



Review Article

Record of aphidophagous syrphids with their prey and host plants in India: A review

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ABSTRACT: The article deals with the association of aphidophagous syrphids with their prey species and their host plants for programming the biocontrol approach against aphid pests. Aphids are tiny sap-sucking bugs and they are important phytophagous pests due to their polymorphism and rapid increase of their numbers by parthenogenetic development. Larvae of syrphids are the most important natural enemies of several sap-sucking insects and are useful bioagents in biological control programmes. After reviewing many articles 49 species of syrphids are recognised as predators of 72 aphid species infesting more than 141 plants of different families. Among these syrphids, *Episyrphus balteatus* was reported as a predator on maximum number of aphid species (43 species) followed by *Ischiodon scutellaris* (34 species), *Eupeodes confrater* (20 species), *Betasyrphus serarius* (18 species), *Paragus serratus* (17 species), and *Allograpta javana* (12 species).

KEYWORDS: Aphid, biological control, host plants, syrphids

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INTRODUCTION

Aphids (Homoptera: Aphididae) are tiny sap-sucking plant bugs that are important phytophagous pests due to their polymorphism, host-shifting heteroecious behaviour and reproductive habits. They target every part of the plant's tissues that directly harm crops by reducing the growth of plants (Singh & Singh, 2021). They are also capable of spreading viral diseases in plants. The green peach aphid (*Myzus persicae*) individually capable of spreading 110 viruses in plants (Singh & Singh, 2016). Aphids are more susceptible to biological control because they are restricted in their mobility (Joshi & Ballal, 2013). Syrphids are essential predators of aphids and serve a key role in their control.

The family Syrphidae (Diptera) is a huge and diversified group of insects distributed worldwide. Syrphid flies are commonly known as hoverflies, flower flies, sunflies and drone flies (Ghorpade, 1981). They are active fliers that have loud vibration of flight and are the second most important pollinators of agricultural and non-agricultural crops (Mitra *et al.*, 2015; Sutherland *et al.*, 1999). Larvae of syrphids are the most important natural enemies of sap-sucking insect pests (aphids) and are useful bioagents in biological control programmes.

About 6,008 species of syrphid flies have been reported worldwide under 199 genera, in which 357 species of 69 genera are currently recorded in India (Pape, 2016). The syrphid larvae are found mostly in aquatic and terrestrial habitats, they can be phytophagous, predatory and scavengers. About 25% are predacious; mainly aphidophagous belong to the tribe Syrphinae and Eristalinae (Joshi & Ballal, 2013).

Earlier about 27 species of aphidophagous syrphid were reported from India in which 24 identified and 3 were unidentified species of Syrphidae (Agarwala *et al.*, 1984). After reviewing many articles 49 species of syrphids are recognised as aphidophagous viz., *Allobaccha apicalis*, *Allobaccha sapphirina*, *Allograpta javana*, *Asarkina belli*, *Asarkina ericetorum*, *Asiobaccha nubilipennis*, *Betasyrphus fletcheri*, *Betasyrphus isaaci*, *Betasyrphus linga*, *Betasyrphus serarius*, *Betasyrphus sp.*, *Chrysotoxum baphyrum*, *Dideopsis aegrota*, *Epistrophe griseocincta*, *Episyrphus balteatus*, *Episyrphus viridaureus*, *Eristalinus aeneus*, *Eristalinus quinquelineatus*, *Eristalis cerealis*, *Eristalis tenax*, *Eumerus albifrons*, *Eumerus nr. albifrons*, *Eupeodes bucculatus*, *Eupeodes confrater*, *Eupeodes corollae*, *Eupeodes latifasciatus*, *Eupeodes sp.*, *Harmonia dimidiata*, *Ischiodon scutellaris*, *Ischiodon sp.*, *Melanostoma orientale*, *Melanostoma univittatum*, *Microdon bellus*, *Palpada interrupta*, *Paragus politus*, *Paragus serratus*, *Paragus tibialis*, *Paragus yerburiensis*, *Scaeva*

albomaculata, *Scaeva latimaculata*, *Scaeva pyrastris*, *Scaeva selenitica*, *Sphaerophoria bengalensis*, *Sphaerophoria indiana*, *Sphaerophoria scripta*, *Sphaerophoria* sp., *Syrphus fulvifacies*, *Syrphus* sp., and *Xanthogramma* sp. These syrphids are predators of 72 known aphid species infesting more than 141 plants of different families. Among 49 species of syrphids, *E. balteatus* predate on a maximum number of aphid species (43 species) followed by *I. scutellaris* (34 species), *E. confrater* (20 species), *B. serarius* (18 species), *P. serratus* (17 species), and *A. javana* (12 species).

The information about the associations of the trophic levels within a community is essential to understanding the true nature of interaction among the food plants, herbivore insects and predators. These complexes are a source of information through which biological studies of predators can be made and are very helpful in programming a biocontrol approach against the pest. Hence, in the present review article, we have enlisted the list of syrphids with aphid prey species and their host plants (Table 1).

Table 1. List of aphidophagous syrphids with their aphid prey and host plants from India

1. <i>Allobaccha apicalis</i> (Loew, 1858), Syn. <i>Baccha nigricosta</i> (Brunetti, 1907), Syn. <i>Baccha apicalis</i> (Loew, 1858)		
Aphid species	Host plants	References
Unidentified aphids	Grass	Anand <i>et al.</i> , 1967
2. <i>Allobaccha sapphirina</i>, (Wiedemann, 1830), Syn. <i>Baccha sapphirina</i> (Wiedemann, 1830)		
Unidentified aphids	<i>Citrus</i> sp.	Bhatia and Shaffi, 1932
3. <i>Allograpta javana</i> (Wiedemann, 1824), <i>Sphaerophoria javana</i> (Wiedemann, 1824), <i>Syrphus javana</i> (Wiedemann, 1824)		
<i>Aphis craccivora</i>	<i>Lablab purpureus</i>	Kumar <i>et al.</i> , 2015
<i>Aphis gossypii</i>	<i>Gossypium</i> sp.	Bhatia and Shaffi, 1932; Ghorpade, 1973; Rao, 1969
	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
<i>Aphis odinae</i>	<i>Mangifera indica</i>	Ghorpade, 1973
<i>Cervaphis rappardi indica</i>	<i>Cajanus cajan</i>	Shantibala <i>et al.</i> , 1997
<i>Lipaphis erysimi</i>	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica rapa</i>	Agarwala <i>et al.</i> , 1989
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
<i>Macrosiphum rosae</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1979
<i>Melanaphis sacchari</i>	<i>Sorghum bicolor</i>	Patnaik <i>et al.</i> , 1977
	<i>Zea mays</i>	Patnaik <i>et al.</i> , 1977
<i>Myzus persicae</i>	-	Ghorpade, 1973; Rao, 1969
<i>Rhopalosiphum maidis</i>	<i>Zea mays</i>	Ghorpade, 1973
<i>Sitobion rosaeiformis</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1979; Raychaudhuri <i>et al.</i> , 1978
<i>Therioaphis trifolii</i>	<i>Medicago sativa</i>	Ghorpade, 1973
Unidentified aphids	<i>Brassica</i> sp.	Agarwala <i>et al.</i> , 1984
4. <i>Asarkina belli</i> Ghorpadé, (1994)		
<i>Aphis gossypii</i>	<i>Hibiscus rosasinensis</i>	Chinnu <i>et al.</i> , 2023
5. <i>Asarkina ericetorum</i> (Fabricius, 1781)		
<i>Aphis craccivora</i>	<i>Lablab purpureus</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
<i>Aphis gossypii</i>	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
<i>Aphis nasturtii</i>	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
Unidentified aphids	<i>Zea mays</i>	Cherian, 1934
6. <i>Asiobaccha nubilipennis</i> (Austen, 1893). Syn. <i>Allobaccha nubilipennis</i> (Austen, 1893)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Radhakrishnan and Murlidharan , 1993; 1991(1995); 1995
7. <i>Betasyrphus fletcheri</i> (Ghorpade, 1994)		

