

BRIAN L. FISHER

Curator and Chair of Entomology
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EDUCATION

Ph.D. University of California, Davis, 1997 in Entomology
M.S. University of Utah, 1992 in Biology
B.A. University of Iowa, 1988 (Honors) in Biology

RESEARCH

My research focuses on leveraging new technologies and tools to discover, document, and understand the diversity on earth and ensure these results are available and used immediately for conservation action.

I created the annual Ant Course in 2001 (15 courses in 8 countries, 432 students from 53 countries), AntWeb.org in 2002 (world's largest online database on ants), and the Madagascar Biodiversity Center in 2004 (Museum in Antananarivo dedicated to biodiversity, conservation and education).

POSITIONS HELD

University of California, Berkeley, Associate Adjunct Professor, Division of Organisms & Environment in the Department of Environmental Science, Policy & Management 2004–present

San Francisco State University, Department of Biology, Research Professor, 2000–present
Curator of Entomology, California Academy of Sciences, 2000–present

Postdoctoral Fellow, California Academy of Sciences, 1999–2000

National Science Foundation Postdoctoral Fellow, South African Museum, Cape Town, 1997–1999

RESEARCH GRANTS

CEPF: Insects and People of the Southwest Indian Ocean (IPSIO): A Network of Interdisciplinary Researchers Committed to Training, Sharing Tools, and Advocating for an Insect-Focused Approach in Conservation 2016-2019

- GBIF: BID: African Insect Atlas: unleashing the potential of insects in conservation and sustainability research in Africa 2016-2018
- NSF IOS DEB 155796 Collaborative Research: Scents of Self: How Trade-offs Shape Self/Non-self Recognition Cues in a Supercolonial Insect (with lead PI Neil Tsutsui UCB) 2016-2019
- Fulbright Scholar Award, Mozambique 2015-2016
- Autodesk: creating 3D imaging of Ant Genitalia 2014–2015.
- National Geographic. Ants of Mozambique and the Southwest Indian Ocean: assessing diversity and biogeographic linkages across the Mozambique Channel. 2014–2016.
- Edward O. Wilson Charitable Foundation. Ant Course: Fostering the training of the next generation of scientists. Ant Course 2012–2015.
- NSF Systematic Biology DEB 1120867 Collaborative Research: Phylogeography in Madagascar - Using ants to test hypotheses of biotic diversification in a model continent (with lead PI Brice Noonan) 2011–2014.
- Moore Foundation, Integrating semantic markup of taxonomic and systematic biology elements in the PLoS Biodiversity and Systematic Hub 2010.
- Edward O. Wilson Charitable Foundation. Ant Course 2010, Borneo. 2010.
- NSF Biotic Surveys DEB-0842395: Collaborative Research: Ants of the Southwest Indian Ocean and East Africa (ASWEA): assessing phylogenetic diversity and biogeographic linkages across the Mozambique Channel. (with Co-PIs Alex Smith Univ. Guelph, Phil Ward, UCD, and Brice Noonan, Univ. of Mississippi) 2009–2014.
- NSF Emerging Frontiers EF-0849982: Fine-Grained Semantic Markup of Descriptive Data for Knowledge Applications in Biodiversity Domains (with Hong Cui (PI) University of Arizona) 2009–2013.
- NSF DBI-0642321: Catalog of [Ants] 2.0: Improving Services and Preparing for Community. (with PI Stan Blum (CAS) and coPI Richard Pyle (BM) 2008–2013.
- National Geographic. Ants of the southwest Indian Ocean: Species discovery and delimitation in an island radiation. 2008–2010.
- MacArthur Foundation: Technological innovations for conserving biodiversity and planning for climate change in Madagascar: Support for the Réseau de la Biodiversité de Madagascar (REBIOMA) (with Claire Kremen (PI), UCB) 2007–2009.
- NSF Tree of life: Collaborative research on ant phylogeny: a comprehensive evolutionary tree for the world's premier social organisms. (with Phil Ward (PI) Sean Brady, Ted Schultz) 2004–2009.
- National Geographic. Biogeography and conservation of ants in Madagascar. 2004-2006
- NSF Biotic Surveys and Inventories: Madagascar Ant Diversity Initiative (MANDI) (with Co-PI: Phil Ward) 2004–2008.
- McBean Family Foundation, Conservation Training in Madagascar 2002–2003.
- National Science Foundation, Biotic Surveys and Inventories: Terrestrial Arthropod Inventory of Madagascar (with Co-PI C. Griswold) 2000–2003.
- National Science Foundation, Systematics Program, Systematics, phylogeny, and biogeography of Amblyoponini: A putative early lineage of ants (Hymenoptera: Formicidae) (with Co-PI D. Girman) 2000–2003.
- National Science Foundation, International Program: Ant Diversity and Conservation Assessment in South Africa 2000–2003.

