

# **Rosana Tidon**

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## **EDUCATION**

### **Ph.D., Universidade de São Paulo, 1992**

Concentration: Biological Sciences: Genetics

Dissertation: *Identificação da fauna de Drosophila da Cadeia do Espinhaço e análise morfológica das populações de D. serido* [Drosophilid community composition of the Cadeia do Espinhaço and morphometric analysis of *Drosophila serido* populations]

Dissertation Advisor: Fabio de Melo Sene, Ph.D.

### **M.A., Universidade de São Paulo, 1988**

Concentration: Biological Sciences: Entomology

Thesis: *Distribuição espacial das espécies do gênero Drosophila (Diptera, Drosophilidae) em mata* [Spatial distribution of species of the genus *Drosophila* in forests]

Thesis Advisor: Fabio de Melo Sene, Ph.D.

### **B.A., Biology, Universidade de São Paulo, 1984**

## **TEACHING EXPERIENCE**

### **Full Professor, Universidade de Brasília, 1996-current**

Instituto de Ciências Biológicas

Courses: Evolutionary Biology, Biological invasions

## **RESEARCH EXPERIENCE**

### **Advisoring**

Graduate Program of Ecology, Universidade de Brasília, 1998-current

### **Visiting Scholar**

Harvard University, 2003

### **Visiting Professor**

Göttingen University, 2019

## **PUBLICATIONS** (related to drosophilids)

- Cavalcanti, F. A. G. S., Ribeiro, L. B., Marins, G., Tonelli, G. S. S., Bão, S. N., Yassin, A. and Tidon, R. (2022) 'Geographic Expansion of an Invasive Fly: First Record of *Zaprionus tuberculatus* (Diptera: Drosophilidae) in the Americas', *Annals of the Entomological Society of America*, 115(3), pp. 267–274. doi: 10.1093/aesa/saab052.
- Machida, W. S., Tidon, R. and Klaczko, J. (2022) 'Wing plastic response to temperature variation in two distantly related Neotropical *Drosophila* species (Diptera, Drosophilidae)', *Canadian Journal of Zoology*, 100(2), pp. 82–89. doi: 10.1139/cjz-2021-0099.
- Marques, N. S., Machado, R. B., Aguiar, L. M. S., Mendonça-Galvão, L., Tidon, R., Vieira, E. M., Marini-filho, O. J. and Bustamante, M. (2022) 'Drivers of change in tropical protected areas: Long-term monitoring of a Brazilian biodiversity hotspot', *Perspectives in Ecology and Conservation*, pp. 1–10. doi: 10.1016/j.pecon.2022.02.001.
- Nascimento, L. C., Roque, F. and Tidon, R. (2021) 'Wing symmetry in wild drosophilids ( Insecta , Diptera ) is not affected by season in the Brazilian Cerrado .', *Herigeriana*, 15, pp. 17–26.
- Yuzuki, K. and Tidon, R. (2020) 'Identification key for drosophilid species (Diptera, Drosophilidae) exotic to the Neotropical Region and occurring in Brazil', *Revista Brasileira de Entomologia*, 64(1), pp. 1–9. doi: 10.1590/1806-9665-RBENT-2019-100.
- Valadão, H., Proença, C. E. B., Kuhlmann, M. P., Harris, S. A. and Tidon, R. (2019) 'Fruit-breeding drosophilids (Diptera) in the Neotropics: playing the field and specialising in generalism?', *Ecological Entomology*, 44(6), pp. 721–737. doi: 10.1111/een.12769.
- Batista, M. R. D., Uno, F., Chaves, R. D., Tidon, R., Rosa, C. A. and Klaczko, L. B. (2017) 'Differential attraction of drosophilids to banana baits inoculated with *Saccharomyces cerevisiae* and *Hanseniaspora uvarum* within a Neotropical forest remnant', *PeerJ*, 2017(3), p. e3063. doi: 10.7717/peerj.3063.
- Leão, B., Roque, F., Deus, P. and Tidon, R. (2017) 'What happens when exotic species arrive in a new area? The case of drosophilids in the Brazilian Savanna', *Drosophila Information Service*, 100(December 2013), pp. 65–69.
- Mata, R. A., Tidon, R., de Oliveira, G., Vilela, B., Diniz-Filho, J. A. F., Rangel, T. F. and Terribile, L. C. (2017) 'Stacked species distribution and macroecological models provide incongruent predictions of species richness for Drosophilidae in the Brazilian savanna', *Insect Conservation and Diversity*, 10(5), pp. 415–424. doi: 10.1111/icad.12240.
- Roque, F., Leão, B. F. D. and Tidon, R. (2017) 'Spatio-temporal distribution of the cryptic flies of the *Drosophila willistoni* (Diptera: Drosophilidae) subgroup in a neotropical forest', *Annals of the Entomological Society of America*, 110(4), pp. 398–402. doi: 10.1093/aesa/sax039.
- Roque, F., Matavelli, C., Lopes, P. H. S., Machida, W. S., Von Zuben, C. J. and Tidon, R. (2017) 'Brazilian Fig Plantations Are Dominated by Widely Distributed Drosophilid Species (Diptera: Drosophilidae)', *Annals of the Entomological Society of America*, 110(6), pp. 521–527. doi: 10.1093/aesa/sax044.
- Przybylska, M. S., Brito, F. A. de and Tidon, R. (2016) 'Ecological insights from assessments of phenotypic plasticity in a Neotropical species of *Drosophila*', *Journal of Thermal Biology*. Elsevier, 62(September 2015), pp. 7–14. doi: 10.1016/j.jtherbio.2016.06.026.
- Roque, F., Mencarini, L., Leão, B. F. D., Delgado, M. N. and Tidon, R. (2016) 'Three new records of drosophilids for the Brazilian Savanna', *Drosophila Information Service*, 99, pp. 48–49.