<i>Aphis craccivora</i>	<i>Lablab purpureus</i>	Joshi <i>et al.</i> , 1997
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> , 1997
8. <i>Betasyrphus isaaci</i> (Bhatia, 1933), Syn. <i>Syrphus isaaci</i> (Bhatia, 1933)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Sharma <i>et al.</i> , 2006
<i>Lipaphis erysimi</i>	<i>Brassica juncea</i>	Manpoong <i>et al.</i> , 2016
	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bisht <i>et al.</i> , 2006
	<i>Sinapis</i> sp.	Bhatia and Shaffi, 1932
9. <i>Betasyrphus linga</i> (Ghorpade, 1994)		
<i>Aphis craccivora</i>	<i>Cajanus cajan</i>	Joshi <i>et al.</i> , 1997
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> , 1999b
<i>Hyadaphis coriandari</i>	<i>Foeniculum vulgare</i>	Udayakumar <i>et al.</i> , 2023a
10. <i>Betasyrphus serarius</i> (Wiedemann, 1830)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Devi <i>et al.</i> , 2010; Radhakrishnan and Murlidharan, 1993; 1991(1995); 1995
<i>Aphis craccivora</i>	-	Ghorpade, 1981
<i>Aphis gossypii</i>	-	Ghorpade, 1981
	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
	<i>Solanum melongena</i>	Chaudhary and Singh, 2012
<i>Aphis solanella</i>	-	Ghorpade, 1981
	<i>Capsicum frutescens</i>	Chaudhary and Singh, 2012
<i>Aphis spiraeicola</i>	<i>Bidens pilosa</i>	Agarwala <i>et al.</i> , 1979; Agarwala <i>et al.</i> , 1984
<i>Aphis verbasci</i>	<i>Verbascum thapsus</i>	Das and Raychaudhuri, 1983
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 1996; Devi <i>et al.</i> , 1996
<i>Hyperomyzus carduellinus</i>	<i>Sonchus arvensis</i>	Ghosh <i>et al.</i> , 1985
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bhat and Bhagat, 2017
	<i>Brassica juncea</i> var. <i>rugosa</i>	Devi <i>et al.</i> , 2002
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica</i> sp.	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1979; Agarwala <i>et al.</i> , 1989; Agarwala <i>et al.</i> , 1984; Devi <i>et al.</i> , 1996; Rahman, 1940
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
<i>Macrosiphum rosae</i>	<i>Rosa canina</i>	Raychaudhuri <i>et al.</i> , 1978
<i>Macrosiphum rosaeiformis</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1984
<i>Myzackaia verbasci</i>	<i>Rubia cordifolia</i>	Das and Raychaudhuri, 1983
<i>Myzus dycei</i>	<i>Urtica dioica</i>	Ghosh <i>et al.</i> , 1985
	<i>Urtica</i> sp.	Das and Raychaudhuri, 1983
<i>Myzus persicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2006; Devi <i>et al.</i> , 1996;
<i>Myzus sorbi</i>	<i>Sorbaria tomentosa</i>	Ghosh <i>et al.</i> , 1985
<i>Sitobion rosaeiformis</i>	<i>Rosa bourboniana</i>	Kakkar and Sood, 1989
<i>Uroleucon parsonchi</i>	<i>Sonchus arvensis</i>	Ghosh <i>et al.</i> , 1985
Unidentified aphids	<i>Helianthus</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Sinapis</i> sp.	Agarwala <i>et al.</i> , 1984
11. <i>Betasyrphus</i> sp.		
<i>Aphis craccivora</i>	<i>Cajanus cajan</i>	Chinnu <i>et al.</i> , 2023
<i>Aphis nerii</i>	<i>Calotropis gigantea</i>	Chinnu <i>et al.</i> , 2023
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Chinnu <i>et al.</i> , 2023

<i>Myzus persicae</i>	-	Bisht <i>et al.</i> , 2006
	<i>Brassica juncea</i>	Chinnu <i>et al.</i> , 2023
	<i>Prunus persica</i>	Bisht <i>et al.</i> , 2006
	<i>Rosa</i> spp.	Bisht <i>et al.</i> , 2006
12. <i>Chrysotoxum baphyrum</i> (Walker, 1849)		
<i>Tetraneura javensis</i>	<i>Saccharum officinarum</i>	Patil <i>et al.</i> , 2013
13. <i>Dideopsis aegrota</i> (Fabricius, 1805), Syn. <i>Asarkina aegrota</i> (Fabricius)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Radhakrishnan and Murlidharan (1995; 1993; 1991(1995))
<i>Aphis odinae</i>	<i>Anacardium occidentale</i>	Maruthadurai and Singh, 2017; Vidya and Rajanna, 2014
<i>Aphis craccivora</i>	<i>Lablab purpureus</i>	Joshi <i>et al.</i> , 1997
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Vicia faba</i>	Ghorpade, 1981
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> , 1999b
<i>Aphis gossypii</i>	<i>Psidium</i> sp.	Baskaran <i>et al.</i> , 2009
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis spiraeicola</i>	<i>Artemisia vulgaris</i>	Agarwala <i>et al.</i> , 1979; Rao, 1969
	<i>Bidens pilosa</i>	Agarwala <i>et al.</i> , 1979; Agarwala <i>et al.</i> , 1984
<i>Ceratovacuna lanigera</i>	<i>Saccharum officinarum</i>	Rabindra <i>et al.</i> , 2002
<i>Hyadaphis coriandari</i>	<i>Foeniculum vulgare</i>	Udayakumar <i>et al.</i> , 2023a
<i>Myzus persicae</i>	<i>Beta vulgaris</i>	Kumar <i>et al.</i> , 2015; Parween <i>et al.</i> , 2023
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Rhopalosiphum maidis</i>	<i>Beta vulgaris</i>	Kumar <i>et al.</i> , 2015; Kumar and Ahmad, 2017
14. <i>Epistrophe griseocincta</i> (Brunetti, 1923)		
<i>Rhopalosiphum maidis</i>	<i>Hordeum vulgare</i>	Agarwala <i>et al.</i> , 1979; Agarwala and Raychaudhari, 1981
15. <i>Episyrphus balteatus</i> (De Geer, 1776), Syn. <i>Syrphus balteatus</i> (De Geer)		
<i>Acyrtosiphon pisum</i>	<i>Pisum sativum</i>	Bhat and Bhagat, 2017
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Bisht <i>et al.</i> , 2006; Devi <i>et al.</i> , 2010; Radhakrishnan and Murlidharan (1995; 1993; 1991(1995))
<i>Aphis</i> sp.	<i>Gossypium</i> sp. (Cotton)	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1984
	<i>Zea mays</i>	Agarwala <i>et al.</i> , 1984
	various grasses	Agarwala <i>et al.</i> , 1984
<i>Aphis citricidus</i>	<i>Citrus</i> sp.	Ghosh <i>et al.</i> , 1985
<i>Aphis craccivora</i>	-	Rao, 1969
	<i>Cajanus cajan</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Lablab purpureus</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis fabae</i>	-	Ghorpade, 1981; Rao 1969
<i>Aphis glycines</i>	<i>Glycine max</i>	Singh and Singh, 2000