National Science Foundation Postdoctoral Fellow Supplement, 1997–1999.
 American Museum of Natural History Collection Study Grant, 1997.
 National Science Foundation Postdoctoral Fellow Award, 1996–1998.
 World Wide Fund For Nature (WWF) Science Grant, 1994–1996, 2000.
 National Science Foundation Dissertation Enhancement, 1994–1996.
 National Geographic Society Grant, 1994–1996.

TEACHING

2009–2015	University of Antananarivo, Ant Course
2006–2015	UCB, ESPM 147-3, Field Entomology
2000–2016	Organizer of the International Ant Course
2003–2007, 2012	Instructor, Tropical Biology Association, Madagascar Conservation Ecology Course One Week

POSTDOCTORAL ASSOCIATES

Brian Heterick, Schlinger Postdoc Fellow 2002–2004, Masashi Yoshimura 2008–2014, Francisco Hita Garcia 2010–2014, Georg Fischer 2011–2014, Sandor Csoz 2014–present

GRADUATE STUDENTS

San Francisco State University

Jayanthi Puniamoorthy, MS current

Frank Azorsa, MS 2014

Kelly Herbinson, MS 2009

Kevin Clarke, MS 2008

Jean Claude Rakotonirina, MS 2006

Corrie Saux, MS 2003

Sonoma State University

Gary Ouellette, MS 2003

University of California, Berkeley

Virginia Emery, Ph. D. 2013 (committee member)

University of California, Davis

Bonnie Blaimer, Ph. D. 2012 (committee member)

Emma Underwood, Ph.D. 2005 (committee member)

Eli Sarnat, Ph. D. 2009 (committee member)

Marek Borowiec, Ph.D. current (committee member)

University of Leeds, England

Alison Cameron, Ph. D. 2005 (committee member)

University of Antananarivo, Madagascar

Nicole Rasoamanana, Ph. D. current

Dimby Raharinjanahary, Ph. D. current

Andrianjaka Ravelomanana, Ph. D. 2015

Jean Claude Rakotonirina, Ph. D. 2014

Universite Pierre et Marie Curie, Paris

Alexandra Sebastien, MS 2012 (committee member)

UNDERGRADUATE STUDENT MENTORING

As part of the CAS REU Summer school for Systematics, I have mentored: 2010: Jordan Hollarsmith; 2011 Michael Bollinger; 2012: Ida Naughton; 2013: Brett Morgan; 2014: Isabella Muratore; Veronica M. Sinotte, 2015

FIELD EXPERIENCE

Extensive research in Borneo, Central America, South America, Africa, Madagascar.

