



## A CHECKLIST OF APHELINIDAE (HYMENOPTERA: CHALCIDOIDEA) OF INDIA

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### INTRODUCTION

The family Aphelinidae is a small group of Chalcidoidea, containing 36 genera and more than thousand species globally and a major source of biocontrol agents of economically important pest species (Noyes, 2003). Generally, majority of the aphelinids are known as parasitoids of sternorrhynchous Homoptera. Species of the genera like *Encarsia* Foerster (Polaszek *et al.*, 2004), and *Eretmocerus* Haldeman (Rose and Zolnerowich, 1997) attack Aleyrodidae while the members of the genus *Aphelinus* Dalman attack mostly aphids (Hayat, 1998). Many genera develop by consuming scale- insects belonging to the families Coccidae, Diaspididae, Pseudococcidae, Acleridae, Cerococcidae, Asterolecaniidae, Margarodidae, Tachardiidae, Kermococcidae, Eriococcidae, Lecanodiaspididae, Kermococcidae, Eriococcidae, Lecanodiaspididae and Psyllidae either as endo or as ectoparasitoids (Viggiani, 1984, Polaszek, 1991 and Hayat, 1998).

The genus *Centrodora* Foerster attack eggs of orthopterous (tettigoniids) and homopterous (cercopids) insects. One exception is *C. speciosissima* Stanley that parasitises pupae of dipterous, chalcid and proctotrupid insects. *Centrodora darwini* (Girault) is an extremely polyphagus, facultative hyperparasitoid (Hayat, 1998). Members of the genus *Euryischia* are parasitoids of dipterous larvae/pupae, while species of the genera like *Ablerus* Howard,

*Marietta* Motschulsky and *Promuscidea* Girault are hyperparasitoids (Hayat, 1998). *Euryischomyia washingtoni* Girault is a parasitoid of mealybugs whereas *E. flavithorax* Girault & Dodd is a hyperparasitoid via chalcidoids and braconids (Carvar, 1995) and *Eutrichosomella blattophaga* Girault was reared from blattid ootheca (Girault, 1915). The males of a number species develop as hyperparasitoids of coccoids via their eulophid, aphelinid or encyrtid primary parasitoids. A number of aphelinids are internal parasitoids of the eggs of various Auchenorrhyncha, Reduvidae, Lepidoptera or Orthoptera, whilst very few develop on larvae or pupae of Dryinidae (Hymenoptera) (Viggiani, 1984).

Hayat (1998) in his book on “Aphelinidae of India (Hymenoptera: Chalcidoidea) - A taxonomic revision” provided key to the twenty-one genera and 180 species of aphelinids occurring in India, and in fact he is the major contributor of aphelinid taxonomy in India. Subba Rao (1957, 1970, 1980 and 1984), Subba Rao and Rai (1969), De Bach and Rosen (1976), Rosen and De Bach (1977, 1979 and 1986), Rosen and Rose (1989), Mani (1989), Menakadevi and Manickavasagam (2011 and 2012) and Manickavasagam and Menakadevi (2012) were the other taxonomists who made contributions to the taxonomy of Indian aphelinids.

Hayat (2010, 2011a & b, 2012) published additional aphelinid papers on the genera like,

*Ablerus*, *Coccophagus* Westwood, *Centrodora*, *Encarsia* and *Proaphelinoides* Girault. All aphelinid taxonomy papers with reference to India were reviewed and compiled here as a Checklist which includes a total of 269 species under 24 genera upto December, 2013.

Order HYMENOPTERA

Superfamily CHALCIDOIDEA

Family APHELINIDAE

Genus *Ablerus* Howard, 1894

1. *Ablerus aleuroides* (Husain & Agarwal, 1982)  
*Distribution*: Uttar Pradesh (Husain & Agarwal, 1982).
  2. *Ablerus aligarhensis* (Khan & Shafee, 1976)  
*Distribution*: Uttar Pradesh (Khan & Shafee, 1976).
  3. *Ablerus aonidiellae* Hayat, 1974a  
*Distribution*: Rajasthan (Hayat, 1974a); Uttar Pradesh (Hayat, 1998).
  4. *Ablerus bharathius* (Subba Rao, 1984)  
*Distribution*: Andhra Pradesh, Karnataka, Tamil Nadu and Uttar Pradesh (Hayat, 1998).
  5. *Ablerus chionaspidis* (Howard, 1914)  
*Distribution*: Karnataka, Tamil Nadu and Uttar Pradesh (Hayat, 1986).
  6. *Ablerus connectens* Silvestri, 1927  
*Distribution*: Karnataka (Hayat & Anis, 2004); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
  7. *Ablerus delhiensis* (Lal, 1938)  
*Distribution*: Bihar, Haryana, Madhya Pradesh, Odisha and Uttar Pradesh (Hayat, 1998).
  8. *Ablerus gargarae* Hayat, 1998  
*Distribution*: Tamil Nadu (Hayat, 1998).
  9. *Ablerus inquirenda* Silvestri, 1927  
*Distribution*: Tamil Nadu (Hayat, 1998).
  10. *Ablerus perspeciosus* Girault, 1916  
*Distribution*: Jammu & Kashmir and Uttar Pradesh (Hayat, 1998).
  11. *Ablerus williamsi* (Annecke & Insley, 1970)  
*Distribution*: Assam, Odisha (Hayat & Khan, 2010); Tamil Nadu, Kerala (Menakadevi & Manickavasagam, 2011).
  12. *Ablerus xenex* Hayat, 2010  
*Distribution*: Sikkim (Hayat & Khan, 2010).
- Genus *Aphelinus* Dalman, 1820
13. *Aphelinus abdominalis* (Dalman, 1820)  
*Distribution*: Andhra Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Meghalaya, Punjab, Rajasthan, Tamil Nadu and West Bengal (Hayat, 1998).
  14. *Aphelinus accuminatus* Hayat, 1998  
*Distribution*: Meghalaya (Hayat, 1998).
  15. *Aphelinus albipodus* Hayat & Fatima, 1992  
*Distribution*: Andhra Pradesh, Jammu & Kashmir, Karnataka, Rajasthan and Tamil Nadu (Hayat & Fatima, 1992).
  16. *Aphelinus ancer* Hayat, 1990  
*Distribution*: Karnataka (Hayat, 1990)
  17. *Aphelinus argiope* Walker, 1839  
*Distribution*: Himachal Pradesh and Uttar Pradesh (Hayat, 1986).
  18. *Aphelinus asychis* Walker, 1839  
*Distribution*: Himachal Pradesh, Jammu & Kashmir, Karnataka, Meghalaya, Uttar Pradesh and West Bengal (Hayat, 1986).
  19. *Aphelinus basilicus* Hayat, 1998  
*Distribution*: Andhra Pradesh, Assam,

