan, Y., Castro-Vazquez, A., Vega, I.A., Heras, H., Ituarte, S., Van Bocxlaer, B., Hayes, K.A., **Cowie, R.H.**, Zhao, Z., Zhang, Y., Qiana, P.-Y. & Qiu, J.-W. 2019. Signatures of divergence, invasiveness and terrestrialization revealed by four apple snail genomes. *Molecular Biology and Evolution* 36(7):1507-1520. [IF 8.80]
- Cowie, R.H.** 2019. Annotated catalogue of species of *Angiostrongylus* and the related genera *Gallegostrongylus*, *Rodentocaulus* and *Stefanskostrongylus* (Nematoda: Metastrongyloidea, Angiostrongylidae). *Journal of Helminthology* 93(4): 389-423. [IF 1.87]
- Yeung, N.W., Meyer, W.M., III, Hayes, K.A., Kim, J.R., Skelton, T.J. & **Cowie, R.H.** 2019. Non-native gastropods in high elevation horticultural facilities in Hawaii - a threat to native biodiversity. *Biological Invasions* 21: 1557-1566. [IF 3.61]
- Yang, Q., Liu, S., He, C., **Cowie, R.H.**, Yu, X. & Hayes, K.A. 2019. Invisible apple snail invasions: importance of continued vigilance and rigorous taxonomic assessments. *Pest Management Science* 75: 1277-1286. [IF 4.46]
- Riggs, R.A., Taylor, A.D., Thomson, R.C. & **Cowie, R.H.** 2019. Sexual dimorphism and seasonal variability of shield size in the endangered Hawaiian Coot (*Fulica alai*). *Waterbirds* 42(1): 70-77. [IF 0.54]
- Norder, S.J., Proios, K.V., Whittaker, R.J., Alonso, M.R., Borges, P.A.V., Borregaard, M.K., **Cowie, R.H.**, Florens, F.B.V., de Frias Martins, A.M., Ibáñez, M., Kissling, W.D., de Nascimento, L., Otto, R., Parent, C.E., Rigal, F., Warren, B.H., Fernández-Palacios, J.M., van Loon, E.E., Triantis, K.A., & Rijdsdijk, K.F. 2019. Beyond the last glacial maximum: island endemism is best explained by long-lasting archipelago configurations. *Global Ecology and Biogeography* 28(2): 184-197. [IF 6.91]
- Kim, J.R., Wong, T.W., Curry, P.A., Yeung, N.W., Hayes, K.A. & **Cowie, R.H.** 2019. Modelling the distribution in Hawaii of *Angiostrongylus cantonensis* (rat lungworm) in its gastropod hosts. *Parasitology* 146(1): 42-49. [IF 3.24]

2018

Cowie, R.H., Hayes, K.A., Kim, J.R., Bustamente, K.M. & Yeung, N.W. 2018. *Parmarion martensi* Simroth, 1893 (Gastropoda: Ariophantidae), an intermediate host of *Angiostrongylus cantonensis* (rat lungworm), on Maui. *Bishop Museum Occasional Papers* 123: 7-10.

2017

Cowie, R.H., Strong, E.E., Rosenberg, G. & Hayes, K.A. 2017. Types of Ampullariidae (Mollusca: Gastropoda) in the Academy of Natural Sciences of Philadelphia. *Proceedings of the Academy of Natural Sciences of Philadelphia* 165(1): 175-194. [IF 1.00]

Cowie, R.H. 2017. *Angiostrongylus cantonensis*: agent of a sometimes fatal globally emerging infectious disease (rat lungworm disease). *ACS Chemical Neuroscience* 8(10): 2102-2104. [IF 5.78]

Yeung, N.W., **Cowie R.H.**, Hayes, K.A. & Strong, E.E. 2017. Type specimens of Hawaiian land snails in the Smithsonian Institution, National Museum of Natural History, with lectotype designations. *Smithsonian Contributions to Zoology* 647: i-v, 1-34. [IF 2.10]

Cowie, R.H., Régnier, C., Fontaine, B. & Bouchet, P. 2017. Measuring the Sixth Extinction: what do mollusks tell us? *The Nautilus* 131(1): 3-41. [IF 0.74]

2016

Chiba, S. & **Cowie, R.H.** 2016. Evolution and extinction of land snails on oceanic islands. *Annual Review of Ecology, Evolution, and Systematics* 47: 123-141. [IF 14.34]

Cowie, R.H., Héros, V., Yeung, N.W. & Hayes, K.A. 2016. Annotated catalogue of types of Hawaiian land and freshwater snails (Mollusca: Gastropoda) in the Muséum national d'Histoire naturelle, Paris, with lectotype designations. Addendum: lectotype designation for *Lymnaea affinis* Souleyet, 1852. *Zoosystema* 38(3): 389-391. [IF 1.74]