- Tidon, R. and Almeida, J. M. (2016) 'Family Drosophilidae', *Zootaxa*, 4122(1), pp. 719–751. doi: 10.11646/zootaxa.4122.1.63.
- Döge, J. S. D. S., Oliveira, H. V. and Tidon, R. (2015) 'Rapid response to abiotic and biotic factors controls population growth of two invasive drosophilids (Diptera) in the Brazilian savanna', *Biological Invasions*, 17(8), pp. 2461–2474. doi: 10.1007/s10530-015-0889-0.
- Mata, R. A., Valadão, H. and Tidon, R. (2015) 'Dynamic of drosophilids larval assemblages associated to fruits', *Revista Brasileira de Entomologia*, 59, pp. 50–57. Mata, R. A., Valadão, H. and Tidon, R. (2015) 'Spatial and Temporal dynamics of drosophilid larval assemblages associated to fruits', *Revista Brasileira de Entomologia*, 1(59), pp. 50–57.
- Roque, F., Mencarini, L. and Tidon, R. (2015) 'Revised list of drosophilids in the Brazilian Savanna', *Drosophila Information Service*, 98, pp. 70–74. Valadão, H. de O. and Tidon, R. (2015) 'Distribution of drosophilids breeding in *Solanum lycocarpum* (Solanaceae) fruits', *Drosophila Information Service*, 98, pp. 67–70.
- Mata, R. A., Santos, G. A., Uehara-Prado, M. and Tidon, R. (2014) 'Improving sampling protocol for assessing drosophilid diversity: spatial independence and sample size', *Drosophila Information Service*, 97, pp. 161–162.
- Paula, M. A., Lopes, P. H. S. and Tidon, R. (2014) 'First record of *D. suzukii* in the Brazilian savanna', *Drosophila Information Service*, 97, pp. 113–115.
- Przybylska, M. S. S., Roque, F. and Tidon, R. (2014) 'Drosophilid species (Diptera) in the Brazilian savanna are larger in the dry season', *Annals of the Entomological Society of America*, 107(5), pp. 994–999. doi: 10.1603/AN14011.
- Paula, M. A., Brito, F. A. de, Lopes, P. H. S. and Tidon, R. (2013) 'Drosophila collections in the Arc of Deforestation\_ Brazil', *Drosophila Information Service*, 96, pp. 150–153.
- Roque, F. and Tidon, R. (2013) 'Five new records of drosophilids (Diptera) in a riparian forest in the Brazilian Savanna, an endangered neotropical biome', *Annals of the Entomological Society of America*, 106(1), pp. 117–121. doi: 10.1603/AN12097.
- Roque, F., Mata, R. A. and Tidon, R. (2013) 'Temporal and vertical drosophilid (Insecta; Diptera) assemblage fluctuations in a neotropical gallery forest', *Biodiversity and Conservation*, 22(3), pp. 657–672. doi: 10.1007/s10531-013-0433-4.
- Emerich, P. P. P., Valadão, H., Silva, J. R. V. P. and Tidon, R. (2012) 'High Abundance of Neotropical Drosophilids (Diptera: Drosophilidae) in Four Cultivated Areas of Central Brazil', *Neotropical Entomology*, 41(2), pp. 83–88. doi: 10.1007/s13744-011-0004-x.
- Mata, R. A., McGeoch, M. and Tidon, R. (2010) 'Drosophilids (Insecta, Diptera) as tools for conservation biology', *Natureza e Conservacao*, 8(1), pp. 60–65. doi: 10.4322/natcon.00801009.
- Mata, R. A., Tidon, R., Côrtes, L. G., de Marco, P. and Diniz-Filho, J. A. F. (2010) 'Invasive and flexible: Niche shift in the drosophilid *Zaprionus indianus* (Insecta, Diptera)', *Biological Invasions*, 12(5), pp. 1231–1241. doi: 10.1007/s10530-009-9542-0.
- Valadão, H., Hay, J. D. V. and Tidon, R. (2010) 'Temporal dynamics and resource availability for drosophilid fruit flies (insecta, diptera) in a gallery forest in the Brazilian savanna', *International Journal of Ecology*, 2010, p. Article ID 152437, 7. doi: 10.1155/2010/152437.
- Roque, F., Hay, J. D. V. and Tidon, R. (2009) 'Breeding sites of drosophilids (Diptera) in the Brazilian Savanna. I. Fallen fruits of *Emmotum nitens* (Icacinaeae), *Hancornia speciosa*

