

## Supplementary Material to “The contribution of the BIOTA/FAPESP Program to the knowledge on pollination and plant reproduction”

**Supplementary Material 2** - Publications resulted from a systematic review of the literature in the databases Web of Science and Dimensions, starting in 1999, using the following search terms "Pollination" AND "BIOTA/FAPESP". In addition, we consulted the virtual library of FAPESP with the search terms "Pollination" OR "Pollinators" (in English and Portuguese) considering the filter "Programs focused on specific themes - Research in Biodiversity", in order to identify the projects supported by the BIOTA Program and related to plant-pollinator interaction.

| Authors  | Title   | Journal                     | PubYear |
|--|---|-----------------------------|---------|
| Agostini K, Sazima M, Galetto L  | Nectar production dynamics and sugar composition in two <i>Mucuna</i> species (Leguminosae, Faboideae) with different specialized pollinators   | The Science of Nature       | 2011    |
| Amorim FW, Galetto L, Sazima M   | Beyond the pollination syndrome: nectar ecology and the role of diurnal and nocturnal pollinators in the reproductive success of <i>Inga sessilis</i> (Fabaceae)                              | Plant Biology               | 2012    |
| Amorim FW, Wyatt GE, Sazima M  | Low abundance of long-tongued pollinators leads to pollen limitation in four specialized hawkmoth-pollinated plants in the Atlantic Rain forest, Brazil                                       | The Science of Nature       | 2014    |
| Avila RS, Pinheiro M, Sazima M   | The generalist <i>Inga subnuda</i> subsp. <i>luschnathiana</i> (Fabaceae): negative effect of floral visitors on reproductive success?  | Plant Biology               | 2015    |
| Avila RS, Cruz-Barros MAV, Correa MAS, Sazima M  | Tipos polínicos encontrados em esfingídeos (Lepidoptera, Sphingidae) em área de Floresta Atlântica do sudeste do Brasil: uso da palinologia no estudo de interações ecológicas                | Brazilian Journal of Botany | 2010    |
| Barbosa MM, Cameiro LT, Pereira MFCS, Rodriguez CZ, Chagas TRF, Moya, W, Bergamini LL, Mancini MCS, Paes ND, Giraldo LCP | Future scenarios of land-use-cover effects on pollination supply and demand in São Paulo State, Brazil  | Biota Neotropica            | 2020    |
| Brito VLG, Mori GM, Vigna BBZ, Azevedo-Silva M, Souza AP, Sazima M   | Genetic structure and diversity of populations of polyploid <i>Tibouchina pulchra</i> Cogn. (Melastomataceae) under different environmental conditions in extremes of an elevational gradient | Tree Genetics & Genomes     | 2016    |

| Authors  | Title  | Journal                         | PubYear |
|--|--|---------------------------------|---------|
| Brito VLG, Pinheiro M, Sazima M  | <i>Sophora tomentosa</i> and <i>Crotalaria vitellina</i> (Fabaceae): reproductive biology and interactions with bees in the restinga of Ubatuba, São Paulo       | Biota Neotropica                | 2010    |
| Brito VLG, Sazima M  | <i>Tibouchina pulchra</i> (Melastomataceae): reproductive biology of a tree species at two sites of an elevational gradient in the Atlantic rainforest in Brazil | Plant Systematics and Evolution | 2012    |
| Campbell AJ, Carvalheiro LG, Gastauer M, Almeida-Neto M, Giannini TC   | Pollinator restoration in Brazilian ecosystems relies on a small but phylogenetically-diverse set of plant families  | Scientific Reports              | 2019    |
| Cartolano-Jr, EA   | Proposta de um sistema de informação orientado a serviços sobre a biodiversidade de abelhas.   | Thesis                          | 2009    |
| Cordeiro GD, Boff S, Almeida TC, Fernandes PC, Alves-dos-Santos I  | Euglossine bees (Apidae) in Atlantic forest areas of São Paulo State, southeastern Brazil  | Apidologie                      | 2013    |
| Cruaud A, Cook J, Da-Rong Y, Genson G, Jabbour-Zahab R, Kjellberg F, Pereira RAS, Rønsted N, Santos-Mattos O, Savolainen V, Ubaidillah R, van Noort S, Yan-Qiong P, Rasplus JY               | Fig-fig wasp mutualism: the fall of the strict cospeciation paradigm?  | Book Chapter                    | 2011    |
| Cruaud A, Jabbour-Zahab R, Genson G, Couloux A, Yan-Qiong P, Da Rong Y, Ubaidillah R, Pereira RAS, Kjellberg F, van Noort S, Kerdelhu C, Rasplus JY  | Out of Australia and back again: the world-wide historical biogeography of non-pollinating fig wasps (Hymenoptera: Sycophaginae)                                 | Journal of Biogeography         | 2010    |
| Cruaud A, Jabbour-Zahab R, Genson G, Kjellberg F, Kobmoo N, van Noort S, Da-Rong Y, Yan-Qiong P, Ubaidillah R, Hanson PE, Santos-Mattos O, Farache FHA, Pereira RAS, Kerdelhué C, Rasplus JY | Phylogeny and evolution of life-history strategies in the Sycophaginae non-pollinating fig wasps (Hymenoptera, Chalcidoidea)                                     | BMC Ecology and Evolution       | 2011    |
| Demarco D  | Staminal wing and a novel secretory structure of asclepiads  | Botany                          | 2017    |
| Elias LG, Menezes Jr AO, Pereira RAS   | Colonization sequence of non-pollinating fig wasps associated with <i>Ficus citrifolia</i> in Brazil   | Symbiosis                       | 2008    |
| Farache FHA, Ó VT, Pereira RAS   | Novel occurrence of non-pollinating fig wasps (Hymenoptera, Chalcidoidea) in <i>Ficus microcarpa</i> (L.f) in Brazil   | Neotropical Entomology          | 2009    |