Cowie, R.H., Héros, V., Yeung, N.W. & Hayes, K.A. 2016. Annotated catalogue of types of Hawaiian land and freshwater snails (Mollusca: Gastropoda) in the Muséum national d'Histoire naturelle, Paris, with lectotype designations. *Zoosystema* 38(2): 245-266. [IF 1.74]

Curry, P.A., Yeung, N.W., Hayes, K.A., Meyer, W.M., III, Taylor, A.D. & **Cowie, R.H.** 2016. Rapid range expansion of an invasive predatory snail, *Oxychilus alliarius* (Miller 1822), and its impact on endemic Hawaiian land snails. *Biological Invasions* 18(6): 1769-1780. [IF 3.61]

Kim, J.R., Hayes, K.A., Yeung, N.W. & **Cowie, R.H.** 2016. Identity and distribution of introduced slugs (Veronicellidae) in the Hawaiian and Samoan Islands. *Pacific Science* 70(4): 477-493. [IF 1.10]

Matsukura, K., Hayes, K.A. & **Cowie, R.H.** 2016. Eleven microsatellite loci for two invasive freshwater apple snails, *Pomacea canaliculata* and *P. maculata* (Ampullariidae). *Biological Invasions* 18(12): 3397-3400. [IF 3.61]

Triantis, K.A., Rigal, F., Parent, C.E., Cameron, R.A.D., Lenzner, B., Parmakelis, A., Yeung, N.W., Alonso, M.R., Ibáñez, M., Martins, A.M. de F., Teixeira, D.N.F., Griffiths, O.L., Yanes, Y., Hayes, K.A., Preece, R.C. & **Cowie, R.H.** 2016. Discordance between morphological and taxonomic diversity: land snails of oceanic archipelagos. *Journal of Biogeography* 43(10): 2050-2061. [IF 4.81]

2015

Cowie, R.H. 2015. The recent apple snails of Africa and Asia (Mollusca: Gastropoda: Ampullariidae: *Afropomus*, *Forbesopomus*, *Lanistes*, *Pila*, *Saulea*): a nomenclatural and type catalogue. The apple snails of the Americas: addenda and corrigenda. *Zootaxa* 3940(1): 1-92. [IF 1.09]

Cowie, R.H., Hayes, K.A. & Strong, E.E. 2015. Types of Ampullariidae (Mollusca: Gastropoda) in the U.S. National Museum of Natural History, Smithsonian Institution, with lectotype designations. *Smithsonian Contributions to Zoology* 645: [i-iii], 1-13. [IF 2.50]

Hayes, K.A. . . . [31 others] . . . & **Cowie, R.H.** 2015. Insights from an integrated view of the biology of apple snails (Caenogastropoda: Ampullariidae). *Malacologia* 58(1-2): 245-302. [IF 0.88]

Régnier, C., Achaz, G., Lambert, A., **Cowie, R.H.**, Bouchet, P. & Fontaine, B. 2015. Mass extinction in poorly known taxa. *Proceedings of the National Academy of Sciences* 112(25): 7761-7766. [IF 12.78]

Régnier, C., Bouchet, P., Hayes, K.A., Yeung, N.W., Christensen, C.C., Chung, D.J.D., Fontaine, B. & **Cowie, R.H.** 2015. Extinction in a hyperdiverse endemic Hawaiian land snail family and implications for the underestimation of invertebrate extinction. *Conservation Biology* 29(6): 1715-1723. [IF 7.56]

2014

Kim, J.R., Hayes, K.A., Yeung, N.W. & **Cowie, R.H.** 2014. Diverse gastropod hosts of *Angiostrongylus cantonensis*, the rat lungworm, globally and with a focus on the Hawaiian Islands. *PLoS ONE* 9(5): e94969. [IF 3.75]

2013

Cowie, R.H. 2013. Biology, systematics, life cycle, and distribution of *Angiostrongylus cantonensis*, the cause of rat lungworm disease. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 6-9.