- Bihar, Goa, Daman & Diu and West Bengal (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
20. *Aphelinus desantisi* Hayat, 1972a  
*Distribution*: Nagaland (Tripathi, 1995); Punjab (Hayat, 1972a); Karnataka, Rajasthan and Uttar Pradesh (Hayat, 1986); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
21. *Aphelinus gossypii* Timberlake, 1924  
*Distribution*: Bihar (Ahmad & Singh 1996); Himachal Pradesh (Thakur *et al.*, 1988); Jammu & Kashmir and Uttar Pradesh (Hayat, 1986).
22. *Aphelinus humilis* Mercet, 1927  
*Distribution*: Uttar Pradesh and West Bengal (Hayat, 1986).
23. *Aphelinus lankaensis* Hayat, 1994  
*Distribution*: Karnataka (Hayat, 1994).
24. *Aphelinus mali* (Haldeman, 1851)  
*Distribution*: Andhra Pradesh, Himachal Pradesh, Jammu & Kashmir, Kerala and Tamil Nadu (Hayat, 1998).
25. *Aphelinus megadontus* Hayat, 1998  
*Distribution*: Sikkim (Hayat, 1998).
26. *Aphelinus polaszeki* Hayat, 1998  
*Distribution*: Himachal Pradesh (Hayat, 1998).
27. *Aphelinus semiflavus* Howard, 1908  
*Distribution*: India (Hayat, 1998).
28. *Aphelinus sharpae* Hayat, 1998  
*Distribution*: Assam and Meghalaya (Hayat, 1998).
- Genus *Aphytis* Howard, 1900
29. *Aphytis alami* Agarwal, 1964  
*Distribution*: Uttar Pradesh (Agarwal, 1964).
30. *Aphytis aligarhensis* Hayat, 1998  
*Distribution*: Uttar Pradesh (Hayat, 1998).
31. *Aphytis bangalorensis* Rosen & DeBach, 1986  
*Distribution*: Karnataka (Rosen & DeBach, 1986).
32. *Aphytis chrysomphali* (Mercet, 1912)  
*Distribution*: India (Hayat, 1986).
33. *Aphytis diaspidis* (Howard, 1881)  
*Distribution*: Bihar, Jammu & Kashmir and Uttar Pradesh (Hayat, 1998).
34. *Aphytis fioriniae* Rosen & Rose, 1989  
*Distribution*: Assam (Rosen & Rose, 1989).
35. *Aphytis fisheri* DeBach, 1959  
*Distribution*: India (Hayat, 1986).
36. *Aphytis gordonii* DeBach & Rosen, 1976  
*Distribution*: Karnataka (Hayat, 1998).
37. *Aphytis hispanicus* (Mercet, 1912)  
*Distribution*: Assam and Uttar Pradesh (Hayat, 1998).
38. *Aphytis holoxanthus* DeBach, 1960  
*Distribution*: Karnataka and Tamil Nadu (Hayat, 1986).
39. *Aphytis lepidosaphes* Compere, 1955  
*Distribution*: India (Hayat, 1986).
40. *Aphytis linganensis* Compere, 1955  
*Distribution*: Assam, Delhi, Karnataka, Kerala, Tamil Nadu and Uttar Pradesh (Hayat, 1998).
41. *Aphytis maculatus* (Shafee, 1970)  
*Distribution*: Tamil Nadu (Hayat, 1986).
42. *Aphytis maculicornis* (Masi, 1911)  
*Distribution*: India (Hayat, 1986).
43. *Aphytis manii* Hayat, 1998  
*Distribution*: Karnataka (Hayat, 1998).