<i>Aphis gossypii</i>	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
	<i>Chrysanthemum</i> sp.	Samuel <i>et al.</i> , 2013
	<i>Cajanus cajan</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Capsicum annum</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
	<i>Chrysanthemum</i> spp.	Bisht <i>et al.</i> , 2006
	<i>Coriandrum sativum</i>	Bisht <i>et al.</i> , 2006
	<i>Cucumis sativus</i>	Bisht <i>et al.</i> , 2006 ; Bhat and Bhagat, 2017; Rao, 1969
	<i>Cucurbita maxima</i>	Bhat and Bhagat, 2017
	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
	<i>Solanum betaceum (Cyphomandra betaceae)</i>	Agarwala <i>et al.</i> , 1979
	<i>Lagenaria siceraria</i>	Bhat and Bhagat, 2017
	<i>Psidium</i> sp.	Baskaran <i>et al.</i> , 2009
	<i>Solanum melongena</i>	Bhat and Bhagat, 2017; Satpathi and Mandal 2006
<i>Solanum tuberosum</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017	
<i>Aphis kurosawai</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
<i>Aphis pomi</i>	<i>Malus</i> sp.	Khan <i>et al.</i> , 2016; Kumari, 2020
<i>Aphis punicae</i>	<i>Punica granatam</i>	Mohiuddin <i>et al.</i> , 2019
<i>Aphis solanella</i>	<i>Capsicum frutescens</i>	Chaudhary and Singh, 2012
<i>Aphis spiraeicola</i>	<i>Chromolaena odorata (Eupatorium odoratum)</i>	Agarwala <i>et al.</i> , 1984
	<i>Cosmos bipinnatus</i>	Dubey and Singh, 2011
	<i>Solanum nigrum</i>	Ghosh <i>et al.</i> , 1985
	<i>Sonchus</i> sp.	Chaudhary and Singh, 2012
<i>Brachycaudus helichrysi</i>	<i>Anaphalis margaritacea</i>	Ghosh <i>et al.</i> , 1985
	<i>Erigeron bonariensis</i>	Ghosh <i>et al.</i> , 1985
	<i>Prunus amygdalus</i>	Ghosh <i>et al.</i> , 1985
	<i>Prunus persica</i>	Ghosh <i>et al.</i> , 1985
<i>Brevicoryne brassicae</i>	<i>Brassica caulorapa</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i>	Bhat and Bhagat, 2017
	<i>Brassica oleracea</i> var. <i>acephala</i>	Bhat and Bhagat, 2017
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989, Bhat and Bhagat, 2017; Makhmoor and Verma, 1987
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017; Devi <i>et al.</i> , 1996
	<i>Brassica oleracea</i> var. <i>gongylodes</i>	Bhat and Bhagat, 2017
	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006
	<i>Brassica juncea</i>	Singh <i>et al.</i> , 2020
<i>Raphanus sativus</i>	Bisht <i>et al.</i> , 2006	
<i>Cavariella aegopodii</i>	<i>Daucus carota</i>	Bhat and Bhagat, 2017
<i>Ceratovacuna lanigera</i>	<i>Saccharum officinarum</i>	Rabindra <i>et al.</i> , 2002
<i>Cervaphis rappardi indica</i>	<i>Cajanus cajan</i>	Shantibala <i>et al.</i> , 1997
<i>Uroleucon achilleae</i>	-	Agarwala <i>et al.</i> , 1984
<i>Epipemphigus imaicus</i>	<i>Populus alba</i>	Ghosh <i>et al.</i> , 1985
	<i>Populus ciliata</i>	Ghosh <i>et al.</i> , 1985
<i>Epipemphigus</i> sp.	<i>Populus citiata</i>	Bisht <i>et al.</i> , 2006
<i>Eriosoma lanigerum</i>	<i>Malus domestica</i>	Bisht <i>et al.</i> , 2006

<i>Eumyzus hydrangi</i>	<i>Hydrangea scandens</i>	Ghosh <i>et al.</i> , 1985
<i>Eumyzus pruni</i>	<i>Prunus cornuta</i>	Ghosh <i>et al.</i> , 1985
<i>Hayhurstia atriplicis</i>	<i>Chenopodium album</i>	Ghosh <i>et al.</i> , 1985
<i>Hyadaphis coriandari</i>	<i>Coriandrum sativum</i>	Bisht <i>et al.</i> , 2006
	<i>Foeniculum vulgare</i>	Udayakumar <i>et al.</i> , 2023a
<i>Hyalopterus pruni</i>	<i>Prunus persica</i>	Varatharajan <i>et al.</i> , 1991
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Agarwala <i>et al.</i> , 1989; Bhat and Bhagat, 2017; Bisht <i>et al.</i> , 2006; Kumar <i>et al.</i> , 2015; Samuel <i>et al.</i> , 2006; Samuel <i>et al.</i> , 2013; Borah and Dutta., 2010
	<i>Brassica juncea</i> var. <i>rugosa</i>	Devi <i>et al.</i> , 2002
	<i>Brassica caulotrappa</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica nigra</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1989; Devi <i>et al.</i> , 1996; Devi <i>et al.</i> , 2011; Devi <i>et al.</i> , 2011; Samuel <i>et al.</i> , 2005
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
	<i>Triticum aestivum</i>	Kumar <i>et al.</i> , 2015
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Macrosiphoniella pseudoartemisiae</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
<i>Macrosiphoniella sanborni</i>	<i>Chrysanthemum indicum</i>	Kumar <i>et al.</i> , 2015
	<i>Chrysanthemum</i> spp.	Agarwala <i>et al.</i> , 1984; Bisht <i>et al.</i> , 2006; Samuel <i>et al.</i> , 2005
<i>Melanaphis sacchari</i>	<i>Sorghum bicolor</i>	Chaudhary and Singh, 2012
	<i>Zea mays</i>	Agarwala <i>et al.</i> , 1979
<i>Melanaphis</i> sp.	<i>Pyrus pashia</i>	Ghosh <i>et al.</i> , 1985
<i>Myzus dycei</i>	<i>Urtica dioica</i>	Ghosh <i>et al.</i> , 1985
<i>Myzus persicae</i>	<i>Brassica caulotrappa</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica juncea</i>	Soni <i>et al.</i> , 2021
	<i>Brassica rapa</i>	Bijaya <i>et al.</i> , 2001
	<i>Brassica nigra</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2006; Bisht <i>et al.</i> , 2006; Devi <i>et al.</i> , 1996; Singh <i>et al.</i> , 1994
	<i>Brassica oleracea gongylodes</i>	Devi <i>et al.</i> , 1999
	<i>Capsicum annum</i>	Bhat and Bhagat, 2017
	<i>Cucumis sativus</i>	Agarwala <i>et al.</i> , 1979
	<i>Cucurbita maxima</i>	Bhat and Bhagat, 2017
	<i>Solanum betaceum</i>	Agarwala <i>et al.</i> , 1984
	<i>Prunus persica</i>	Bisht <i>et al.</i> , 2006
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Solanum tuberosum</i>	Agarwala <i>et al.</i> , 1979; Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
<i>Solanum lycopersicum</i>	Bhat and Bhagat, 2017	
<i>Prociphilu</i> sp.	<i>Lonicera quinquelocularis</i>	Ghosh <i>et al.</i> , 1985
<i>Rhopalosiphum maidis</i>	<i>Cenchrus americanus</i>	Chaudhary and Singh, 2012
	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
	<i>Zea mays</i>	Kumar <i>et al.</i> , 2015; Kumar and Ahmad, 2017
<i>Rhopalosiphum padi</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006; Kumar <i>et al.</i> , 2015; Kumar and Ahmad, 2017

