

Supplemental Material

A review of the nest-entrance lurkers of meliponine bees (Hymenoptera: Apidae)

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Table S1. Summary of documented nest-entrance lurkers of Meliponini reported in the literature.

References. List of works cited in Table S1.

Table S1. Summary of documented nest-entrance lurkers of Meliponini reported in the literature.

Order	Predator species	Nesting Meliponini species	Location	Reference
Araneae	<i>Crossopriza lyoni</i> (Blackwall, 1867)	Meliponini species	Bangalore, Chickaballapur & Kolar, Karnataka, India	Gopinatha & Basavarajappa, 2022
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	<i>Hypotrigona gribodoi</i> (Magretti, 1884)	Bijilo Forest, Banjul, Gambia	Penney & Gabriel, 2009
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	<i>Nannotrigona testaceicornis</i> (Le Peletier, 1836)	Salvador, Bahia, Brazil	Trindade-Santos <i>et al.</i> 2023
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	<i>Tetragonisca angustula</i> (Latreille, 1811)	Brazil	Nogueira-Neto, 1997
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	Meliponini species	Bangalore, Chickaballapur & Kolar, Karnataka, India	Gopinatha & Basavarajappa, 2022
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	<i>Hypotrigona</i> sp. Cockerell, 1934	Guinea, Kenya, Tanzania and Madagascar	Razakamiaramanana <i>et al.</i> 2025
Araneae	<i>Menemerus bivittatus</i> (Dufour, 1831)	<i>Liotrigona</i> sp. Moure, 1961	Guinea, Kenya, Tanzania and Madagascar	Razakamiaramanana <i>et al.</i> 2025
Araneae	<i>Phidippus</i> sp. Koch, 1846	<i>Tetragonula iridipennis</i> (Smith, 1854)	Vadodara, Gujarat State, India	Vyas, 2012
Araneae	<i>Pholcus phalangioides</i> (Füssli, 1775)	Meliponini species	Bangalore, Chickaballapur & Kolar, Karnataka, India	Gopinatha & Basavarajappa, 2022
Araneae	<i>Plexippus petersi</i> (Karsch, 1878)	<i>Liotrigona</i> sp. Moure, 1961	Guinea, Kenya, Tanzania and Madagascar	Razakamiaramanana <i>et al.</i> 2025
Araneae	<i>Plexippus</i> sp. Koch, 1846	<i>Tetragonula iridipennis</i> (Smith, 1854)	Vadodara, Gujarat State, India	Vyas, 2012
Araneae	<i>Siler semiglaucus</i> (Simon, 1901)	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018

Araneae	<i>Telamonia</i> sp. Thorell, 1887	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Araneae	Salticidae indeterminated	<i>Melipona quadrifasciata</i> Lepetelier, 1836 (the spider hunted a Phorid fly)	Brazil	Nogueira-Neto, 1997
Diptera	<i>Clephydroneura</i> sp. Becker, 1925	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Diptera	<i>Diogmites</i> sp. Loew, 1866	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Diptera	<i>Laphria</i> sp. Meigen, 1803	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Diptera	<i>Machimus</i> sp. Loew, 1849	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Diptera	<i>Ommatius</i> sp. Wiedemann, 1821	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Hemiptera	<i>Apiomerus pictipes</i> Herrich-Schäffer, 1846	<i>Trigona fulviventris</i> Guérin-Ménéville, 1844	Guanacaste Province, Costa Rica	Johnson & Wiemer, 1982
Hemiptera	<i>Apiomerus pilipes</i> (Fabricius, 1787)	<i>Melipona seminigra merrillae</i> Cockerell, 1919	Manaus, Amazonas State, Brazil	Silva & Gil-Santana, 2004
Hemiptera	<i>Apiomerus</i> sp. Hahn, 1831	<i>Tetragonisca angustula</i> (Latreille, 1811)	São Paulo & Goiás, Brazil	Nogueira-Neto, 1997
Hemiptera	<i>Apiomerus</i> sp. Hahn, 1831	<i>Frieseomelitta varia</i> (Lepeletier, 1836)	São Paulo & Goiás, Brazil	Nogueira-Neto, 1997
Hemiptera	<i>Manicocoris rufipes</i> (Fabricius, 1787)	<i>Trigona</i> sp. Jurine, 1807	Belém, Pará, Brasil	Adis, 1984
Hemiptera	<i>Pahabengkakia piliceps</i> Miller, 1841	<i>Tetragonilla collina</i> (Smith, 1857)	Thailand	Wattanachaiyingcharoen & Jongjitvimol, 2007

Hymenoptera	<i>Anoplolepis longipes</i> (Jerdon, 1852)	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Hymenoptera	<i>Camponotus</i> sp. Mayr, 1861	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Hymenoptera	<i>Odontoponera</i> sp. Mayr, 1862	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Hymenoptera	<i>Oecophylla smaragdina</i> Fabricius, 1775	<i>Heterotrigona itama</i> (Cockerell, 1918)	Serdang, Malaysia	Jaapar <i>et al.</i> 2018
Hymenoptera	<i>Polybia ignobilis</i> (Haliday, 1836)	<i>Melipona quadrifasciata</i> Lepeletier, 1836	Brazil	Nogueira-Neto, 1997
Hymenoptera	<i>Polybia ignobilis</i> (Haliday, 1836)	<i>Melipona fasciculata</i> Smith, 1854	Brazil	Nogueira-Neto, 1997
Hymenoptera	<i>Polybia ignobilis</i> (Haliday, 1836)	<i>Tetragonisca angustula</i> (Latreille, 1811)	Brazil	Nogueira-Neto, 1997
Hymenoptera	<i>Polybia (Trichinothorax)</i> sp. Carpenter & Day, 1988	<i>Scaura longula</i> (Lepeletier, 1836)	São Simão, São Paulo, Brazil	Nogueira <i>et al.</i> 2023
Hymenoptera	<i>Trachypus boharti</i> Rubio-Espina, 1975	<i>Scaptotrigona postica</i> (Latreille, 1807)	São Simão, São Paulo, Brazil	Koedam <i>et al.</i> 2009
Hymenoptera	<i>Trachypus taschenbergi</i> Rubio-Espina, 1975	<i>Paratrigona subnuda</i> Moure, 1947	Curitiba, Paraná Sate, Brazil	Pereira & Gonçalves, 2021
Mantodea	<i>Acontista cordillerae</i> Saussure & Zehntner, 1984	<i>Scaptotrigona mexicana</i> (Guérin-Ménéville, 1845)	Xalapa, Veracruz, México	This work
Anura	<i>Rhinella marina</i> L. 1758	Meliponini species	Neotropics	Roubik, 2023
Squamata	<i>Calotis versicolor</i> Daudin, 1802	Meliponini species	Bangalore, Chickaballapur & Kolar, Karnataka, India	Gopinatha & Basavarajappa, 2022
Squamata	<i>Hemidactylus flaviviridis</i> Rüppell, 1835	<i>Tetragonula iridipennis</i> (Smith, 1854)	Vadodara, Gujarat State, India	Vyas, 2012
Squamata	<i>Hemidactylus mabouia</i>	Meliponini species	Worldwide	Roubik, 2023

	(Moureau de Jonnès, 1818)			
Squamata	<i>Psammophilus dorsalis</i> (Gray, 1831)	Meliponini species	Bangalore, Chickaballapur & Kolar, Karnataka, India	Gopinatha & Basavarajappa, 2022
Squamata	<i>Tropidurus hispidus</i> (Spix, 1825)	Meliponini species	Neotropics	Roubik, 2023

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