44. *Aphytis melinus* DeBach, 1959  
*Distribution*: Delhi, Karnataka, Maharashtra, Pondicherry and Tamil Nadu (DeBach, 1959).
45. *Aphytis mytilaspidis* (Le Barron, 1870)  
*Distribution*: India (Hayat, 1986).
46. *Aphytis paramaculicornis* DeBach & Rosen, 1976  
*Distribution*: Jammu & Kashmir (Amin Masoodi & Trali, 1987).
47. *Aphytis peculiaris* (Girault, 1932)  
*Distribution*: Bihar and Delhi (Hayat, 1998).
48. *Aphytis philippiensis* DeBach & Rosen, 1976  
*Distribution*: Assam, Karnataka and Tamil Nadu (DeBach & Rosen, 1976, Fry, 1989, Hayat, 1986 and Rosen & DeBach, 1979).
49. *Aphytis proclia* (Walker, 1839)  
*Distribution*: Himachal Pradesh (Hayat, 1998) and Jammu and Kashmir (Amin Masoodi & Trali, 1987).
50. *Aphytis sankarani* Rosen & DeBach, 1986  
*Distribution*: Karnataka (Fry, 1989 & Rosen & DeBach, 1986).
51. *Aphytis theae* (Cameron, 1891)  
*Distribution*: Assam and Himachal Pradesh (Hayat, 1998).  
Genus ***Botryoideclava*** Subba Rao, 1980
52. *Botryoideclava bharatiya* Subba Rao, 1980  
*Distribution*: Maharashtra (Jadhav & Varma, 2001); Uttar Pradesh (Hayat, 1998); Andhra Pradesh (Manickavasagam & Menakadevi, 2012).  
Genus ***Centrodora*** Foerster, 1878
53. *Centrodora azimi* Hayat, 1973  
*Distribution*: Andhra Pradesh (Hayat, 1986).
54. *Centrodora bahara* Hayat, 2010  
*Distribution*: Uttar Pradesh (Hayat, 2010).
55. *Centrodora bifasciata* Hayat, 1988  
*Distribution*: Assam (Hayat, 1988).
56. *Centrodora flemingiae* Hayat, 2012  
*Distribution*: Jharkhand
57. *Centrodora ghorpadei* Hayat, 1998  
*Distribution*: Karnataka (Hayat, 1998).
58. *Centrodora hamira* Hayat, 2010  
*Distribution*: Himachal Pradesh and Odisha (Hayat, 2010).
59. *Centrodora hexatracha* Erdos & Novicky, 1953  
*Distribution*: Assam (Hayat & Zeya 1993).
60. *Centrodora idioceri* Ferriere, 1931  
*Distribution*: Assam, Bihar, Goa, Daman & Diu, Jammu & Kashmir, Tamil Nadu and Uttar Pradesh (Hayat, 1998).
61. *Centrodora lakma* Hayat, 2010  
*Distribution*: Uttar Pradesh (Hayat, 2010).
62. *Centrodora lineascapa* Hayat, 1998  
*Distribution*: Uttar Pradesh (Hayat, 1998), Kerala, Tamil Nadu (Menakadevi & Manickavasagam, 2011).
63. *Centrodora mala* Hayat, 2010  
*Distribution*: Odisha (Hayat, 2010).
64. *Centrodora mandiana* Hayat, 2010  
*Distribution*: Himachal Pradesh (Hayat, 2010).
65. *Centrodora oophaga* (Girault, 1917)  
*Distribution*: Tamil Nadu (Hayat, 1998).
66. *Centrodora ossira* Hayat, 2010  
*Distribution*: Odisha (Hayat, 2010).
67. *Centrodora pathania* Hayat, 2010  
*Distribution*: Punjab (Hayat, 2010).

68. *Centrodora tetratricha* Hayat, 2010  
*Distribution:* Uttar Pradesh (Hayat, 2010).  
*Distribution:* Karnataka (Hayat, 1986) Maharashtra (Agarwal, 1964 & Shafee *et al.*,1988).
69. *Centrodora utara* Hayat, 2010  
*Distribution:* Uttar Pradesh (Hayat, 2010).  
 Genus *Coccobius* Ratzeburg, 1852
70. *Coccobius amala* Hayat and Khan, 2012  
*Distribution:* Uttar Pradesh (Hayat & Khan, 2012).
71. *Coccobius aligarhensis* (Hayat, 1974a )  
*Distribution:* Uttar Pradesh (Hayat, 1998).
72. *Coccobius aspidiellae* Hayat 2010  
*Distribution:* Kerala (Hayat & Khan, 2010).
73. *Coccobius assamensis* Hayat, 2010  
*Distribution:* Assam (Hayat & Khan, 2010).
74. *Coccobius ceroplastidis* (Agarwal,1964)  
*Distribution:* Uttar Pradesh (Hayat, 1998).
75. *Coccobius comperei* (Hayat, 1971)  
*Distribution:* Karnataka and Kerala (Hayat, 1998).
76. *Coccobius confusus* (Compere & Annecke, 1961)  
*Distribution:* India (Hayat, 1985).
77. *Coccobius cosibus* Hayat, 2010  
*Distribution:* Himachal Pradesh, Meghalaya and Odisha (Hayat & Khan, 2010), Tamil Nadu (Manickavasagan & Menakadevi, 2012).
78. *Coccobius debachi* (Compere & Annecke, 1961)  
*Distribution:* India (Hayat, 1985).
79. *Coccobius flaviceps* (Girault & Dodd, 1915 in Girault, 1915)  
*Distribution:* India (Hayat, 1971).
80. *Coccobius fulvus* (Compere & Annecke, 1961)  
*Distribution:* Himachal Pradesh (Hayat & Khan, 2010).
81. *Coccobius himalayanus* Hayat, 2010 (in Hayat & Khan, 2010).  
*Distribution:* Himachal Pradesh (Hayat & Khan, 2010).
82. *Coccobius himpradianus* Hayat, 2010 ( in Hayat & Khan, 2010).  
*Distribution:* Himachal Pradesh (Hayat & Khan, 2010).
83. *Coccobius mirus* Hayat, 1998  
*Distribution:* Andhra Pradesh, Assam and Uttar Pradesh (Hayat, 1998), Tamil Nadu (Menakadevi & Manickavasagam, 2011).
84. *Coccobius phoebus* Hayat, 2010 (in Hayat & Khan, 2010)  
*Distribution:* Himachal Pradesh, Karnataka, Odisha and Uttar Pradesh (Hayat & Khan, 2010).
85. *Coccobius reticulatus* (Compere & Annecke, 1961)  
*Distribution:* Andhra Pradesh, Delhi, Karnataka, Kerala, Maharashtra and Uttar Pradesh (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
86. *Coccobius subflavus* (Annecke & Insley, 1970)  
*Distribution:* India (Noyes, 2012).
87. *Coccobius udakamundus* Hayat, 1998  
*Distribution:* Tamil Nadu (Hayat, 1998).
88. *Coccobius zalama* Hayat & Khan, 2012  
*Distribution:* Uttar Pradesh  
 Genus *Coccophagoides* Girault, 1915
89. *Coccophagoides orientalis* (Agarwal, 1964)  
*Distribution:* Bihar, Rajasthan, Uttar Pradesh (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2012).