<i>Sappaphis</i> sp.	<i>Cotoneaster bacillaris</i>	Ghosh <i>et al.</i> , 1985
<i>Shinjia orientalis</i>	<i>Pteris</i> sp.	Ghosh <i>et al.</i> , 1985
<i>Sitobion avenae</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
<i>Sitobion miscanthi</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006; Kumar <i>et al.</i> , 2015
<i>Sitobion rosaeiformis</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1984; Bisht <i>et al.</i> , 2006
	<i>Rosa bourboniana</i>	Kakkar and Sood, 1989
	<i>Rosa indica</i>	Chaudhary and Singh, 2012
16. <i>Episyrphus viridaureus</i> (Wiedmann, 1824). Syn. <i>Episyrphus alternans</i> (Macquart, 1842)		
<i>Brevicoryne brassicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Agarwala <i>et al.</i> , 1989; Kumar <i>et al.</i> , 1987
	<i>Brassica juncea</i>	Manpoong <i>et al.</i> , 2016
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1989
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
<i>Melanaphis sacchari</i>	<i>Zea mays</i>	Agarwala <i>et al.</i> , 1984
<i>Myzus persicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
<i>Rhopalosiphum padi</i>	<i>Triticum aestivum</i>	Dixit <i>et al.</i> , 2019
<i>Sitobion avenae</i>	<i>Triticum aestivum</i>	Dixit <i>et al.</i> , 2019
17. <i>Eristalinus aeneus</i> (Scopoli, 1763)		
<i>Aphis pomi</i>	<i>Malus</i> sp. (Apple plant)	Khan and Shah, 2018
18. <i>Eristalinus quinquelineatus</i> (Fabricius, 1781)		
<i>Myzus persicae</i>	<i>Capsicum annuum</i>	Kaur and Sangha, 2016
19. <i>Eristalis cerealis</i> (Fabricius, 1805)		
<i>Aphis pomi</i>	<i>Malus</i> sp. (Apple plant)	Khan and Shah, 2018
20. <i>Eristalis tenax</i> (Linnaeus, 1758)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Sharma <i>et al.</i> , 2006
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis pomi</i>	<i>Malus</i> sp. (Apple plant)	Khan <i>et al.</i> , 2016
<i>Lipaphis erysimi</i>	<i>Brassica juncea</i>	Kashyap <i>et al.</i> , 2018
<i>Macrosiphum</i> sp.	<i>Rosa</i> spp.	Bisht <i>et al.</i> , 2006
<i>Myzus persicae</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
21. <i>Eumerus albifrons</i> (Walker, 1852)		
<i>Aphis craccivora</i>	<i>Vigna unguiculata</i>	Mishra <i>et al.</i> , 2013
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i>	Mandal and Patnaik, 2006
<i>Lipaphis erysimi</i>	<i>Brassica oleracea</i>	Mandal and Patnaik, 2006
<i>Myzus persicae</i>	<i>Brassica oleracea</i>	Mandal and Patnaik, 2006
22. <i>Eumerus nr. albifrons</i> (Walker, 1852)		
<i>Melanaphis sacchari</i>	<i>Sorghum bicolor</i>	Patnaik <i>et al.</i> , 1977
	<i>Zea mays</i>	Patnaik <i>et al.</i> , 1977
23. <i>Eupeodes bucculatus</i> (Rondani, 1857), Syn. <i>Eupeodes frequens</i> (Matsmura, 1917), Syn. <i>Metasyrphus latilunulatus</i> (Collin, 1931)		
<i>Aphis fabae</i>	<i>Solanum nigrum</i>	Sood <i>et al.</i> , 2007
<i>Brevicoryne brassicae</i>	<i>Brassica juncea</i>	Singh <i>et al.</i> , 2020
	<i>Brassica oleracea</i>	Sharma and Bhalla, 1991
	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
<i>Myzus persicae</i>	<i>Brassica oleracea</i>	Sharma <i>et al.</i> , 2020
	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987

24. <i>Eupeodes confrater</i> (Wiedemann, 1830), Syn. <i>Metasyrphus confrater</i> (Wiedemann, 1830), Syn. <i>Syrphus confrater</i>		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Devi <i>et al.</i> , 2010
<i>Aphis craccivora</i>	-	Agarwala <i>et al.</i> , 1984
	<i>Lablab purpureus</i>	Ghosh <i>et al.</i> , 1981
	<i>Phaseolus vulgaris</i>	Bhat and Bhagat, 2017
	<i>Rumex acetosella</i>	Bhat and Bhagat, 2017
	<i>Solanum lycopersicum</i>	Bhat and Bhagat, 2017
<i>Aphis fabae</i>	-	Agarwala <i>et al.</i> , 1984
	<i>Solanum nigrum</i>	Sood <i>et al.</i> , 2007
<i>Aphis gossypii</i>	<i>Biden pilosa</i>	Agarwala <i>et al.</i> , 1979
	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
	<i>Chrysanthemum</i> sp.	Chaudhary and Singh, 2012
	<i>Cucumis sativus</i>	Bisht <i>et al.</i> , 2006
<i>Aphis spiraeicola</i>	<i>Biden pilosa</i>	Agarwala <i>et al.</i> , 1979
<i>Brachycaudus helichrysi</i>	<i>Prunus amygdalus</i>	Ghosh <i>et al.</i> , 1985
	<i>Prunus persica</i>	Ghosh <i>et al.</i> , 1985
<i>Brevicoryne brassicae</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006; Kumar <i>et al.</i> , 1987;
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Makhmoor and Verma 1987
	<i>Brassica oleracea</i> var. <i>capitata</i>	Devi <i>et al.</i> , 1996
<i>Ceratovacuna lanigera</i>	<i>Saccharum officinarum</i>	Sarma <i>et al.</i> , 2007
<i>Cervaphis rappardi indica</i>	<i>Cajanus cajan</i>	Shantibala <i>et al.</i> , 1997
<i>Epipemphigus imaicus</i>	<i>Populus ciliata</i>	Ghosh <i>et al.</i> , 1985
<i>Eriosoma lanigerum</i>	<i>Malus sylvestris</i>	Agarwala <i>et al.</i> , 1984
	<i>Malus domestica</i>	Bisht <i>et al.</i> , 2006
<i>Lipaphis erysimi</i>	-	Agarwala <i>et al.</i> , 1984
	<i>Brassica nigra</i>	Ghosh <i>et al.</i> , 1981
	<i>Brassica rapa</i>	Agarwala <i>et al.</i> , 1989; Bhat and Bhagat, 2017; Kumar <i>et al.</i> , 1987
	<i>Brassica juncea</i>	Singh and Singh, 2013
	<i>Brassica juncea</i> var. <i>rugosa</i>	Devi <i>et al.</i> , 2002
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1989; Devi <i>et al.</i> , 1996
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Macrosiphum rosae</i>	<i>Rosa</i> spp.	Verma and Sharma, 2006
<i>Macrosiphoniella sanborni</i>	-	Agarwala <i>et al.</i> , 1984
<i>Myzus persicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2006; Devi <i>et al.</i> , 1996; Singh <i>et al.</i> , 1994
	<i>Brassica oleracea</i> gongylodes	Devi <i>et al.</i> , 1999
	<i>Tagetes erecta</i>	Bhagat <i>et al.</i> , 2018
<i>Sitobion miscanthi</i>	<i>Triticum</i> spp.	Agarwala <i>et al.</i> , 1984
<i>Tuberculatus nervatus</i>	<i>Quercus serrata</i>	Singh <i>et al.</i> , 1995
<i>Uroleucon carthami</i>	<i>Carthamus tinctorius</i>	Jha <i>et al.</i> , 1998
Unidentified	<i>Brassica</i> spp.	Agarwala <i>et al.</i> , 1984
	<i>Gossypium</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Sinapis</i> spp.	Agarwala <i>et al.</i> , 1984
	<i>Triticum</i> spp.	Agarwala <i>et al.</i> , 1984
25. <i>Eupeodes corollae</i> (Fabricius, 1794), Syn. <i>Metasyrphus corolle</i> (Fabricius), Syn. <i>Syrphus corollae</i> (Fabricius)		

