

The *Drosophila*-parasitizing wasp *Leptopilina heterotoma*:

A comprehensive model system in ecology and evolution

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Supplementary table 2. The ability of *L. heterotoma* to parasitize and develop on different *Drosophila* species, including an estimate of the percentage survival on each host based on data available in the literature. The substrate on which the hosts lay eggs is also reported.

Host species	Group	Host substrate	Successful development?	Survival	References
<i>D. (Dorsilopha) busckii</i>	Dorsilopha	Vegetables (cauliflower, lettuce, zucchini), potatoes, fruits (melon)	No	0%	Atkinson and Shorrocks, 1977; Girod, Lierhmann, <i>et al.</i> , 2018
<i>D. funebris</i>	Funebris	Fruit, Other plant parts, Fungus	Yes	NA	Markow and O'Grady, 2008; Trivellone <i>et al.</i> , 2020
<i>D. immigrans</i>	Immigrans	Cactus, Other plant parts, Flux, Fungus, Fruits	Low	2%	Janssen, 1989; Markow and O'Grady, 2008

			Low	<1%	Girod, Lierhmann, <i>et al.</i> , 2018
			Yes	19%	Hedlund, Vet and Dicke, 1996
<i>D. ananassae</i>	Melanogaster	Fruits, flowers and fungus	No	0%	Buruga and Olembo, 1971; Schlenke <i>et al.</i> , 2007
<i>D. biarmipes</i>	Melanogaster	Rotten fruits	No	0%	Schlenke <i>et al.</i> , 2007; Atallah <i>et al.</i> , 2014; Dweck <i>et al.</i> , 2021
<i>D. erecta</i>	Melanogaster	<i>Pandanus</i> fruits	Yes	59.7%	Lachaise <i>et al.</i> , 1988; Lynch, Schlenke and Roode, 2016
			Yes	41%	Schlenke <i>et al.</i> , 2007
<i>D. eugracilis</i>	Melanogaster	Fruits (banana traps)	Yes	46%	Schlenke <i>et al.</i> , 2007; Kimura and Suwito, 2012
<i>D. lutescens</i>	Melanogaster	Fruits and flowers	Low	1%	Schlenke <i>et al.</i> , 2007; Mitsui, Beppu and Kimura, 2010
<i>D. mauritiana</i>	Melanogaster	Fruits	Yes	76%	Schlenke <i>et al.</i> , 2007
<i>D. melanogaster</i>	Melanogaster	Fruit, Flower, Other plant parts, Cactus	Yes	26.1%	Janssen, 1989; Markow and O'Grady, 2008
			Yes	89.5%	Lynch, Schlenke and Roode, 2016
			Yes	93%	Schlenke <i>et al.</i> , 2007
			Yes	88.6%	Carton <i>et al.</i> , 1991
			Yes	46.7%	Girod, Lierhmann, <i>et al.</i> , 2018
<i>D. orena</i>	Melanogaster	Waterberry (<i>Syzygium staudtii</i>)	Yes	80.9%	Lynch, Schlenke and Roode, 2016; Comeault <i>et al.</i> , 2017
<i>D. paralutea</i>	Melanogaster		No	0%	Schlenke <i>et al.</i> , 2007
<i>D. santomea</i>	Melanogaster		Yes	42.9%	Lynch, Schlenke and Roode, 2016
				61%	Schlenke <i>et al.</i> , 2007
<i>D. sechellia</i>	Melanogaster	Fruits of <i>Morinda citrifolia</i> (Rubiaceae) specifically	Yes	64%	Lachaise <i>et al.</i> , 1988; R'Kha, Capy and David, 1991; Schlenke <i>et al.</i> , 2007

<i>D. simulans</i>	Melanogaster	Fruits	Yes	65.3%	Janssen, 1989
			Yes	78%	Lynch, Schlenke and Roode, 2016
			Yes	56%	Schlenke <i>et al.</i> , 2007
			Yes	51%	Carton <i>et al.</i> , 1991
<i>D. sukuzii</i>	Melanogaster	Flowers and ripe fruits	No	0%	Mitsui, Beppu and Kimura, 2010; Lynch, Schlenke and Roode, 2016; Dweck <i>et al.</i> , 2021
					Poyet <i>et al.</i> , 2013; Lynch, Schlenke and Roode, 2016; Mazzetto <i>et al.</i> , 2016, 2016; Trivellone <i>et al.</i> , 2020
			Low	<1%	Rossi-Stacconi <i>et al.</i> , 2015; Girod, Lierhmann, <i>et al.</i> , 2018
<i>D. teissieri</i>	Melanogaster	<i>Psidium guajava</i> , <i>Ficus</i> sp., <i>Parinari excelsa</i> , <i>Citrus maxima</i> , <i>Tieghemella heckelii</i>	Yes	31.4%	Lachaise <i>et al.</i> , 1988; Lynch, Schlenke and Roode, 2016
				64%	Schlenke <i>et al.</i> , 2007
<i>D. suboscuro</i>	Obscuro	Fruits and Sap-fluxes	Yes	87.3%	Janssen, 1989
			Yes	30.4%	Girod, Lierhmann, <i>et al.</i> , 2018
<i>D. obscuro</i>	Obscuro	Fruits and Sap-fluxes	Yes	17.5%	Janssen, 1989
<i>D. pseudoobscuro</i>	Obscuro	Fruits and Sap-fluxes	Yes	90%	Dobzhansky and Epling, 1944; Carson, 1951; Schlenke <i>et al.</i> , 2007
<i>D. tristis</i>	Obscuro	Fruits	Yes	5.6%	Janssen, 1989
<i>D. kuntzei</i>	Quinaria	Sap-fluxes	Yes	89.3%	Janssen, 1989
<i>D. phalerata</i>	Quinaria	Fungus, Fruits and Sap-fluxes	Yes	49.5%	Janssen, 1989; Driessen, Hemerik and van Alphen, 1990

<i>D. buzzati</i>	Repleta	Tissues of Opuntieae, Trichocereinae and Cereae cacti	Yes	34.6%	Carson and Wasserman, 1965; Ruiz, Fontdevila and Wasserman, 1982; Carton <i>et al.</i> , 1991; Hasson, Naveira and Fontdevila, 1992; Fanara, Fontdevila and Hasson, 1999
<i>D. hydei</i>	Repleta	Tissues and fruits of <i>Opuntia</i> cacti	Yes	>90% (6/9 strains) 56-82% (3/9 strains)	Xie, Vilchez and Mateos, 2010; Oliveira <i>et al.</i> , 2012
<i>D. robusta</i>	Robusta	Flux	Yes	30%	Schlenke <i>et al.</i> , 2007; Markow and O'Grady, 2008
<i>D. littoralis</i>	Virilis	Fruits and Sap-fluxes	Yes	10.8%	Janssen, 1989
<i>D. virilis</i>	Virilis	Flux	Yes	59%	Schlenke <i>et al.</i> , 2007; Markow and O'Grady, 2008
<i>D. willistoni</i>	Willistoni	Flower, Fruit	Yes	71%	Schlenke <i>et al.</i> , 2007; Markow and O'Grady, 2008
<i>Zaprionus vittiger</i>	Zaprionus (armatus group)	Flower, Fruit	Low	4%	Buruga and Olembo, 1971; Buruga, 1976; Schlenke <i>et al.</i> , 2007

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