90. *Coccophagoides utilis* Doult, 1966  
*Distribution*: Bihar (Hayat, 1998).  
Genus *Coccophagus* Westwood, 1833a
91. *Coccophagus acanthosceles* Waterston, 1916  
*Distribution*: Assam (Hayat, 1986).
92. *Coccophagus anthracinus* Compere, 1925  
*Distribution*: Delhi (Hayat, 1986)
93. *Coccophagus assamensis* Hayat, 1993  
*Distribution*: Assam (Hayat, 1993).
94. *Coccophagus atratus* Compere, 1926  
*Distribution*: Delhi (Hayat, 1986).
95. *Coccophagus bivittatus* Compere, 1926  
*Distribution*: Haryana, Rajasthan, Tamil Nadu, Uttar Pradesh (Hayat, 1998).
96. *Coccophagus bogoriensis* (Koningsberger, 1897)  
*Distribution*: Andhra Pradesh, Assam, Karnataka, Kerala (Hayat, 1998).
97. *Coccophagus burksi* Hayat, 1971  
*Distribution*: Puducherry (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
98. *Coccophagus candidus* Hayat, 1993  
*Distribution*: Assam (Hayat, 1993).
99. *Coccophagus ceroplastae* (Howard, 1895)  
*Distribution*: widely distributed recorded from several Indian states (Hayat, 1998), Meghalaya (Hayat & Khan, 2010).
100. *Coccophagus chloropulvinariae* Hayat, 1974b  
*Distribution*: Assam (Hayat, 1993) Uttar Pradesh (Hayat, 1974b).
101. *Coccophagus clavatus* Husain & Agarwal, 1982  
*Distribution*: Andhra Pradesh (Husain & Agarwal, 1982).
102. *Coccophagus copernicus* Husain & Agarwal, 1982  
*Distribution*: Andhra Pradesh (Husain & Agarwal, 1982).
103. *Coccophagus cowperi* Girault, 1917  
*Distribution*: Andhra Pradesh, Goa, Kerala, Karnataka, Maharashtra, Puducherry and Tamil Nadu (Hayat, 1998).
104. *Coccophagus dius* Hayat, 1998  
*Distribution*: Karnataka (Hayat, 1998).
105. *Coccophagus flavicarpus* Husain & Agarwal, 1982  
*Distribution*: Andhra Pradesh (Husain & Agarwal, 1982).
106. *Coccophagus flavifrons* Howard, 1885  
*Distribution*: Delhi (Hayat, 1986).
107. *Coccophagus formicariae* Hayat, 1998  
*Distribution*: Assam (Hayat, 1998).
108. *Coccophagus fumadus* Hayat, 2010 (in Hayat & Khan, 2010).  
*Distribution*: Odisha (Hayat & Khan, 2010); Kerala (Menakadevi & Manickavasagam, 2011).
109. *Coccophagus gilvus* Hayat, 1971  
*Distribution*: Goa (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
110. *Coccophagus indochraceus* Hayat, 1998  
*Distribution*: Uttar Pradesh (Hayat, 1998).
111. *Coccophagus insignis* Hayat & Zeya, 1993  
*Distribution*: Assam (Hayat & Zeya, 1993).
112. *Coccophagus longiclavatus* Shafee, 1972  
*Distribution*: Assam, Bihar, Karnataka, Uttar Pradesh (Hayat, 1998).
113. *Coccophagus longicornis* Hayat, 1971  
*Distribution*: Punjab (Hayat, 1998); Kerala (Menakadevi & Manickavasagam, 2011).