<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Sharma <i>et al.</i> , 2006
<i>Aphis gossypii</i>	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
<i>Aphis pomi</i>	<i>Malus domestica</i>	Bhagat <i>et al.</i> , 1988
<i>Brachycaudus helichrysi</i>	<i>Prunus persica</i>	Ghosh <i>et al.</i> , 1985
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>botrytis</i>	Makhmoor and Verma, 1987
	<i>Brassica juncea</i>	Ghosh <i>et al.</i> , 1985
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1981
<i>Eriosoma lanigerum</i>	<i>Malus domestica</i>	Ghosh <i>et al.</i> , 1985
<i>Hyperomyzus carduellinus</i>	<i>Sonchus oleraceus</i>	Ghosh <i>et al.</i> , 1985
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
	<i>Brassica napus</i>	Bhat and Bhagat, 2017
<i>Macrosiphum</i> sp.	<i>Rosa</i> spp.	Bisht <i>et al.</i> , 2006
<i>Myzus dycei</i>	<i>Urtica dioica</i>	Ghosh <i>et al.</i> , 1985
<i>Myzus persicae</i>	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1981
26. <i>Eupeodes latifasciatus</i> (Macquart, 1829)		
<i>Chaitophorus kapuri</i>	<i>Populus ciliata</i>	Ghosh <i>et al.</i> , 1985
<i>Macrosiphoniella pseudoartemisiae</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
27. <i>Eupeodes</i> sp.		
<i>Brevicoryne brassicae</i>	<i>Brassica napus</i> var. <i>napus</i>	Lakhanpal and Raj, 1998
<i>Lipaphis erysimi</i>	<i>Brassica napus</i> var. <i>napus</i>	Lakhanpal and Raj, 1998
<i>Myzus persicae</i>	<i>Brassica napus</i> var. <i>napus</i>	Lakhanpal and Raj, 1998
28. <i>Harmonia dimidiata</i> (Fabricius, 1781)		
<i>Eriosoma lanigerum</i>	<i>Malus domestica</i>	Chakrabarti <i>et al.</i> , 1988
29. <i>Ischiodon scutellaris</i> (Fabricius, 1805), Syn. <i>Xanthogramma scutellare</i>		
<i>Acyrtosiphon pisum</i>	<i>Pisum sativum</i>	Agarwala <i>et al.</i> , 1979
<i>Acyrtosiphon rubi</i>	<i>Rubus ellipticus</i>	Das and Raychaudhuri, 1983
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Bisht <i>et al.</i> , 2006; Radhakrishnan and Murlidharan (1995; 1993; 1991(1995);
	<i>Camellia sinensis</i>	Devi <i>et al.</i> , 2010
<i>Aphis craccivora</i>	<i>Cajanus cajan</i>	Joshi <i>et al.</i> , 1997
	<i>Lablab purpureus</i>	Agarwala <i>et al.</i> , 1984; Ahmad <i>et al.</i> , 2020; Joshi <i>et al.</i> , 1997; Kumar <i>et al.</i> , 2015;
	<i>Phaseolus vulgaris</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015;
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Rumex acetosella</i>	Bhat and Bhagat, 2017
	<i>Vicia faba</i>	Agarwala <i>et al.</i> , 1984
	<i>Vigna mungo</i>	Ahmad <i>et al.</i> , 2020
	<i>Vigna radiata</i>	Kumar <i>et al.</i> , 2015
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> , 1997, Joshi <i>et al.</i> , 1999a
Unknown	Agarwala <i>et al.</i> , 1979	
<i>Aphis fabae</i>	<i>Luffa aegyptica</i>	Kumar <i>et al.</i> , 2015
<i>Aphis glycines</i>	<i>Glycine max</i>	Singh and Singh, 2000

<i>Aphis gossypii</i>	<i>Capsicum annum</i>	Bisht <i>et al.</i> , 2006
	<i>Abelmoschus esculentus</i>	Udayakumar <i>et al.</i> , 2023b
	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
	<i>Cajanus cajan</i>	Chaudhary and Singh, 2012
	<i>Chromolaena odorata</i>	Chinnu <i>et al.</i> , 2023
	<i>Coccinea grandis</i>	Ahmad <i>et al.</i> , 2020
	<i>Coccinia</i> sp.	Kumar <i>et al.</i> , 2015
	<i>Croton</i> sp.	Ahmad <i>et al.</i> , 2020
	<i>Cucumis sativus</i>	Chinnu <i>et al.</i> , 2023
	<i>Cucumis</i> sp.	Bisht <i>et al.</i> , 2006
	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
	<i>Gossypium hirsutum</i>	Joshi <i>et al.</i> , 1999a
	<i>Gossypium</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Hibiscus rosasinensis</i>	Kumar <i>et al.</i> , 2015; Ahmad <i>et al.</i> , 2020
	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Luffa aegyptica (Luffa cylindrica)</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Momordica charantia</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Phaseolus vulgaris</i>	Bisht <i>et al.</i> , 2006
<i>Psidium guajava</i>	Mani and Krishnamoorthy, 1989; Baskaran <i>et al.</i> , 2009; Bisht <i>et al.</i> , 2006	
<i>Solanum melongena</i>	Agarwala <i>et al.</i> , 1979; Agarwala <i>et al.</i> , 1984; Satpathi, 1999; Satpathi and Mandal, 2006	
<i>Solanum tuberosum</i>	Nonita <i>et al.</i> , 2002	
<i>Aphis nerii</i>	<i>Calotropis gigantea</i>	Joshi <i>et al.</i> , 1999a
	<i>Calotropis procera</i>	Chaudhary and Singh, 2012
<i>Aphis odinae</i>	<i>Anacardium occidentale</i>	Maruthadurai and Singh, 2017; Vidya and Rajanna, 2014
<i>Aphis ruborum</i>	<i>Rubus ellipticus</i>	Ghosh <i>et al.</i> , 1985
<i>Aphis solanella</i>	<i>Capsicum frutescens</i>	Chaudhary and Singh, 2012
<i>Aphis spiraecola</i>	<i>Artemisia vulgaris</i>	Agarwala <i>et al.</i> , 1984
	<i>Cosmos bipinnatus</i>	Dubey and Singh, 2011
	<i>Spiraea hypericifolia</i>	Chaudhary and Singh, 2012
	Unknown	Agarwala <i>et al.</i> , 1979
<i>Aphis verbasci</i>	-	Agarwala <i>et al.</i> , 1984
	<i>Verbascum thapsus</i>	Ghosh <i>et al.</i> , 1985
<i>Brevicoryne brassicae</i>	<i>Brassica juncea</i>	Soni <i>et al.</i> , 2021
	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica caulorapa</i>	Agarwala <i>et al.</i> , 1979
	<i>Brassica nigra</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i> var. <i>capitata</i>	Devi <i>et al.</i> , 1996
	<i>Raphanus sativus</i>	Ghosh <i>et al.</i> , 1985
<i>Capitophorus formosartemisiae</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
<i>Ceratovacuna lanigera</i>	<i>Saccharum officinarum</i>	Patil <i>et al.</i> , 2006
<i>Hyadaphis coriandari</i>	<i>Coriandrum sativum</i>	Bisht <i>et al.</i> , 2006
	<i>Foeniculum vulgare</i>	Udayakumar <i>et al.</i> , 2023a