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|---|--|----------------------------|---------|
| Gaglianone MC, de Aguiar AJC, Vivallo F, Alves-dos-Santos I   | Checklist das abelhas coletoras de óleos do Estado de São Paulo, Brasil  | Biota Neotropica           | 2011    |
| Giannini TC   | Distribuição geográfica de abelhas e plantas associadas através de modelagem computacional   | Thesis                     | 2011    |
| Giannini TC, Lira-Saade R, Saraiva AM, Alves-dos-Santos I   | Ecological niche similarities of <i>Peponapis</i> bees and non-domesticated <i>Cucurbita</i> species   | Ecological Modelling       | 2011    |
| Giannini TC, Acosta AL, Garofalo CA, Saraiva AM, Alves-dos-Santos I, Imperatriz-Fonseca VL  | Pollination services at risk: Bee habitats will decrease owing to climate change in Brazil.  | Ecological Modelling       | 2012    |
| Giannini TC, Garibaldi LA, Acosta A, Andre L, Silva JS, Maia KP, Saraiva AM, Guimarães PR, Kleinert AP.   | Native and non-native supergeneralist bee species have different effects on plant-bee networks   | Plos One                   | 2015    |
| Giannini TC, Pinto CE, Acosta AL, Taniguchi M, Saraiva AM, Alves-dos-Santos I   | Interactions at large spatial scale: The case of <i>Centris</i> bees and floral oil producing plants in South America  | Ecological Modelling       | 2013    |
| Giannini TC, Saraiva AM, Alves-dos-Santos I   | Ecological niche modeling and geographical distribution of pollinator and plants: A case study of <i>Peponapis fervens</i> (Smith, 1879) (Eucerini: Apidae) and <i>Cucurbita</i> species (Cucurbitaceae) | Ecological Informatics     | 2010    |
| González SJ   | Biologia larval de <i>Pegoscapus tonduzi</i> (Chalcidoidea: Agaonidae), polinizador de <i>Ficus citrifolia</i> (Moraceae)  | Thesis                     | 2009    |
| Gonzalez-Chaves A, Carvalho LG, Garibaldi LA, Metzger JP  | Positive forest cover effects on coffee yields are consistent across region  | Journal of Applied Ecology | 2021    |
| Gonzalez-Chaves A, Jaffe R, Metzger JP, Kleinert MPA  | Forest proximity rather than local forest cover affects bee diversity and coffee pollination services  | Landscape Ecology          | 2020    |
| Guimaraes E, Tunes P, Almeida Junior LD, Di Stasi LC, Doetterl S, Machado SR  | Nectar replaced by volatile secretion: a potential new role for nectarless flowers in a bee-pollinated plant species   | Frontiers in Plant Science | 2018    |
| Imperatriz-Fonseca VL, Alves-dos-Santos I, Santos-Filho OS, Engels W, Ramalho M, Wilms W, Aguilar JBV, Pinheiro-Machado CA, Alves DA, Kleinert, AMP | Checklist das abelhas e plantas melitófilas no Estado de São Paulo, Brasil   | Biota Neotropica           | 2011    |