114. *Coccophagus longifasciatus* Howard, 1907  
*Distribution*: Odisha (Hayat & Khan, 2010).
115. *Coccophagus longipedicellus* Shafee, 1972  
*Distribution*: Andaman & Nicobar Islands, Karnataka (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
116. *Coccophagus lutescens* Compere, 1931  
*Distribution*: Rajasthan (Hayat, 1998).
117. *Coccophagus lycimnia* (Walker, 1839)  
*Distribution*: Karnataka (CIBC, 1976).
118. *Coccophagus mangiferae* (Dozier, 1932)  
*Distribution*: Tamil Nadu, Uttar Pradesh (Hayat & Viggiani, 1984).
119. *Coccophagus meghaianus* Hayat, 2010 (in Hayat & Khan, 2010).  
*Distribution*: Meghalaya (Hayat & Khan, 2010).
120. *Coccophagus narendrani* Hayat & Zeya, 1993  
*Distribution*: Kerala (Hayat & Zeya, 1993).
121. *Coccophagus nigricorpus* Shafee, 1972  
*Distribution*: Andhra Pradesh (Hayat, 1998).
122. *Coccophagus ochraceus* Howard, 1895  
*Distribution*: Uttar Pradesh (Hayat, 1986).
123. *Coccophagus ophicus* Husain & Agarwal, 1982  
*Distribution*: Andhra Pradesh (Husain & Agarwal, 1982).
124. *Coccophagus parlobatae* Hayat, 2007  
*Distribution*: Karnataka (Hayat, 2007).
125. *Coccophagus perhispidus* Girault, 1926  
*Distribution*: Delhi (Hayat, 1986).
126. *Coccophagus prinslooi* Hayat, 1998  
*Distribution*: Karnataka (Hayat, 1998).
127. *Coccophagus pseudococci* Compere, 1933  
*Distribution*: Andaman & Nicobar Islands, Bihar, Delhi, Goa, Himachal Pradesh, Karnataka, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh (Hayat, 1998).  
*Distribution*: Delhi (Hayat, 1986).
128. *Coccophagus samarae* Hayat, 1998  
*Distribution*: Tamil Nadu (Hayat, 1998).
129. *Coccophagus sexvittatus* Hayat, 1974b  
*Distribution*: Madhya Pradesh (Hayat, 1998).
130. *Coccophagus shafeei* Hayat, 1974b  
*Distribution*: Goa, Karnataka (Hayat, 1998).
131. *Coccophagus shillongensis* Hayat & Singh, 1989  
*Distribution*: Meghalaya (Hayat & Singh, 1989).
132. *Coccophagus silvestrii* Compere, 1931  
*Distribution*: Uttar Pradesh (Hayat, 1998).
133. *Coccophagus subflavescens* Hayat, 1971  
*Distribution*: Uttar Pradesh (Hayat, 1998).
134. *Coccophagus sudhiri* Hayat, 1993  
*Distribution*: Assam (Hayat, 1993).
135. *Coccophagus tschirchii* Mahdihassan, 1923  
*Distribution*: Assam, Bihar, Jammu & Kashmir, Karnataka, Punjab, West Bengal (Hayat, 1998).
136. *Coccophagus zebratus* Howard, 1907  
*Distribution*: Karnataka (Hayat, 2012)
137. *Coccophagus zeyai* Hayat, 1998  
*Distribution*: Tamil Nadu (Hayat, 1998).  
Genus *Diaspiniphagus* Silvestri, 1927
138. *Diaspiniphagus decorus* Hayat, 2011a  
*Distribution*: Uttar Pradesh (Hayat, 2011a).

- Genus *Encarsia* Foerster, 1878
139. *Encarsia acaudaleyrodis* Hayat, 1976  
*Distribution:* Delhi, Rajasthan, Tamil Nadu (Hayat, 1976); Uttar Pradesh (Hayat, 2011b).
140. *Encarsia albiscutellum* (Girault, 1913)  
*Distribution:* Uttar Pradesh (Hayat, 2011b).
141. *Encarsia aseta* Hayat & Polaszek, 1992  
*Distribution:* Maharashtra (Hayat, 1998); Uttar Pradesh (Hayat, 2011b).
142. *Encarsia asfar* Hayat, 2011b  
*Distribution:* Uttar Pradesh (Hayat, 2011b).
143. *Encarsia assamensis* Hayat, 2011b  
*Distribution:* Assam (Hayat, 2011b).
144. *Encarsia asterobemisiae* Viggiani and Mazzone, 1980  
*Distribution:* Himachal Pradesh (Hayat, 2011b).
145. *Encarsia aurantii* (Howard, 1894)  
*Distribution:* Andhra Pradesh, Karnataka (Hayat, 1998), Tamil Nadu (Menakadevi & Manickavasagam, 2011).
146. *Encarsia azimi* Hayat, 1986  
*Distribution:* Himachal Pradesh, Punjab, Tamil Nadu, Uttar Pradesh, Odisha (Hayat, 1998); Meghalaya, Assam, Uttarkhand, Karnataka (Hayat, 2011b).
147. *Encarsia bangalorensis* Hayat, 1989  
*Distribution:* Karnataka (Hayat, 1998).
148. *Encarsia bennetti* Hayat, 1984  
*Distribution:* Maharashtra, Uttar Pradesh (Hayat, 1998).
149. *Encarsia bimaculata* Heraty & Polaszek, 2000  
*Distribution:* Assam, Karnataka, Maharashtra, Odisha and West Bengal (Hayat, 2011b).
150. *Encarsia bolangeri* Hayat, 2011b  
*Distribution:* Karnataka (Hayat, 2011b).
151. *Encarsia borkusiensis* Hayat, 2011b  
*Distribution:* Assam (Hayat, 2011b).
152. *Encarsia boswelli* (Girault, 1915)  
*Distribution:* Karnataka, Tamil Nadu (Polaszek & Hayat, 1992).
153. *Encarsia brevicealcar* Hayat, 2011b  
*Distribution:* Goa (Hayat, 2011b).
154. *Encarsia brevivalvula* Hayat, 1989  
*Distribution:* Uttar Pradesh (Hayat, 1998), Tamil Nadu (Menakadevi & Manickavasagam, 2011).
155. *Encarsia brevivena* Hayat, 1989  
*Distribution:* Karnataka (Hayat, 1989).
156. *Encarsia brimblecombei* (Girault, 1933)  
*Distribution:* Assam (Hayat, 1989).
157. *Encarsia cibcensis* Lopez-Avila, 1987  
*Distribution:* India (Schmidt *et al.*, 2001).
158. *Encarsia citrina* (Craw, 1891)  
*Distribution:* Meghalaya, Karnataka (Hayat, 2011b).
159. *Encarsia clypealis* (Silvestri, 1927)  
*Distribution:* Andhra Pradesh, Assam, Karnataka, Maharashtra, Tamil Nadu, Uttar Pradesh (Hayat, 1998).
160. *Encarsia coimbatorensis* Hayat, 1989  
*Distribution:* Tamil Nadu (Hayat, 1998).
161. *Encarsia confusa* Hayat, 1989  
*Distribution:* Bihar and Uttar Pradesh (Hayat, 1998).
162. *Encarsia colima* Myartseva, 2005  
*Distribution:* Tamil Nadu (Menakadevi & Manickavasagam, 2011).
163. *Encarsia davidi* Viggiani and Mazzone, 1980