PUBLICATIONS

PEER REVIEWED PUBLICATIONS & MANUSCRIPTS IN PRESS

2016

- 132 Azorsa, F. & Fisher, B. L. 2015. The ant genus *Carebara* Westwood (Hymenoptera: Formicidae) in the Malagasy region. *Zootaxa* (in press)
- 131 Csősz S., Fisher B.L. 2016. Toward objective, morphology-based taxonomy: a case study on the Malagasy *Nesomyrmex sikorai* species group (Hymenoptera: Formicidae). *PLoS One*. 11:e0152454. doi:10.1371/journal.pone.0152454 Published: April 20, 2016.
- 130 Rakotonirina J.C., Csosz S., Fisher B.L. 2016. Revision of the Malagasy *Camponotus edmondi* species group (Hymenoptera, Formicidae, Formicinae): integrating qualitative morphology and multivariate morphometric analysis. *Zookeys*. 572:81–154. doi: 10.3897/zookeys.572.7177 Published 15 March 2016
- 129 Maquart P.O., Réveillon F., Prendini L., Burger M., Fisher B.L., Noort S. Van. 2016. New Distribution Records for African Whip Spiders (Arachnida: Amblypygi). *African Entomology*. 24:245–246. doi: 10.4001/003.024.0245 Published 14 March 2016.
- 128 Peeters C., Fisher B.L. 2016. Gamergates (mated egg-laying workers) and queens both reproduce in *Euponera sikorae* ants from Madagascar. *African Entomology*. 24:180–187. doi: 10.4001/003.024.0180 Published 14 March 2016.
- 127 Csősz S., Fisher B.L. 2016. Taxonomic revision of the Malagasy members of the *Nesomyrmex angulatus* species group using the automated morphological species delineation protocol NC-PART-clustering. *PeerJ*. 4:e1796. DOI 10.7717/peerj.1796 Published 10 March 2016.
- 126 Ward P. S., Blaimer B. B., Fisher B.L. 2016. A revised phylogenetic classification of the ant subfamily Formicinae (Hymenoptera: Formicidae), with resurrection of the genera *Colobopsis* and *Dinomyrmex*. *Zootaxa*. 4072:343–357. doi: 10.11646/zootaxa.4072.3.4 published: 2 Feb. 2016
- 125 Graham N. R., Fisher B. L., Girman D.J. 2016. Phylogeography in Response to Reproductive Strategies and Ecogeographic Isolation in Ant Species on Madagascar: Genus *Mystrium* (Formicidae: Amblyoponinae). *PLoS One*. 11:e0146170. doi: 10.1371/journal.pone.0146170 Published: January 22, 2016

2015

- 124 Blaimer B. B.; Brady S. G.; Schultz T. R.; Lloyd M. W.; Fisher B. L.; Ward P. S. 2015. Phylogenomic methods outperform traditional multi-locus approaches in resolving deep evolutionary history: a case study of formicine ants. *BMC Evolutionary Biology* 15:271. doi:10.1186/s12862-015-0552-5, Published 4 December 2015

- 123 Londe S.; Monnin T.; Cornette R.; Debat V.; Fisher B. L.; Molet M. 2015. Phenotypic plasticity and modularity allow for the production of novel mosaic phenotypes in ants. *Evodevo*. 6:36. doi: 10.1186/s13227-015-0031-5 Published: 1 December 2015
- 122 Csoz S.; Fisher B. 2015. Diagnostic survey of Malagasy *Nesomyrmex* species-groups and revision of *hafahafa* group species via morphology based cluster delimitation protocol. *Zookeys*. 526:19–59. doi: 10.3897/zookeys.526.6037 Published 8 October 2015
- 121 Esteves, F. A.; Fisher, B. L. 2015 A subfamília Amblyoponinae na região Neotropical. In: Delabie, J. H. C. et al. As formigas poneromorfas do Brasil. Ilhéus: Editus. p. 13-22. doi: 10.5281/zenodo.32400 Published 30 September 2015
- 120 Hita Garcia, F. & Fisher, B. (2015) Taxonomy of the hyper-diverse ant genus *Tetramorium* Mayr in the Malagasy region (Hymenoptera, Formicidae, Myrmicinae) – first record of the *T. setigerum* species group and additions to the Malagasy species groups with an updated illustrated identification. *ZooKeys* 512, 121–153. doi: 10.3897/zookeys.512.9860, Published 9 July 2015
- 119 Overson, R., and B. L. Fisher. 2015. Taxonomic revision of the genus *Prionopelta* (Hymenoptera, Formicidae) in the Malagasy region. *ZooKeys* 507:115–150. Published 9 June 2015
- 118 Blaimer, B. B., S. G. Brady, T. R. Schultz, and B. L. Fisher. 2015. Functional and phylogenetic approaches reveal the evolution of diversity in a hyper diverse biota. *Ecography*: 38: 001–012. doi: 10.1111/ecog.01370 Published online: 13 February 2015

