

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

Supplementary Material 3 – Projects supported by BIOTA/FAPESP Program; main goals and impact indexes. Abbreviations: BP.TT = Scholarship in Brazil: Technical Training Program; BP.IC = Scholarship in Brazil: Scientific Initiation; BP.MS = Scholarship in Brazil: Master; BP.DR = Scholarship in Brazil: PhD; BP.DD = Scholarship in Brazil: PhD (Direct); BE.PQ = Scholarships abroad: Research. Information from the FAPESP Virtual Library (<https://bv.fapesp.br/pt/>) and from the BIOTA/FAPESP Program website (<https://www.biota.org.br/>).

Projects supported by BIOTA/FAPESP	Summary of the original main goals of the funded projects by BIOTA on pollination	Impact Indexes			
		Number of Scientific papers	Number of Patents	Number of Popular Science papers	Scholarships
2019/19544-7 - Efeitos sinérgicos de múltiplos mutualistas nas plantas: como bactérias, fongos e abelhas contribuem para a evolução de um grupo de leguminosas Principal Researcher: Anselmo Nogueira Period 2021 to 2027	-investigate the interactive effect of three mutualisms (nitrogen fixation, protection against herbivory and pollination) on the evolution of legumes in the Neotropical region. -understand the role of mutualistic partners in the evolution of these plants and the role of plants in the functioning of these mutualisms can help to comprehend the functioning and evolution of a large part of the ecological services in Brazilian ecosystems	2			2 BP.TT 1 BP.IC 1 BP.MS 1 BP.DR 1 BP.DD 1 BE.PQ
2017/21097-3 - Interações abelha-agricultura: perspectivas para a utilização sustentável Principal Researcher: Osmar Malaspina Period 2018 -2023	-evaluate the effects of different pesticides and their mixtures on <i>Apis mellifera</i> , considered as a model species in toxicological studies, and compare these effects with two species of native bees, <i>Melipona scutellaris</i> and <i>Scaptotrigona postica</i> ; a parasocial species, <i>Xylocopa frontalis</i> and two solitary species, <i>Tetrapedia diversipes</i> and <i>Centris analis</i> .	45	1	6 newsletter papers	4 BP.IC 2 BP.MS 3 BP.DR 2 BP.DD 5 BP.PD 1 BE.PQ

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<p>2013/23457-6 - Projeto Interface: Relações entre estrutura da paisagem, processos ecológicos, biodiversidade e serviços ecossistêmicos Principal Researcher: Jean Paul Walter Metzger Period 2014 -2020</p>	<p>-contribute to an improved understanding of how habitat loss influences ecosystem services, and specifically investigate the likelihood of both thresholds and trade-offs in service provision. -relate rates and stocks measurements of key ecosystem services, including regulatory (i.e. pollination, pest and disease control, hydrologic flow regulation and water quality), provisioning (i.e. water storage) and supportive services (i.e. carbon stocks) with parameters associated with landscape structure, including the proportion of native habitat in the landscape, the proximity and number of edges between native vegetation and agricultural areas, and landscape composition</p>	29		11 newsletter papers	<p>1 BP.IC 2 BP.MS 2 BP.DR 4 BP.PD 1 BE.PQ 1 BP. TT</p>
<p>2011/07857-9 - Caracterização populacional de abelhas das orquídeas (Apidae, Euglossini) do Estado de São Paulo por morfometria geométrica de asas e variabilidade do DNA mitocondrial Principal Researcher: Tiago Mauricio Francoy Period 2011 – 2015</p>	<p>-characterize populations of Euglossini bees from São Paulo, Brazil using wing geometric morphometry analyses and mitochondrial DNA variability</p>	16			<p>1 BP.DR</p>
<p>2010/52314-0 - Diptera dos estados do Mato Grosso, Mato Grosso do Sul e Rondônia: diversidade, sistemática e limite distribucionais Principal Researcher: Carlos José Einicker Lamas Period 2011- 2014</p>	<p>- Carry out surveys of the Diptera fauna from periodic collections in pre-defined locations in the states of Mato Grosso, Mato Grosso do Sul and Rondônia, targeting the biomes: Cerrado, Pantanal and Amazon; -Review supraspecific taxa of Diptera families, including redescription of little known taxa and descriptions of possible new taxa; -Provide identification keys for species and genera of Diptera families in the study region; -Elaborate check-lists and catalogs of Diptera species in the study region; -Organize distribution maps of genera and species; -Recognize distributional limits (distribution patterns) of genera and species in the study region.</p>	60			

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<p>2010/50811-7 - Composição florística e estrutura da Floresta Ombrófila Densa Atlântica dos Núcleos Picinguaba e Santa Virgínia do Parque Estadual da Serra do Mar, São Paulo, Brasil Principal Researcher: Carlos Alfredo Joly Period 2010 – 2013</p>	<p>-Complement data from the Thematic Project BIOTA Functional Gradient (FAPESP 03/12595-7) which highlighted the need for a floristic-phytosociological study at intermediate altitudes between the Submontane Dense Ombrophylous Forest and the Montane Dense Ombrophylous Forest of the Picinguaba and Santa Virgínia Parks . -widen the physiognomic spectrum including the Upper Montane Dense Ombrophylous Forest -carry out a more detailed and complete analysis of the physiognomies of the Atlantic Rainforest, aiming to determine the necessary adaptations to the vegetation classification system proposed by Veloso et al. (1991)</p>	4			2 BP.TT
<p>2004/10299-4 - Efeitos da fragmentação florestal no funcionamento das populações de figueiras e no mutualismo <i>Ficus</i>-vespas de figo Principal Researcher: Rodrigo Augusto Santinelo Pereira Period 2006 -2011</p>	<p>-understand the functioning and evaluating the sensitivity of <i>Ficus</i> populations to the fragmentation of the habitat -investigate the following questions: (1) Do the diversity and wealth of species of wasp associated with the <i>Ficus</i> species vary according to the level of fragmentation and disturbance of the habitat? (2) If present, is this variation an indication that the populations of <i>Ficus</i> are close to critical size? (3) Is there a limitation of pollen in the small or very degraded fragments? (4) Is the level of parasitism by non-pollinating wasps greater in small or very degraded fragments?</p>	18			4 BP.MS 3 BP.DR 5 BP. TT
<p>2004/15801-0 - Biodiversidade e uso sustentável de polinizadores, com ênfase em abelhas Meliponini Principal Researcher: Vera Lucia Imperatriz Fonseca Period 2006 – 2010</p>	<p>-evaluate the status of the interactions among bees and plants -verify the dynamic of population of native bees, using molecular tools; -evaluate the problems that limit the use of bees in agriculture -apply information technology tools for research and extension in ecosystem services with emphasis on bees as pollinators.</p>	58	1	8 newsletter papers	3 BP.IC 1 BP.MS 1 BP.DD 1 BP.PD 10 BP. TT