- Distribution:* Rajasthan and Uttar Pradesh (Hayat, 2011b).
164. *Encarsia dialeurodis* Hayat, 1989  
*Distribution:* Uttar Pradesh (Hayat, 1998).
165. *Encarsia diaspidicola* (Silvestri, 1909)  
*Distribution:* Meghalaya (Hayat, 2011b).
166. *Encarsia dispersa* Polaszek, 2004 (In Polaszek *et al.*, 2004)  
*Distribution:* Karnataka, Kerala and Lakshadweep Islands (Hayat, 2011b).
167. *Encarsia divergens* (Silvestri, 1926)  
*Distribution:* Assam (Hayat, 1998).
168. *Encarsia duorunga* Hayat, 1989  
*Distribution:* Uttar Pradesh (Hayat, 1998), Tamil Nadu (Menakadevi & Manickavasagam (2012); Assam, Meghalaya, Uttarakhand and West Bengal (Hayat, 2011b).
169. *Encarsia elegans* Masi, 1911  
*Distribution:* Bihar, Delhi and Uttar Pradesh (Hayat, 1998); Assam, Himachal Pradesh, Meghalaya and Uttarakhand (Hayat, 2011a).
170. *Encarsia elongata* (Dozier, 1937)  
*Distribution:* Assam (Hayat, 1998).
171. *Encarsia farmani* Hayat, 2011b  
*Distribution:* Uttarakhand (Hayat, 2011b).
172. *Encarsia flavoscutellum* Zehntner, 1900  
*Distribution:* Assam (Hayat, 1998).
173. *Encarsia guadeloupae* Viggiani, 1987  
*Distribution:* Bangaluru (Antony *et al.*, 2006); Andhra Pradesh, Kerala (Hayat, 2011b); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
174. *Encarsia gunturensis* (Azim & Shafee, 1980)  
*Distribution:* Andhra Pradesh, Tamil Nadu and Uttar Pradesh (Hayat, 1998).
175. *Encarsia hitam* Hayat, 2011b  
*Distribution:* Meghalaya, Uttarakhand, Uttar Pradesh (Hayat, 2011b); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
176. *Encarsia hragila* Hayat, 2011b  
*Distribution:* Uttar Pradesh (Hayat, 2011b).
177. *Encarsia inaron* (Walker, 1839)  
*Distribution:* Karnataka, Uttar Pradesh (Hayat, 2011b)
178. *Encarsia indica* (Shafee, 1973)  
*Distribution:* Puducherry (Hayat, 1998).
179. *Encarsia inida* Hayat, 2011b  
*Distribution:* Sikkim (Hayat, 2011b).
180. *Encarsia interstrica* Huang & Polaszek, 1998  
*Distribution:* West Bengal (Hayat, 2011b).
181. *Encarsia isaaci* Mani, 1941  
*Distribution:* Andhra Pradesh, Odisha, Tamil Nadu and Uttar Pradesh (Hayat, 1998).
182. *Encarsia ixorae* Krishnan & Vasantharaj David, 1996  
*Distribution:* Tamil Nadu (Hayat, 1998).
183. *Encarsia jowaiana* Hayat, 2011b  
*Distribution:* Meghalaya (Hayat, 2011b).
184. *Encarsia khadijae* Hayat, 2011b  
*Distribution:* Odisha, Uttarakhand, Uttar Pradesh (Hayat, 2011b).
185. *Encarsia lahorensis* (Howard, 1911)  
*Distribution:* Bihar (Hayat, 1998).
186. *Encarsia levo* Hayat, 2006  
*Distribution:* West Bengal (Hayat, 2006).
187. *Encarsia lipaleyrodis* Krishnan & Vasantharaj David, 1996  
*Distribution:* Tamil Nadu (Krishnan & Vasantharaj David, 1996).

188. *Encarsia liliyingae* Viggiani and Ren  
*Distribution*: Assam (Hayat, 1998).
189. *Encarsia longicauda* Hayat, 1989  
*Distribution*: Andhra Pradesh, Rajasthan and Tamil Nadu (Hayat, 1998) Orissa (Hayat, 2011b).
190. *Encarsia longifasciata* Subba Rao, 1984  
*Distribution*: Karnataka (Hayat, 1998).
191. *Encarsia lounsburyi* (Berlese and Paoli, 1916)  
*Distribution*: Sikkim (Hayat, 2011b).
192. *Encarsia lutea* (Masi, 1909)  
*Distribution*: Bihar and Uttar Pradesh (Hayat, 1998).
193. *Encarsia macroptera* Viggiani, 1985  
*Distribution*: Maharashtra, Punjab and Uttar Pradesh (Hayat, 1998).
194. *Encarsia meghalayana* Hayat, 2011b  
*Distribution*: Meghalaya (Hayat, 2011b).
195. *Encarsia merceti* Silvestri, 1926  
*Distribution*: Assam, Delhi (Hayat, 1998).
196. *Encarsia muliyali* Mani, 1941  
*Distribution*: Odisha, Uttar Pradesh (Hayat, 1998); Tamil Nadu (Menakadesvi & Manickavasagam, 2011).
197. *Encarsia nanjingensis* Huang and Polaszek, 1998  
*Distribution*: Assam (Hayat, 1998).
198. *Encarsia narayanani* Agarwal, 1964  
*Distribution*: Karnataka, Maharashtra, Odisha and Uttar Pradesh (Hayat, 1998).
199. *Encarsia norani* Hayat, 1989  
*Distribution*: Uttar Pradesh (Hayat, 1998).
200. *Encarsia obtusiclava* Hayat, 1989  
*Distribution*: Karnataka, Uttar Pradesh (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
201. *Encarsia occultans* Hayat, 1998  
*Distribution*: Bihar, Odisha, Uttar Pradesh (Hayat, 1998).
202. *Encarsia orangae* Raina, Khurad & Rathod, 1996  
*Distribution*: Maharashtra (Raina *et al.*, 1996).
203. *Encarsia ossira* Hayat, 2011b  
*Distribution*: Odisha (Hayat, 2011b).
204. *Encarsia perflava* Hayat, 1989  
*Distribution*: Uttar Pradesh (Hayat, 1998), Assam, Madhya Pradesh and Uttarakhand (Hayat, 2011b).
205. *Encarsia perniciosi* (Tower, 1913)  
*Distribution*: Jammu & Kashmir, Himachal Pradesh, Punjab, Uttar Pradesh (Hayat, 1998).
206. *Encarsia perplexa* Huang & Polaszek, 1998  
*Distribution*: Uttar Pradesh (Hayat, 2006).
207. *Encarsia pseudococci* (Agarwal, 1964)  
*Distribution*: Uttar Pradesh (Agarwal, 1964).
208. *Encarsia punicae* Hayat, 1998  
*Distribution*: Andhra Pradesh, Karnataka (Hayat, 1998); Uttar Pradesh (Hayat, 2011b).
209. *Encarsia pura* Hayat, 1998  
*Distribution*: Maharashtra (Hayat, 1998).
210. *Encarsia reeda* Hayat, 2011b  
*Distribution*: Assam, Meghalaya, Uttarakhand (Hayat, 2011b).
211. *Encarsia sankarani* Hayat, 1989  
*Distribution*: Assam (Hayat, 1989).
212. *Encarsia septentrionalis* Hayat, 1989  
*Distribution*: Bihar, Delhi, Uttar Pradesh (Hayat, 1989).