2014

- 117 Ward, P.S., Brady, S.G., Fisher, B.L. & Schultz, T.R. (2015). The evolution of myrmicine ants: phylogeny and biogeography of a hyperdiverse ant clade (Hymenoptera: Formicidae). *Systematic Entomology* 40: 61-81 doi: 10.1111/syen.12090 Published online 23 July 2014
- 116 Heinze, J., Schrempf, A., Wanke, T., Rakotondrazafy, H., Rakotondranaivo, T. & Fisher, B.L. (2014). Polygyny, Inbreeding and Wingless Males in the Malagasy Ant *Cardiocondyla shuckardi* Forel (Hymenoptera, Formicidae). *Sociobiology* 61: 300–306. doi: 10.13102/sociobiology.v61i3.300-306 Published 22 Oct 2014
- 115 Sharaf, M. R., Fisher, B.L. & Aldawood, A. S. (2014). Notes on Ants of the genus *Strumigenys* F. Smith, 1860 (Hymenoptera: Formicidae) in the Arabian Peninsula, with a key to species. *Sociobiology* 61: 293–299 doi: 10.13102/sociobiology.v61i3.293-299 Published 22 Oct 2014
- 114 Fischer, G., Azorsa, F. & Fisher, B. L. (2014). The ant genus *Carebara* Westwood (Hymenoptera: Formicidae): synonymisation of *Pheidologeton* Mayr under *Carebara*, establishment and revision of the *C. polita* species group. *ZooKeys* 438: 57–112. doi: 10.3897/zookeys.438.7922 Published 1 Sept 2014
- 113 Helms, J. A. IV, Peeters, C. & Fisher, B. L. (2014). Funnels, gas exchange and cliff jumping: natural history of the cliff dwelling ant *Malagidris sofina*. *Insectes Sociaux* 61:357-365 doi: 10.1007/s00040-014-0360-8 Published 29 July 2014
- 112 Rakotonirina, J. C. & Fisher, B. L. (2014). Revision of the Malagasy ponerine ants of the genus *Leptogenys* Roger (Hymenoptera: Formicidae). *Zootaxa* 3836: 001–163 doi: 10.11646/zootaxa.3836.1.1 Published 15 July 2014
- 111 Polla, J. S. & Fisher, B. L. (2014). Then There Were Five: A Reexamination of the Ant Genus *Paratrechina* (Hymenoptera: Formicidae). *ZooKeys* 422: 35–48 doi: 10.3897/zookeys.422.7779 Published 30 June 2014
- 110 Hölldobler, B., Obermayer M., Plowes, N. J. R. & Fisher, B. L. (2014). New exocrine glands in ants: the hypostomal gland and basitarsal gland in the genus *Melissotarsus* (Hymenoptera: Formicidae). *Naturwissenschaften* 101:527–532 doi: 10.1007/s00114-014-1186-y Published 6 June 2014