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|--|---|--|---------|
| Lunau K, Papiorek S, Eltz T, Sazima M  | Avoidance of achromatic colours by bees provides a private niche for hummingbirds   | Journal of Experimental Biology          | 2011    |
| Medeiros HR, Martello F, Almeida EAB, Mengual X, Harper KA, Grandinete YC, Metzger JP, Righi CA, Ribeiro MC              | Landscape structure shapes the diversity of beneficial insects in coffee producing landscapes   | Biological Conservation                  | 2019    |
| Miranda EA, Lima IN, Oi CA, Lopez-Uribe MM, Del Lama MA, Freitas BM, Silva CI  | Overlap of ecological niche breadth of <i>Euglossa cordata</i> and <i>Eulaema nigrita</i> (Hymenoptera, Apidae, Euglossini) accessed by pollen loads and species distribution modeling. | Neotropical Entomology                   | 2021    |
| Montoya-Pfeiffer PM, Rodrigues RR, Alves-dos-Santos I  | Bee pollinator functional responses and functional effects in restored tropical forests   | Ecological Applications                  | 2020    |
| Moré M, Amorim FW, Benitez-Vieyra S, Medina AM, Sazima M, Cocucci AA   | Armament imbalances: match and mismatch in plant-pollinator traits of highly specialized long-spurred orchids   | Plos One                                 | 2012    |
| Moreaux C, Meireles DAL, Sonne J, Badano IE, Classen A, Gonzales-Chaves A, Hipólito J, Klein AM, Maruyama PK, Metzger JP | The value of biotic pollination and dense forest for fruit set of Arabica coffee: A global assessment   | Agriculture Ecosystems & Environment     | 2022    |
| Nunes CEP, Amorim FW, Mayer JLS, Sazima M  | Pollination ecology of two species of <i>Elleanthus</i> (Orchidaceae): novel mechanisms and underlying adaptations to hummingbird pollination   | Plant Biology                            | 2015    |
| Nunes CEP, de MORAES CM, Galetto L, Sazima M   | Anatomy of the floral nectary of ornithophilous <i>Elleanthus brasiliensis</i> (Orchidaceae: Sobralieae)  | Botanical Journal of the Linnean Society | 2013    |
| Nunes CEP, Wolowski M, Pansarin ER, Gerlach G, Aximoff I, Vereecken NJ, Salvador MJ, Sazima M                            | More than euglossines: the diverse pollinators and floral scents of Zygopetalinae orchids   | The Science of Nature                    | 2017    |
| Nunes-Silva P, Hmcir M, da Silva CI, Roldao YS, Imperatriz-Fonseca VL  | Stingless bees, <i>Melipona fasciculata</i> , as efficient pollinators of eggplant ( <i>Solanum melongena</i> ) in greenhouses  | Apidologie                               | 2013    |
| Otárola MF, Sazima M, Solferini VN   | Tree size and its relationship with flowering phenology and reproductive output in Wild Nutmeg trees  | Ecology and Evolution                    | 2013    |

| Authors   | Title   | Journal                                | PubYear |
|---|---|--|---------|
| Pansarin LM, Pansarin ER, Gerlach G, Sazima M                       | The natural history of <i>Cirrhaea</i> and the pollination system of Stanhopeinae (Orchidaceae)   | International Journal of Plant Science | 2018    |
| Pansarin LM, Pansarin ER, Sazima M                                  | Facultative autogamy in <i>Cyrtopodium polyphyllum</i> (Orchidaceae) through a rain-assisted pollination mechanism                          | Australian Journal of Botany           | 2008    |
| Pansarin LM, Pansarin ER, Sazima M                                  | Reproductive biology of <i>Cyrtopodium polyphyllum</i> (Orchidaceae): a Cyrtopodiinae pollinated by deceit                                  | Plant Biology                          | 2008    |
| Pereira FW, Gonçalves RB, Ramos KS                                  | Bee surveys in Brazil in the last six decades: a review and scientometrics  | Apidologie                             | 2021    |
| Quinalha, MM, Nogueira A, Ferreira G, Guimaraes E                   | Effect of mutualistic and antagonistic bees on floral resources and pollination of a savanna shrub  | Flora                                  | 2017    |
| Raiol RL, Gastauer, M, Campbell AJ, Borges RC, Awade M, Giannini TC | Specialist bee species are larger and less phylogenetically distinct than generalists in tropical plant-bee interaction networks            | Frontiers in Ecology and Evolution     | 2021    |
| Ritter LMO  | Diversidade genética de <i>Qualea grandiflora</i> Mart estimada por microssatélites em quatro áreas de Cerrado do estado de São Paulo       | Thesis                                 | 2012    |
| Rocca MA, Sazima M  | Quantity versus quality: identifying the most effective pollinators of the hummingbird-pollinated <i>Vriesea rodigasiana</i> (Bromeliaceae) | Plant Systematics and Evolution        | 2012    |
| Rocca MA, Sazima M, Sazima I  | Woody woodpecker enjoys soft drinks: the blond-crested woodpecker seeks nectar and pollinates canopy plants in south-eastern Brazil         | Biota Neotropica                       | 2006    |
| Rocca, MA.; Sazima, M   | Ornithophilous canopy species in the Atlantic rain forest of southeastern Brazil  | Journal of Field Ornithology           | 2008    |
| Saab GS, Mansano VF, Nogueira A, Maia IC, Bergamo PJ, Paulino JV    | A sophisticated case of division of labour in the trimorphic stamens of the <i>Cassia fistula</i> (Leguminosae) flower.                     | Annals of Botany                       | 2021    |