<i>Hyalopterus pruni</i>	<i>Prunus persica</i>	Varatharajan <i>et al.</i> , 1991
<i>Hyperomyzus carduellinus</i>	<i>Lactuca virosa</i>	Udayakumar <i>et al.</i> , 2023b
<i>Hysteroneura setariae</i>	<i>Cyperus rotundus</i>	Chaudhary and Singh, 2012
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Agarwala <i>et al.</i> , 1989; Bhat and Bhagat, 2017; Kumar <i>et al.</i> , 1987
	<i>Brassica caulorapa</i>	Agarwala <i>et al.</i> , 1979
	<i>Brassica juncea</i>	Joshi <i>et al.</i> , 1999a; Singh and Singh 2013
	<i>Brassica juncea</i> var. <i>rugosa</i>	Devi <i>et al.</i> , 2002
	<i>Brassica nigra</i>	Agarwala <i>et al.</i> , 1984
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Agarwala <i>et al.</i> , 1989
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1989; Devi <i>et al.</i> , 1996;
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1989
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Macrosiphum rosae</i>	<i>Rosa indica</i>	Ali <i>et al.</i> , 2009
<i>Melanaphis sacchari</i>	<i>Sorghum bicolor</i>	Chaudhary and Singh, 2012
<i>Myzus persicae</i>	<i>Brassica juncea</i>	Soni <i>et al.</i> , 2021
	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica oleracea</i> var. <i>capitata</i>	Agarwala <i>et al.</i> , 1984; Bijaya <i>et al.</i> , 2006; Devi <i>et al.</i> , 1996; Singh <i>et al.</i> , 1994;
	<i>Brassica oleracea gongylodes</i>	Devi <i>et al.</i> , 1999
	<i>Hibiscus rosasinensis</i>	Kumar <i>et al.</i> , 2015
	<i>Hibiscus sabdariffa</i>	Parween <i>et al.</i> , 2023
	<i>Nicotiana tabacum</i>	Agarwala <i>et al.</i> , 1984
	<i>Prunus persica</i>	Bisht <i>et al.</i> , 2006
	<i>Solanum melongena</i>	Agarwala <i>et al.</i> , 1979; Satpathi and Mandal, 2006
	<i>Solanum tuberosum</i>	Agarwala <i>et al.</i> , 1984; Bisht <i>et al.</i> , 2006
<i>Myzus sorbi</i>	<i>Sorbaria tomentosa</i>	Ghosh <i>et al.</i> , 1985
<i>Phorodon cannabis</i>	<i>Cannabis sativa</i>	Ghosh <i>et al.</i> , 1985
<i>Rhopalosiphum maidis</i>	<i>Zea mays</i>	Joshi <i>et al.</i> , 1999a; Kumar <i>et al.</i> , 2015; Singh and Mishra, 1988; Swaminathan <i>et al.</i> , 2015; Kumar and Ahmad 2017
	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
<i>Rhopalosiphum nymphaeae</i>	<i>Verbena laciniata</i>	Ali <i>et al.</i> , 2009
<i>Rhopalosiphum padi</i>	<i>Triticum aestivum</i> , <i>Zea mays</i>	Bisht <i>et al.</i> , 2006
<i>Sitobion avenae</i>	<i>Triticum aestivum</i>	Dixit <i>et al.</i> , 2019
<i>Sitobion miscanthi</i>	<i>Triticum aestivum</i>	Kumar <i>et al.</i> , 2015
<i>Sitobion rosaeiformis</i>	<i>Rosa indica</i>	Chaudhary and Singh, 2012
<i>Uroleucon (Uromelan) compositae</i>	<i>Carthamus tinctorius</i>	Joshi <i>et al.</i> , 1999a
30. Ischiodon sp.		
<i>Uroleucon carthami</i>	<i>Carthamus tinctorius</i>	Jha <i>et al.</i> , 1998
31. Melanostoma orientale (Wiedemann, 1824)		
<i>Aphis clematidis</i>	<i>Clematis buchananiana</i>	Ghosh <i>et al.</i> , 1985
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Brevicoryne brassicae</i>	<i>Brassica juncea</i>	Ghosh <i>et al.</i> , 1985
	<i>Brassica oleracea</i>	Ghosh <i>et al.</i> , 1985
	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006

<i>Lipaphis erysimi</i>	<i>Brassica juncea</i>	Sharma <i>et al.</i> , 1997
	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006
	<i>Sinapis</i> sp.	Agarwala <i>et al.</i> , 1984
<i>Melanophis sacchari</i>	<i>Saccharum officinarum</i>	Agarwala <i>et al.</i> , 1979
<i>Myzus persicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 2015
	<i>Solanum melongena</i>	Parween <i>et al.</i> , 2023
<i>Rhopalosiphum maidis</i>	<i>Hordeum vulgare</i>	Agarwala <i>et al.</i> , 1979
	<i>Triticum aestivum</i>	Ghosh <i>et al.</i> , 1985
<i>Sitobion rosaeiformis</i>	<i>Rosa</i> spp.	Agarwala <i>et al.</i> , 1984
32. <i>Melanostoma univittatum</i> (Wiedemann, 1824)		
<i>Acyrtosiphon pisum</i>	<i>Pisum sativum</i>	Bhat and Bhagat, 2017
<i>Aphis craccivora</i>	<i>Phaseolus vulgaris</i>	Bhat and Bhagat, 2017
	<i>Rumex nepalensis</i>	Bhat and Bhagat, 2017
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
	<i>Cucumis sativus</i>	Bisht <i>et al.</i> , 2006
33. <i>Microdon bellus</i> (Brunetti, 1923)		
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Myzus persicae</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
34. <i>Palpada interrupta</i> (Fabricius, 1805), Syn. <i>Eristalis interruptus</i> (Fabricius, 1805)		
<i>Aphis pomi</i>	<i>Malus</i> sp. (Apple plant)	Khan <i>et al.</i> , 2016
35. <i>Paragus politus</i> (Wiedemann, 1830), Syn. <i>Paragus indicus</i> (Brunetti, 1908)		
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Aphis spiraecola</i>	<i>Bidens pilosa</i>	Raychaudhuri <i>et al.</i> , 1978
<i>Myzus persicae</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
36. <i>Paragus serratus</i> (Fabricius, 1805)		
<i>Acyrtosiphon pisum</i>	<i>Pisum sativum</i>	Chaudhary and Singh, 2012
<i>Aphis aurantii</i>	<i>Camellia</i> sp.	Devi <i>et al.</i> , 2010
<i>Aphis citricidus</i>	<i>Citrus</i> sp.	Chinnu <i>et al.</i> , 2023
<i>Aphis craccivora</i>	<i>Cajanus cajan</i>	Joshi <i>et al.</i> , 1997
	<i>Cirsium wallichii</i>	Agarwala <i>et al.</i> , 1984
	<i>Cyamopsis tetragonoloba</i>	Chinnu <i>et al.</i> , 2023
	<i>Gliricidia maculata</i>	Chinnu <i>et al.</i> , 2023
	<i>Lablab purpureus</i>	Ahmad <i>et al.</i> , 2020; Joshi <i>et al.</i> , 1997; Kumar <i>et al.</i> , 2015
	<i>Phaseolus vulgaris</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Vicia faba</i>	Raychaudhuri <i>et al.</i> , 1978
	<i>Vigna mungo</i>	Ahmad <i>et al.</i> , 2020
	<i>Vigna radiata</i>	Kumar <i>et al.</i> , 2015
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> (1997, 1999a)
<i>Aphis glycines</i>	<i>Glycine max</i>	Singh and Singh, 2000
<i>Aphis gossypii</i>	<i>Ageratum conyzoides</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
	<i>Cajanus cajan</i>	Kumar <i>et al.</i> , 2015
	<i>Gossypium hirsutum</i>	Joshi <i>et al.</i> , 1999
	<i>Hibiscus rosasinensis</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015