- (Apocynaceae) and *Anacardium humile* (Anacardiaceae)', *Revista Brasileira de Entomologia*, 53(2), pp. 308–313. doi: 10.1590/s0085-56262009000200016.
- Mata, R. A., McGeoch, M. and Tidon, R. (2008) 'Drosophilid assemblages as a bioindicator system of human disturbance in the Brazilian Savanna', *Biodiversity and Conservation*, 17(12), pp. 2899–2916. doi: 10.1007/s10531-008-9403-7.
- Mata, R. A., Roque, F. and Tidon, R. (2008) 'Drosophilids (Insecta, Diptera) of the Paranã Valley: Eight new records for the Cerrado biome', *Biota Neotropica*, 8(1), pp. 55–60. doi: 10.1590/S1676-06032008000100006.
- Polejack, A. and Tidon, R. (2007) 'Learning of courtship components in *Drosophila mercatorum* (Paterson & Wheller) (Diptera, Drosophilidae)', *Revista Brasileira de Entomologia*, 51(1), pp. 82–86. doi: 10.1590/S0085-56262007000100014.
- Ferreira, L. B. and Tidon, R. (2005) 'Colonizing potential of Drosophilidae (Insecta, Diptera) in environments with different grades of urbanization', *Biodiversity and Conservation*, 14(8), pp. 1809–1821. doi: 10.1007/s10531-004-0701-4.
- Leão, B. F. D. and Tidon, R. (2004) 'Newly invading species exploiting native host-plants: the case of *Zaprionus indianus* in the Brazilian Cerrado', *Annales de la Societe Entomologique de France*, 40(3–4), pp. 285–290.
- Tidon, R., Leite, D. F. and Leão, B. F. D. (2003) 'Impact of the colonisation of *Zaprionus* (Diptera, Drosophilidae) in different ecosystems of the neotropical region: 2 Years after the invasion', *Biological Conservation*, 112(3), pp. 299–305. doi: 10.1016/S0006-3207(02)00322-1.
- Polejack, A. and Tidon, R. (2002) 'A new method for assessing social learning in *Drosophila*.', *Drosophila Information Service*, 85, p. 120.
- Tidon-Sklorz, R. and Sene, F. M. (2001) 'Two new species of the *Drosophila serido* sibling set (Diptera, Drosophilidae)', *Iheringia - Serie Zoologia*, s/v(90), pp. 141–146. doi: 10.1590/s0073-47212001000100014.
- Tidon-Sklorz, R. and Sene, F. M. (1995) 'Fauna of *Drosophila* (Diptera, Drosophilidae) in the northern area of the Cadeia do Espinhaço, states of Minas Gerais and Bahia, Brazil: biogeographical and ecological aspects', *Iheringia - Serie Zoologia*, 78, pp. 85–94.
- Tidon-Sklorz, R. and Sene, F. M. (1995) 'Evolution of the *buzzatii* cluster (*Drosophila repleta* species group) in Middle South America', *Evolución Biológica*, 8, pp. 71–85.
- Tidon-Sklorz, R. and Sene, F. M. (1995) '*Drosophila seriema* n. sp: new member of the *Drosophila serido* (Diptera, Drosophilidae) Superspecies Taxon', *Annals of the Entomological Society of America*, 88(2), pp. 139–142.
- Tidon-Sklorz, R., Vilela, C. R., Sene, F. M. and Pereira, M. A. Q. R. (1994) 'The Genus *Drosophila* (Diptera, Drosophilidae) in the Serra do Cipó, State of Minas Gerais, Brazil', *Revista Brasileira de Entomologia*, pp. 628–637.
- Tidon-Sklorz, R. and Sene, F. M. (1992) 'Vertical and temporal distribution of *Drosophila* (Diptera, Drosophilidae) species in a wooded area in the state of São Paulo, Brazil.', *Revista Brasileira de Biologia*, pp. 311–317.
- Tidon, R. and Sene, F. M. (1988) 'A trap that retains and keeps *Drosophila* alive', *Drosophila Information Service*, 67, p. 89.