213. *Encarsia sikkimiana* Hayat, 2011a  
*Distribution*: Sikkim (Hayat, 2011b).
214. *Encarsia smithi* (Silvestri, 1926)  
*Distribution*: Bihar, Karnataka, Maharashtra (Hayat, 1998).
215. *Encarsia sophia* (Girault & Dodd, 1915) (in Girault, 1915).  
*Distribution*: India.
216. *Encarsia strenua* (Silvestri, 1927)  
*Distribution*: Uttar Pradesh and West Bengal (Noyes, 2012).
217. *Encarsia terebrator* (Shafee, 1974)  
*Distribution*: Andhra Pradesh (Hayat, 1998).
218. *Encarsia tinctoriae* Krishnan & Vasantharaj David, 1996  
*Distribution*: Tamil Nadu (Krishnan & Vasantharaj David, 1996).
219. *Encarsia tristis* (Zehntner, 1896)  
*Distribution*: Bihar, Delhi, Karnataka, Maharashtra, Punjab, Tamil Nadu, Uttar Pradesh (Hayat, 1998).
220. *Encarsia trivittata* Hayat, 1989  
*Distribution*: Uttar Pradesh (Hayat, 1989).
221. *Encarsia udaipuriensis* (Shafee, 1973)  
*Distribution*: Bihar, Odisha, Rajasthan, Tamil Nadu and Uttar Pradesh (Hayat, 1998); Meghalaya (Hayat, 2011b).  
 Genus *Eretmocerus* Haldeman, 1850
222. *Eretmocerus adustiscutum* Krishnan & Vasantharaj David, 1996  
*Distribution*: Karnataka, Kerala, Maharashtra, Tamil Nadu and Uttar Pradesh (Krishnan & Vasantharaj David, 1996).
223. *Eretmocerus bisetae* Hayat, 1998  
*Distribution*: Uttar Pradesh (Hayat, 1998).
224. *Eretmocerus breviclavus* Subba Rao, 1984  
*Distribution*: Karnataka (Subba Rao, 1984).
225. *Eretmocerus corni* Haldeman, 1850  
*Distribution*: Maharashtra (Hayat, 1986).
226. *Eretmocerus delhiensis* Mani, 1941  
*Distribution*: Bihar, Delhi, Rajasthan and Uttar Pradesh (Hayat, 1998).
227. *Eretmocerus dialeurolongae* Krishnan & Vasantharaj David, 1996  
*Distribution*: Tamil Nadu (Krishnan & Vasantharaj David, 1996).
228. *Eretmocerus flavus* Krishnan & Vasantharaj David, 1996  
*Distribution*: Tamil Nadu (Krishnan & Vasantharaj David, 1996).
229. *Eretmocerus gunturiensis* Hayat, 1972b  
*Distribution*: Andhra Pradesh and Maharashtra (Hayat, 1998).
230. *Eretmocerus haldemani* Howard, 1908  
*Distribution*: Uttar Pradesh (Hayat, 1986).
231. *Eretmocerus hayati* Zolnerowich & Rose, 1998  
*Distribution*: India (Noyes, 2012).
232. *Eretmocerus hydrabadensis* Husain & Agarwal, 1982  
*Distribution*: Andhra Pradesh (Husain & Agarwal, 1982).
233. *Eretmocerus indicus* Hayat, 1972  
*Distribution*: Uttar Pradesh (Hayat, 1998).
234. *Eretmocerus longiscapus* Hayat, 1998  
*Distribution*: Uttar Pradesh (Hayat, 1998).
235. *Eretmocerus mundus* Mercet, 1931  
*Distribution*: Andhra Pradesh, Bihar, Maharashtra, Tamil Nadu, Uttar Pradesh (Hayat, 1998).
236. *Eretmocerus paulistus* Hempel, 1904  
*Distribution*: Uttar Pradesh (Hayat, 1986).