| Authors  | Title  | Journal                              | PubYear |
|--|--|--------------------------------------|---------|
| Santos LM, Melo GAR  | Updating the taxonomy of the bee genus <i>Megalopta</i> (Hymenoptera: Apidae, Augochlorini) including revision of the Brazilian species                    | Journal of Natural History           | 2014    |
| Satumi FT, Jaffe R, Metzger JP   | Landscape structure influences bee community and coffee pollination at different spatial scales.   | Agriculture Ecosystems & Environment | 2016    |
| Sazatomil FD, Moré M, Benitez-Vieyra S, Cocucci AA, Kitching IJ, Schlumpberger BO, Oliveira PE, Sazima M, Amorim FW  | Beyond neutral and forbidden links: morphological matches and the assembly of mutualistic hawkmoth–plant networks  | Journal of Animal Ecology            | 2016    |
| Sazima I, Pinheiro M, Sazima, M  | A presumed case of functional convergence between the flowers of <i>Schizolobium parahyba</i> (Fabaceae) and species of Malpighiaceae                      | Plant Systematics and Evolution      | 2009    |
| Simmons BI, Vizentin-Bugoni J, Maruyama PK, Cotton PA, Marín-Gómez OH, Lara C, Rosero-Lasprilla L, Maglianesi MA, Ortiz-Pulido R, Rocca MA, Rodrigues LC, Tinoco BA, Vasconcelos MF, Sazima M, González AMM, Sonne J, Rahbek C, Dicks LV, Dalsgaard B, Sutherland WJ | Abundance drives broad patterns of generalisation in plant–hummingbird pollination networks  | Oikos                                | 2019    |
| Souza CV, Nepi M, Machado SR, Guimaraes E  | Floral biology, nectar secretion pattern and fruit set of a threatened Bignoniaceae tree from Brazilian tropical forest                                    | Flora                                | 2017    |
| Stahl JM, Nepi M, Galetto L, Guimaraes E, Machado SR   | Functional aspects of floral nectar secretion of <i>Ananas ananassoides</i> , an omithophilous bromeliad from the Brazilian savanna                        | Annals of Botany                     | 2012    |
| Sujii OS, Tambarussi EV, Grando C, Silvestre EA, Viana JPG, Brancalion PHS, Zucchi MI  | High gene flow through pollen partially compensates spatial limited gene flow by seeds for a Neotropical tree in forest conservation and restoration areas | Conservation Genetics                | 2021    |
| Tarazi R   | Diversidade genética, estrutura genética espacial, sistema de reprodução e fluxo gênico em uma população de <i>Copaifera langsdorffii</i> Desf. no cerrado | Thesis                               | 2009    |
| Tarazi R, Sebbenn AM, Kageyama PY, Vencovsky R   | Edge effects enhance selfing and seed harvesting efforts in the insect-pollinated Neotropical tree <i>Copaifera langsdorffii</i> (Fabaceae)                | Heredity                             | 2013    |

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|--|---|----------------|----------------|
| Valadão-Mendes LB, Rocha I, Meireles DAL, Leite FB, Sazima M, Maruyama PK, Brito VLG | Flower morphology and plant–bee pollinator interactions are related to stamen dimorphism in Melastomataceae | Plant Biology  | 2021           |