## **PRESENTATIONS** (related to the area)

Silent invasions over two decades: small flies that can cause big impact. Webinar Long Term Ecological Research sites, 2021

Workshop on Risk Assessment Protocols for the Introduction of Exotic Species, Ministério do Meio Ambiente (MMA). Editions 2018-2021

Evolutionary Ecology of *Drosophila*-parasitoid Food Webs: From Molecules to Ecosystems (Symposium). Annual Meeting of the Entomological Society of America. Vancouver, 2018

## **GRANTS AND FELLOWSHIPS**

As coordinator: seven grants from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) and Fundação de Amparo à Pesquisa do Distrito Federal (FAPDF)

As collaborator: nine grants from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq), Ministério do Meio Ambiente (MMA) and Conservation International (CI), including:

- Bases para o manejo de *Drosophila suzukii* no Brasil: interações tritróficas entre a espécie invasora seus hospedeiros e parasitoides [Basis for the management of *Drosophila suzukii* in Brazil: tritrophic interactions between the invasive species, its hosts and parasitoids] (CNPq: 2022- )
- Detecção, monitoramento e impactos potenciais de pragas emergentes do morango e citros no Distrito Federal [Detection, monitoring and potential impacts of emerging pests of strawberry and citrus in the Federal District] (FAPDF: 2017- )

## **AWARDS AND HONORS**

Fellow of the Royal Entomological Society, 2021

Paranymph or Patroness in the Biological Sciences graduation ceremony, Universidade de Brasília (1998, 1999, 2002, 2005, 2007, 2009, 2011, 2013, 2014, 2017, 2020)

Academic Excellence Award given by the Universidade de Brasília, for advising the thesis Plasticidade fenotípica de características morfológicas de *Drosophila cardini* [Phenotypic plasticity of morphological traits of *Drosophila cardini*] defended by S. Przybylska, 2015

## **PROFESSIONAL MEMBERSHIPS**

Sociedade Brasileira de Entomologia (SBE)

Sociedade Entomológica do Brasil (SEB)

Sociedade Brasileira para o Progresso da Ciência (SBPC)

Associação Brasileira de Ciência Ecológica e Conservação (ABECO)