- 109 LaPolla, J. S. & Fisher, B. L. (2014). Two new *Paraparatrechina* (Hymenoptera: Formicidae) species from the Seychelles, with notes on the hypogaecic *weissi* species-group. *ZooKeys* 414: 139–155. doi: 10.3897/zookeys.414.7542 Published 6 June 2014
- 108 Hita Garcia, F. & Fisher, B. L. (2014). The hyper-diverse ant genus *Tetramorium* Mayr (Hymenoptera: Formicidae) in the Malagasy region - taxonomic revision of the *T. naganum*, *T. plesiarum*, *T. schaufussii*, and *T. severini* species groups. *ZooKeys* 413: 1–170. doi: 10.3897/zookeys.413.7172 Published 4 June 2014
- 107 Hita Garcia, F. & Fisher, B. L. (2014). Taxonomic revision of the cryptic ant genus *Probolomyrmex* Mayr (Hymenoptera, Formicidae, Proceratiinae) in Madagascar. *Deutsche Entomologische Zeitschrift* 61(1): 65–76. doi: 10.3897/dez.61.7634 Published 30 May 2014
- 106 Hita Garcia, F. & Fisher, B. L. (2014). The ant genus *Tetramorium* Mayr in the Afrotropical region (Hymenoptera, Formicidae, Myrmicinae): synonymisation of *Decamorium* Forel under *Tetramorium*, and taxonomic revision of the *T. decem* species group. *ZooKeys* 411:67–103. doi: 10.3897/zookeys.411.7260 Published 28 May 2014
- 105 Rocha, L.A., Aleixo, A., Allen, G., Almeda, F., Baldwin, C.C., Barclay, M.V.L., Bates, J.M., Bauer, A.M., Benzon, F., Berns, C.M., Berumen, M.L., Blackburn, D.C., Blum, S., Bolaños, F., Bowie, R.C.K., Britz, R., Brown, R.M., Cadena, C.D., Carpenter, K., Ceríaco, L.M., Chakrabarty, P., Chaves, G., Choat, J.H., Clements, K.D., Collette, B.B., Collins, A., Coyne, J., Cracraft, J., Daniel, T., de Carvalho, M.R., de Queiroz, K., Di Dario, F., Drewes, R., Dumbacher, J.P., Engilis, A., Erdmann, M. V, Eschmeyer, W., Feldman, C.R., Fisher, B.L., *et. al.* (2014). Specimen collection: An essential tool. *Science* 344, 814–815. Published 23 May 2014
- 104 Brady, S.G., Fisher, B.L., Schultz, T.R. & Ward, P.S. (2014). The rise of army ants and their relatives: diversification of specialized predatory doryline ants. *BMC Evolutionary Biology* 14: 93. doi:10.1186/1471-2148-14-93 Published 1 May 2014
- 103 Bolton, B. & Fisher, B.L. (2014). The Madagascan endemic myrmicine ants related to *Eutetramorium* (Hymenoptera: Formicidae): taxonomy of the genera *Eutetramorium* Emery, *Malagidris* nom. n., *Myrmisaraka* gen. n., *Royidris* gen. n., and *Vitsika* gen. n. *Zootaxa* 3791: 1–99. Published 24 April 2014
- 102 Yoshimura, M. & Fisher, B.L. (2014). A revision of the ant genus *Mystrium* in the Malagasy region with description of six new species and remarks on *Amblyopone* and *Stigmatomma* (Hymenoptera: Formicidae: Amblyoponinae). *ZooKeys* 394: 1–99. Published 31 March 2014

2013

- 101 Ravelomanana, A., & Fisher, B. L. (2013). Diversity of Ants in Burned and Unburned Grassland, and Dry Deciduous Forest in the Beanka Reserve, Melaky Region, Western Madagascar. *Malagasy Nature* 7: 171–183. Published 29 Dec 2013
- 100 Blaimer, B. B. & Fisher, B. L. (2013). Taxonomy of the *Crematogaster degeeri*-species-assemblage in the Malagasy region (Hymenoptera: Formicidae). *European Journal of Taxonomy*, 51: 1–64 <http://dx.doi.org/10.5852/ejt.2013.51> Published 2 Aug 2013
- 099 Blaimer, B. B. & Fisher, B. L. (2013). How much variation can one ant species hold? Species delimitation in the *Crematogaster kelleri*-group in Madagascar. *PLoS ONE*, 8(7), e68082. doi:10.1371/journal.pone.0068082 Published 9 July 2013
- 098 Rakotonirina, J. C. & Fisher, B. L. (2013). Revision of the *Pachycondyla sikorae* species-group (Hymenoptera: Formicidae) in Madagascar. *Zootaxa*, 3683: 447–485. Published: 5 Jul. 2013
- 097 Fischer, G. & Fisher, B. L. (2013). A revision of *Pheidole* Westwood (Hymenoptera: Formicidae) in the islands *Pheidole megacephala*. *Zootaxa*, 3683(4), 301–356. <http://dx.doi.org/10.11646/zootaxa.3683.4.1> Published 5 July 2013