	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Psidium guajava</i>	Baskaran <i>et al.</i> , 2009; Mani and Krishnamoorthy, 1989
	<i>Solanum melongena</i>	Devi <i>et al.</i> , 2008
<i>Aphis nerii</i>	<i>Calotropis gigantea</i>	Joshi <i>et al.</i> , 1999
	<i>Nerium oleander</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
<i>Aphis odinae</i>	<i>Anacardium occidentale</i>	Vidya and Rajanna, 2014; Maruthadurai and Singh, 2017
<i>Aphis spiraeicola</i>	<i>Ageratum conyzoides</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
	<i>Lagenaria siceraria</i>	Ahmad <i>et al.</i> , 2020; Kumar <i>et al.</i> , 2015
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i>	Singh <i>et al.</i> , 2002
<i>Hyadaphis coriandari</i>	<i>Foeniculum vulgare</i>	Udayakumar <i>et al.</i> , 2023a
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bhat and Bhagat, 2017
	<i>Brassica juncea</i>	Joshi <i>et al.</i> , 1999
	<i>Brassica juncea</i> var. <i>rugosa</i>	Devi <i>et al.</i> , 2002
	<i>Brassica nigra</i>	Ghosh <i>et al.</i> , 1981
<i>Myzus persicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2006
	<i>Brassica rapa</i>	Bijaya <i>et al.</i> , 2001
	<i>Prunus persica</i>	Bisht <i>et al.</i> , 2006
<i>Rhopalosiphum maidis</i>	<i>Zea mays</i>	Joshi <i>et al.</i> , 1999
<i>Rhopalosiphum nymphaeae</i>	<i>Solanum tuberosum</i>	Kumar and Ahmad, 2017
<i>Tetraneura nigriabdominalis</i>	<i>Cicer arietinum</i>	Agarwala <i>et al.</i> , 1984
	<i>Citrullus lanatus</i>	Agarwala <i>et al.</i> , 1984
	<i>Gossypium</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Helianthus tuberosus</i>	Agarwala <i>et al.</i> , 1984
	<i>Panicum</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Phyllanthus emblica</i>	Agarwala <i>et al.</i> , 1984
	<i>Pisum</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Saccharum officinarum</i>	Agarwala <i>et al.</i> , 1984
	<i>Solanum</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Zea mays</i>	Agarwala <i>et al.</i> , 1984
<i>Uroleucon compositae</i>	<i>Carthamus tinctorius</i>	Joshi <i>et al.</i> , 1999
37. <i>Paragus tibialis</i> (Fallen, 1817)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Radhakrishnan and Murleedharan (1995; 1993; 1991(1995);
<i>Aphis clematidis simlaensis</i>	<i>Clematis buchaniana</i>	Ghosh <i>et al.</i> , 1985
<i>Aphis craccivora</i>	<i>Phaseolus vulgaris</i>	Bhat and Bhagat, 2017
<i>Aphis fabae</i>	<i>Rumex nepalensis</i>	Ghosh <i>et al.</i> , 1985
<i>Aphis gossypii</i>	<i>Coccinea grandis</i>	Agarwala <i>et al.</i> , 1984
	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
	<i>Gossypium</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Leucas aspera</i>	Agarwala <i>et al.</i> , 1984
<i>Aphis spiraeicola</i>	<i>Bidens pilosa</i>	Agarwala <i>et al.</i> , 1979
<i>Capitophorus formosartemisiae</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
<i>Metopolophium</i> sp.	<i>Stephania hernandiifolia</i>	Das and Raychaudhuri, 1983
<i>Myzus persicae</i>	<i>Nicotiana tabacum</i>	Rao, 1969

	<i>Osbeckia crinita</i>	Agarwala <i>et al.</i> , 1984
<i>Rhopalosiphum maidis</i>	<i>Sorghum bicolor</i>	Chaudhary and Singh, 2012
Unidentified aphid	<i>Centaurea</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Sonchus</i> sp.	Agarwala <i>et al.</i> , 1984
38. <i>Paragus yerburiensis</i> (Stuckenberg, 1954)		
<i>Aphis craccivora</i>	-	Rao, 1969
	<i>Cajanus cajan</i>	Joshi <i>et al.</i> , 1997
	<i>Lablab purpureus</i>	Joshi <i>et al.</i> , 1997
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Vigna unguiculata</i>	Joshi <i>et al.</i> , 1997
<i>Aphis gossypii</i>	<i>Gossypium</i> sp.	Rao, 1969
	<i>Solanum melongena</i>	Satpathi and Mandal (2006)
<i>Aphis spiraeicola</i>	<i>Bidens pilosa</i>	Agarwala <i>et al.</i> , 1979
<i>Aphis odinae</i>	<i>Anacardium occidentale</i>	Vidya and Rajanna, 2014
<i>Myzus persicae</i>	<i>Nicotiana tabacum</i>	Rao, 1969
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
39. <i>Scaeva albomaculata</i> (Macquart, 1842)		
<i>Lipaphis erysimi</i>	-	Rao, 1969
<i>Myzus persicae</i>	-	Rao, 1969
40. <i>Scaeva latimaculata</i> (Brunetti, 1923), Syn. <i>Xanthogramma pruthii</i> (Deoras, 1943)		
<i>Brevicoryne brassicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Hyperomyzus carduellinus</i>	<i>Emilia sonchifolia</i>	Agarwala <i>et al.</i> , 1984
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Raphanus sativus</i>	Sharma <i>et al.</i> , 1997
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Myzus persicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Luffa graveolens</i>	Deoras, 1943
41. <i>Scaeva pyrastris</i> (Linnaeus, 1758)		
<i>Aphis fabae</i>	<i>Solanum nigrum</i>	Sood <i>et al.</i> , 2007
<i>Aphis pomi</i>	<i>Malus domestica</i>	Bhagat <i>et al.</i> , 1988
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>botrytis</i>	Makhmoor and Verma, 1987
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1984
<i>Myzus persicae</i>	<i>Brassica oleracea</i>	Sharma <i>et al.</i> , 2020
	<i>Raphanus sativus</i>	Agarwala <i>et al.</i> , 1984
Unidentified aphid	<i>Brassica</i> spp.	Rao, 1969
42. <i>Scaeva selenitica</i> (Meigen, 1822), Syn. <i>Lasiopticus selenitica</i> (Meigen)		
<i>Acyrtosiphon rubi</i>	<i>Rubus ellipticus</i>	Das and Raychaudhuri, 1983
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bisht <i>et al.</i> , 2006
	<i>Raphanus sativus</i>	Bisht <i>et al.</i> , 2006
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006
	<i>Sinapis</i> sp.	Anand <i>et al.</i> , 1967
<i>Rhopalosiphum maidis</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
43. <i>Sphaerophoria bengalensis</i> (Macquart, 1842)		
<i>Aphis gossypii</i>	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
<i>Aphis punicae</i>	<i>Punica granatam</i>	Mohiuddin <i>et al.</i> , 2019
44. <i>Sphaerophoria indiana</i> (Bigot, 1884)		
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006