- Cowie, R.H.** 2013. Pathways for transmission of angiostrongyliasis and the risk of disease associated with them. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 70-74.
- Durkan, T.H., Yeung, N.W., Meyer, W.M., III, Hayes, K.A. & **Cowie, R.H.** 2013. Evaluating the efficacy of land snail survey techniques in Hawaii: implications for conservation throughout the Pacific. *Biodiversity and Conservation* 22: 3223-3232. [IF 4.30]
- Hawksworth, D.L. & **Cowie, R.H.** 2013. The discovery of historically extinct, but hitherto undescribed, species: an under-appreciated element in extinction-rate assessments. *Biodiversity and Conservation* 22: 2429-2432. [IF 4.30]
- Meyer, W.M., III, Ostertag, R. & **Cowie, R.H.** 2013. Influence of terrestrial molluscs on litter decomposition and nutrient release in a Hawaiian rain forest. *Biotropica* 45(6): 719-727. [IF 2.86] [editor's choice]
- Yeung, N.W., Hayes, K.A. & **Cowie, R.H.** 2013. Effects of washing produce contaminated with the snail and slug hosts of *Angiostrongylus cantonensis* with three common household solutions. *Hawaii Journal of Medicine and Public Health* 72(6) Supplement 2: 83-86.
- 2012
- Cowie, R.H.** & Héros, V. 2012. Annotated catalogue of the types of Ampullariidae (Mollusca: Gastropoda) in the Muséum national d'Histoire naturelle, Paris, with lectotype designations. *Zoosystema* 34(4): 793-824. [IF 1.74]
- Cowie, R.H.**, Hollyer, J.R., da Silva, A.J., Hollingsworth, R.G., Dixon, M.D., Eamsobhana, P. *et al.* 2012. Workshop on research priorities for management and treatment of angiostrongyliasis. *Emerging Infectious Diseases* 18(12): [Internet]. December 2012. [IF 6.88]
- Hayes, K.A., **Cowie, R.H.**, Thiengo, S.C. & Strong, E.E. 2012. Comparing apples with apples: clarifying the identities of two highly invasive Neotropical Ampullariidae (Caenogastropoda). *Zoological Journal of the Linnean Society* 166: 723-753.[IF 3.83]
- Hayes, K.A., Yeung, N.W., Kim, J.R. & **Cowie, R.H.** 2012. New records of alien Gastropoda in the Hawaiian Islands: 1996-2010. *Bishop Museum Occasional Papers* 112: 21-28.
- 2011
- Cowie, R.H.** 2011. *Cornu* Born, 1778 (Mollusca: Gastropoda: Pulmonata: Helicidae): request for a ruling on the availability of the generic name. *Bulletin of Zoological Nomenclature* 68(2): 97-104.
- Meyer, W.M., III & **Cowie, R.H.** 2011. Distribution, movement, and micro-habitat use of the introduced predatory snail *Euglandina rosea* in Hawaii: implications for management. *Invertebrate Biology* 130(4): 325-333. [IF 1.58]
- Meyer, W.M., III, Ostertag, R. & **Cowie, R.H.** 2011. Macro-invertebrates accelerate litter decomposition and nutrient release in a Hawaiian rainforest. *Soil Biology and Biochemistry* 43: 206-211. [IF 8.55]
- 2010
- Sugiura, S., Holland B.S. & **Cowie, R.H.** 2011. Predatory behaviour of newly-hatched *Euglandina rosea*. *Journal of Molluscan Studies* 77: 101-102. [IF 1.63]
- Meyer, W.M., III & **Cowie, R.H.** 2010. Feeding preference of two introduced predatory snails and their conservation implications. *Malacologia* 53(1): 135-144. [IF 0.88]
- Meyer, W.M., III & **Cowie, R.H.** 2010. Invasive temperate species are a threat to tropical island biodiversity. *Biotropica* 42(6): 732-738. [IF 2.86]
- Wood, K.R. & **Cowie, R.H.** 2010. Land snail records for Mokapu Islet, Moloka'i, Hawaiian Islands. *Bishop Museum Occasional Papers* 108: 53-54.
- 2009
- Cowie, R.H.**, Dillon, R.T., Jr., Robinson, D.G. & Smith, J.W. 2009. Alien non-marine snails and slugs of priority quarantine importance in the United States: a preliminary risk assessment. *American Malacological Bulletin* 27(1/2): 113-132. [IF 0.31]
- Hayes, K.A., **Cowie, R.H.** & Thiengo, S.C. 2009. A global phylogeny of apple snails: Gondwanan origin, generic relationships and the influence of outgroup choice (Caenogastropoda: Ampullariidae). *Biological Journal of the Linnean Society* 98: 61-76. [IF 2.28]
- Hayes, K.A., **Cowie, R.H.**, Jørgensen, A., Schultheiß, R., Albrecht, C. & Thiengo, S.C. 2009. Molluscan models in evolutionary biology: apple snails (Gastropoda: Ampullariidae) as a system for addressing fundamental questions. *American Malacological Bulletin* 27(1/2): 47-58. [IF 0.31] [invited; cover illustration]
- Holland, B.S. & **Cowie, R.H.** 2009. Land snail models in island biogeography: a tale of two snails. *American Malacological Bulletin* 27(1/2): 59-68. [IF 0.31] [invited]

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