- 096 Bouchet, D. C., Peeters, C., Fisher, B. L. & Molet, M. (2013). Both female castes contribute to colony emigration in the polygynous ant *Mystrium oberthueri*. *Ecological Entomology*, 38, 408–417 doi:10.1111/een.12033. Published online 21 May 2013
- 095 Hita Garcia, F. & Fisher, B. L. (2013). The *Tetramorium tortuosum* species group (Hymenoptera, Formicidae, Myrmicinae) revisited - taxonomic revision of the Afrotropical *T. capillosum* species complex. *ZooKeys* 299: 77–99. doi: 10.3897/zookeys.299.5063 Published 14 May 2013
- 094 Boudinot, B. E. & Fisher, B. L. (2013). A taxonomic revision of the *Meranoplus* F. Smith of Madagascar (Hymenoptera: Formicidae: Myrmicinae) with keys to species and diagnosis of the males. *Zootaxa*, 3635(4), 301–339. Published 28 March 2013
- 093 Rakotonirina, J. C. & Fisher, B. L. (2013). Revision of the *Pachycondyla wasmannii*-group (Hymenoptera: Formicidae) from the Malagasy region. *Zootaxa* 3609: 101–141. Published 29 Jan 2013

2012

- 092 Hita Garcia, F. & Fisher, B. L. (2012). The ant genus *Tetramorium* Mayr (Hymenoptera: Formicidae) in the Malagasy region—taxonomic revision of the *T. kelleri* and *T. tortuosum* species groups. *Zootaxa*, 3592, 1–85. Published 19 Dec 2012
- 091 Hita Garcia, F. & Fisher, B.L. (2012). The ant genus *Tetramorium* Mayr (Hymenoptera: Formicidae) in the Malagasy region—taxonomy of the *T. bessonii*, *T. bonibony*, *T. dysalum*, *T. marginatum*, *T. tsingy*, and *T. weitzeckeri* species groups *Zootaxa* 3365: 1–123. Published 4 July 2012
- 090 Yoshimura, M. & Fisher, B.L. (2012). A revision of the Malagasy endemic genus *Adetomyrma* (Hymenoptera: Formicidae: Amblyoponinae). *Zootaxa* 3341: 1–31. Published 11 June 2012
- 089 Smith, M. A., Bertrand, C., Crosby, K., Eveleigh, E. S., Fernandez-Triana, J., Fisher, B. L., Gibbs, J., et al. (2012). *Wolbachia* and DNA Barcoding Insects: Patterns, Potential, and Problems. *PLoS ONE*, 7(5), e36514. doi:10.1371/journal.pone.0036514 Published 2 May 2012
- 088 Bolton, B. & Fisher, B.L. (2012). Taxonomy of the cerapachyine ant genera *Simopone* Forel, *Vicinopone* gen. n. and *Tanipone* gen. n. (Hymenoptera: Formicidae). *Zootaxa* 3283: 1–101. Published 30 April 2012
- 087 Yoshimura, M. & Fisher, B. L. (2012). A Revision of Male Ants of the Malagasy Amblyoponinae (Hymenoptera: Formicidae) with Resurrections of the Genera *Stigmatomma* and *Xymmer*. *PLoS ONE*, 7(3), e33325. doi:10.1371/journal.pone.0033325 Published 29 March 2012

2011

- 086 Mindell, D.P., Fisher, B.L., Roopnarine, P., Eisen, J.A., Mace, G.M., Page, R.D.M. & Pyle, R.L. (2011). Aggregating, tagging and integrating biodiversity research. *PLoS ONE* 6(8):e19491. doi:10.1371/journal.pone.0019491 Published 1 Aug 2011
- 085 Lapolla, J. S., Hawkes, P. G. & Fisher, B. L. (2011). Monograph of *Nylanderia* (Hymenoptera : Formicidae) of the World , Part I : *Nylanderia* in the Afrotropics. *Zootaxa*, 3110: 10–36. Published 25 Nov 2011
- 084 Hita Garcia, F. & Fisher, B.L. (2011). The ant genus *Tetramorium* Mayr (Hymenoptera: Formicidae) in the Malagasy region – introduction, definition of species groups, and revision of the *T. bicarinatum*, *T. obesum*, *T. sericeiventre* and *T. tosii* species groups. *Zootaxa* 3039: 1–72. Published 22 Sept 2011
- 083 Bolton, B. & Fisher, B.L. (2011). Taxonomy of Afrotropical and West Palaearctic ants of the ponerine genus *Hypoponera* Santschi (Hymenoptera: Formicidae) *Zootaxa* 2843: 1–118. Published 29 April 2011
- 082 Jenkins, C. N., Sanders, N. J., Andersen, A. N., Arnan, X., Brühl, C. A., Cerda, X., Ellison, A. M., Fisher, B. L., Fitzpatrick, M. C., Gotelli, N. J., Gove, A. D., Guénard, B., Lattke, J. E., Lessard, J. P., McGlynn, T. P., Menke, S. B., Parr, C. L., Philpott, S. M., Vasconcelos, H. L., Weiser, M. D. & Dunn,