<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011
<i>Brevicoryne brassicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011; Devi <i>et al.</i> , 1996;
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011; Devi <i>et al.</i> , 1996;
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011; Devi <i>et al.</i> , 2002;
	<i>Sinapis</i> sp.	Agarwala <i>et al.</i> , 1984
<i>Lipaphis pseudobrassicae</i>	<i>Brassica juncea</i>	Kumar <i>et al.</i> , 1988
<i>Melanaphis sacchari</i>	<i>Sorghum bicolor</i>	Patnaik <i>et al.</i> , 1977
	<i>Zea mays</i>	Patnaik <i>et al.</i> , 1977
<i>Myzus persicae</i>	<i>Brassica rapa</i>	Kumar <i>et al.</i> , 1987
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2006; Bijaya <i>et al.</i> , 2011; Devi <i>et al.</i> , 1996;
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2006; Bijaya <i>et al.</i> , 2011;
	<i>Nicotiana tabacum</i>	Agarwala <i>et al.</i> , 1984
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
Unidentified aphids	<i>Coriandrum</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Gossypium</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Pisum</i> sp.	Agarwala <i>et al.</i> , 1984
	<i>Triticum</i> sp.	Agarwala <i>et al.</i> , 1984
45. <i>Sphaerophoria scripta</i> (Linnaeus, 1758)		
<i>Aphis craccivora</i>	<i>Lablab purpureus</i>	Agarwala <i>et al.</i> , 1979
	<i>Phaseolus vulgaris</i>	Bhat and Bhagat, 2017
	<i>Rumex acetosella</i>	Bhat and Bhagat, 2017
	<i>Solanum lycopersicum</i>	Bhat and Bhagat, 2017
	<i>Solanum tuberosum</i>	Bhat and Bhagat, 2017
<i>Aphis gossypii</i>	<i>Capsicum annum</i>	Agarwala <i>et al.</i> , 1979
	<i>Fagopyrum esculentum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum kashmirianum</i>	Bhat <i>et al.</i> , 1986
	<i>Fagopyrum tataricum</i>	Bhat <i>et al.</i> , 1986
<i>Aphis pomi</i>	<i>Malus</i> sp.	Khan <i>et al.</i> , 2016; Khan and Shah, 2018
<i>Brachycaudus helichrysi</i>	<i>Ageratum conyzoides</i>	Agarwala <i>et al.</i> , 1979
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>Acephala</i>	Bhat and Bhagat, 2017
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bhat and Bhagat, 2017
	<i>Brassica oleracea</i> var. <i>Gongylodes</i>	Bhat and Bhagat, 2017
	<i>Brassica juncea</i>	Ghosh <i>et al.</i> , 1985
	<i>Brassica</i> sp.	Bhat and Bhagat, 2017
	<i>Raphanus sativus</i>	Bisht <i>et al.</i> , 2006
<i>Liosomaphis himalayensis</i>	<i>Berberis asiatica</i>	Ghosh <i>et al.</i> , 1985

<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
	<i>Brassica napus</i>	Bhat and Bhagat, 2017
	<i>Brassica nigra</i>	Ghosh <i>et al.</i> , 1981
<i>Macrosiphum rosae</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1979
<i>Myzus persicae</i>	<i>Solanum tuberosum</i>	Ghosh <i>et al.</i> , 1985
<i>Mollitrichosiphum nandii</i>	<i>Alnus nepalensis</i>	Agarwala <i>et al.</i> , 1979
<i>Sitobion miscanthi</i>	<i>Triticum aestivum</i>	Ghosh <i>et al.</i> , 1985
<i>Sitobion rosaeiformis</i>	<i>Rosa</i> sp.	Agarwala <i>et al.</i> , 1979
46. <i>Sphaerophoria</i> sp.		
<i>Aphis craccivora</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011
<i>Aphis gossypii</i>	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011
<i>Lipaphis erysimi</i>	<i>Brassica oleracea</i> var. <i>botrytis</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica oleracea</i> var. <i>capitata</i>	Bijaya <i>et al.</i> , 2011
	<i>Brassica juncea</i> var. <i>rugosa</i>	Bijaya <i>et al.</i> , 2011; Devi <i>et al.</i> , 2002
	-	Rao, 1969
<i>Myzus persicae</i>	-	Rao, 1969
	<i>Solanum melongena</i>	Satpathi and Mandal, 2006
<i>Sitobion avenae</i>	<i>Triticum aestivum</i>	Dixit <i>et al.</i> , 2019
47. <i>Syrphus fulvifacies</i> (Brunette, 1913)		
<i>Aphis aurantii</i>	<i>Camellia sinensis</i>	Sharma <i>et al.</i> , 2006
<i>Brevicoryne brassicae</i>	<i>Brassica oleracea</i> var. <i>capitata</i>	Bisht <i>et al.</i> , 2006
	<i>Brassica juncea</i>	Ghosh <i>et al.</i> , 1985
<i>Macrosiphoniella pseudoartemisiae</i>	<i>Artemisia vulgaris</i>	Ghosh <i>et al.</i> , 1985
<i>Macrosiphum</i> sp.	<i>Rosa</i> spp.	Bisht <i>et al.</i> , 2006
48. <i>Syrphus</i> sp.		
<i>Aphis gossypii</i>	<i>Chrysanthemum</i> spp.	Bisht <i>et al.</i> , 2006
<i>Lipaphis erysimi</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006; Bhat and Bhagat, 2017
<i>Macrosiphum rosaeiformis</i>	<i>Rosa</i> spp.	Bisht <i>et al.</i> , 2006
<i>Myzus dycei</i>	<i>Urtica</i> sp.	Agarwala <i>et al.</i> , 1984
<i>Myzus persicae</i>	<i>Brassica rapa</i>	Bisht <i>et al.</i> , 2006
<i>Rhopalosiphum maidis</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
<i>Rhopalosiphum padi</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
<i>Sitobion miscanthi</i>	<i>Triticum aestivum</i>	Bisht <i>et al.</i> , 2006
49. <i>Xanthogramma</i> sp.		
<i>Acyrtosiphon pisum</i>	-	Anand <i>et al.</i> , 1967
<i>Acyrtosiphon rubi</i>	<i>Rubus ellipticus</i>	Das and Raychaudhuri, 1983
<i>Hyperomyzus carduellinus</i>	<i>Emilia sonchifolia</i>	Agarwala <i>et al.</i> , 1981a
<i>Lipaphis erysimi</i>	<i>Brassica</i> spp.	Anand <i>et al.</i> , 1967
	<i>Coriandrum</i> sp.	Anand <i>et al.</i> , 1967
	<i>Pisum</i> sp.	Anand <i>et al.</i> , 1967

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