237. *Eretmocerus rajasthanicus* Hayat, 1976  
*Distribution*: Rajasthan (Hayat, 1998); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
238. *Eretmocerus sculpturatus* Hayat, 1998  
*Distribution*: Bihar (Hayat, 1998).
239. *Eretmocerus serius* Silvestri, 1927  
*Distribution*: Andhra Pradesh, Karnataka and Uttar Pradesh (Hayat, 1998).
240. *Eretmocerus trialeurodis* Hayat, 1998  
*Distribution*: Tamil Nadu (Hayat, 1998).  
 Genus *Eriaphytis* Hayat, 1972c
241. *Eriaphytis chackoi* Subba Rao, 1980  
*Distribution*: Karnataka (Hayat, 1998).
242. *Eriaphytis orientalis* Hayat, 1972c  
*Distribution*: Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh (Hayat, 1998).  
 Genus *Euryischia* Compere, 1928
243. *Euryischia indica* Mani & Kurian, 1953  
*Distribution*: Andhra Pradesh, Bihar, Tamil Nadu, Uttar Pradesh (Hayat, 1998).  
 Genus *Euryischomyia* Girault, 1914
244. *Euryischomyia washingtoni* Girault, 1914  
*Distribution*: Andhra Pradesh, Karnataka and Tamil Nadu (Hayat, 1998).  
 Genus *Eutrichosomella* Girault, 1915
245. *Eutrichosomella indica* Singh, 2010  
*Distribution*: Western Ghats (Singh & Srinivasa, 2010).
246. *Eutrichosomella keralensis* Manickavasagam & Menakadevi, 2012  
*Distribution*: Kerala (Manickavasagam & Menakadevi, 2012).  
 Genus *Idiococcobius* Hayat, 2010
247. *Idiococcobius encarsoides* Hayat, 2010  
*Distribution*: West Bengal (Hayat & Khan 2010)
- Genus *Marietta* Motschulsky, 1863
248. *Marietta carnesi* (Howard, 1910)  
*Distribution*: Jammu & Kashmir, Uttar Pradesh (Hayat, 1998).
249. *Marietta leopardina* Motschulsky, 1863  
*Distribution*: Throughout India including Andaman & Nicobar Islands (Hayat, 1998).
250. *Marietta picta* (Andre, 1878)  
*Distribution*: Uttar Pradesh (Hayat, 1998).  
 Genus *Marlattiella* Hayat, 1974a
251. *Marlattiella maculata* Hayat, 1974a  
*Distribution*: Uttar Pradesh (Hayat, 1974a).  
 Genus *Myiocnema* Ashmead, 1990
252. *Myiocnema comperei* Ashmead, 1900  
*Distribution*: India (Thompson, 1955).  
 Genus *Paraphytis* Compere, 1925
253. *Paraphytis maculatus* (Shafee, 1970)  
*Distribution*: Tamil Nadu (Shafee, 1970).
254. *Paraphytis peculiaris* (Girault, 1932)  
*Distribution*: Bihar and Delhi (Girault, 1932).
255. *Paraphytis transversa* (Huang, 1994)  
*Distribution*: Kerala (Hayat, 2012).  
 Genus *Proaphelinoides* Girault, 1917
256. *Proaphelinoides anomalus* Hayat, 1985  
*Distribution*: Karnataka (Hayat, 1986).
257. *Proaphelinoides assamensis* Hayat, 2012  
*Distribution*: Assam (Hayat 2012).
258. *Proaphelinoides chidambaramensis* Manickavasagam & Menakadevi, 2012 (in Menakadevi & Manickavasagam, 2012).  
*Distribution*: Tamil Nadu (Menakadevi & Manickavasagam, 2012).  
 Genus *Promuscidea* Girault, 1917
259. *Promuscidea unfasciativentris* Girault, 1917

- Distribution:* Andaman & Nicobar Islands, Andhra Pradesh, Assam, Bihar, Delhi, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Odisha, Punjab, Tamil Nadu, Uttar Pradesh, West Bengal (Hayat, 1998).
- Genus *Protaphelinus* Mackauer, 1972a
260. *Protaphelinus nikolskajae* (Yasnosh, 1963)
- Distribution:* Himachal Pradesh, Jammu & Kashmir (Hayat, 1998).
- Genus *Pteroptrix* Westwood, 1833b
261. *Pteroptrix albifemur* (Girault, 1915)
- Distribution:* Karnataka (Hayat, 1998).
262. *Pteroptrix aster* Hayat, 2010
- Distribution:* Uttar Pradesh (Hayat & Khan, 2010).
263. *Pteroptrix bemisiae* Mani
- Distribution:* Bihar (Hayat, 1986).
264. *Pteroptrix chinensis* (Howard, 1907)
- Distribution:* Jammu & Kashmir (Hayat, 1998).
265. *Pteroptrix koebelei* (Howard, 1907)
- Distribution:* Karnataka (Hayat, 1998).
266. *Pteroptrix machiaveli* (Girault)
- Distribution:* Karnataka (Hayat, 1998); Uttar Pradesh, Odisha, Meghalaya, Assam (Hayat & Khan, 2010); Tamil Nadu (Menakadevi & Manickavasagam, 2011).
267. *Pteroptrix matpada* Hayat, 2010 ( Hayat & Khan, 2010).
- Distribution:* Orissa (Hayat &Khan, 2010).
268. *Pteroptrix longiclavata* (Shafee, Siddiqui & Rizvi, 1988)
- Distribution:* Utttar Pradesh (Shafee, Siddiqui & Rizvi, 1988).
269. *Pteroptrix zoza* Hayat, 2010
- Distribution:* Uttar Pradesh (Hayat & Khan, 2010).

### SUMMARY

A checklist of Indian aphelinids upto December, 2013 is compiled and presented that includes a total of 269 species under 24 genera.

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