R. R. (2011). Global diversity in light of climate change: the case of ants. *Diversity and Distributions* 1–11 doi: 10.1111/j.1472-4642.2011.00770.x Published online 16 May 2011

081 Yoshimura, M. & Fisher, B.L. (2011). A revision of male ants of the Malagasy region (Hymenoptera: Formicidae): Key to genera of the subfamily Dolichoderinae. *Zootaxa* 2794: 1–34. Published 18 March 2011

2010

080 Weiser, M. D., Sanders, N. J., Agosti, D., Andersen, A. N., Ellison, A. M., Fisher, B. L., Gibb, H., Gotelli, N. J., Gove, A. D., Gross, K., Guenard, B., Janda, M., Kaspari, M., Lessard, J. P., Longino, J. T., Majer, J. D. & Menke, S. B. (2010). Canopy and litter ant assemblages share similar climate-species density relationships. *Biology Letters* 2010 6, 769–772 doi: 10.1098/rsbl.2010.0151 Published online 12 May 2010

079 Ward, P.S., Brady, S.G., Fisher, B.L. & Schultz, T.R. (2010). Phylogeny and Biogeography of Dolichoderine Ants: Effects of Data Partitioning and Relict Taxa on Historical Inference. *Systematic Biology* 59: 342–62 doi:10.1093/sysbio/syq012 Published 31 March 2010

078 Lapolla, J.S., Cheng, C.H. & Fisher, B.L. (2010). Taxonomic Revision of the Ant Genus *Paraparatrechina* in the Afrotropical and Malagasy Regions. *Zootaxa*, 2387:1–27. Published 3 March 2010

077 Irwin, M.T., Wright, P. C., Birkinshaw, C., Fisher, B. L., Gardner, C. J., Glos, J., Goodman, S. M., Loiselle, P., Rabeson, P., Raharison, J., Raheirilalao, M. J., Rakotondravony, D., Raselimanana, A., Ratsimbazafy, J., Sparks, J., Wilmé, L., & Ganzhorn, J. U. (2010). Patterns of Species Change in Anthropogenically Disturbed Forests of Madagascar. *Biological Conservation*. 143, 2351–2362 doi:10.1016/j.biocon.2010.01.023 Published Feb 2010

076 Dejean, A., Fisher, B.L., Corbara, B., Rarevohitra, R., Randrianaivo, R., et. al. (2010). Spatial Distribution of Dominant Arboreal Ants in a Malagasy Coastal Rainforest: Gaps and Presence of an Invasive Species. *PLoS ONE* 5(2): e9319. doi:10.1371/journal.pone.0009319 Published 19 Feb 2010

075 Fisher, B. L. (2010). Biogeography. In *Ant Ecology* (eds L. Lach C. Parr & K. Abbot), pp 18–37. Oxford UK: Oxford University Press. Published Jan 2010.

2009

074 Smith, M.A. & Fisher, B.L. (2009). Invasions, DNA barcodes, and rapid biodiversity assessment using ants of Mauritius. *Frontiers in Zoology* 6, 31. doi:10.1186/1742-9994-6-31 Published 10 Dec 2009

073 Molet, M., Fisher, B.L., Ito, F. & Peeters, C. (2009). Shift from independent to dependent colony foundation and evolution of 'multi-purpose' ergatoid queens in *Mystrium* ants (subfamily Amblyoponinae). *Biological Journal of the Linnean Society* 98, 198–207. Published 2 Sept 2009

072 Yoshimura, M. & Fisher, B.L. (2009). A revision of male ants of the Malagasy region (Hymenoptera: Formicidae): Key to genera of the subfamily Proceratiinae. *Zootaxa* 2216, 1–21. Published 31 Aug 2009

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DATABASE/INTERNET CONTRIBUTIONS

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