



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* (Anneck & 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 nigricarpus* 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 prinslooii* 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 brevicarcar* 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 jowaiiana* 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 lipaleyrodia* 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 *Eretmocer* Haldeman, 1850
222. *Eretmocer* *adustiscutum* Krishnan & Vasantharaj David, 1996
Distribution: Karnataka, Kerala, Maharashtra, Tamil Nadu and Uttar Pradesh (Krishnan & Vasantharaj David, 1996).
223. *Eretmocer* *bisetae* Hayat, 1998
Distribution: Uttar Pradesh (Hayat, 1998).
224. *Eretmocer* *breviclavus* Subba Rao, 1984
Distribution: Karnataka (Subba Rao, 1984).
225. *Eretmocer* *corni* Haldeman, 1850
Distribution: Maharashtra (Hayat, 1986).
226. *Eretmocer* *delhiensis* Mani, 1941
Distribution: Bihar, Delhi, Rajasthan and Uttar Pradesh (Hayat, 1998).
227. *Eretmocer* *dialeurolongae* Krishnan & Vasantharaj David, 1996
Distribution: Tamil Nadu (Krishnan & Vasantharaj David, 1996).
228. *Eretmocer* *flavus* Krishnan & Vasantharaj David, 1996
Distribution: Tamil Nadu (Krishnan & Vasantharaj David, 1996).
229. *Eretmocer* *gunturiensis* Hayat, 1972b
Distribution: Andhra Pradesh and Maharashtra (Hayat, 1998).
230. *Eretmocer* *haldemani* Howard, 1908
Distribution: Uttar Pradesh (Hayat, 1986).
231. *Eretmocer* *hayati* Zolnerowich & Rose, 1998
Distribution: India (Noyes, 2012).
232. *Eretmocer* *hydrabadensis* Husain & Agarwal, 1982
Distribution: Andhra Pradesh (Husain & Agarwal, 1982).
233. *Eretmocer* *indicus* Hayat, 1972
Distribution: Uttar Pradesh (Hayat, 1998).
234. *Eretmocer* *longiscapus* Hayat, 1998
Distribution: Uttar Pradesh (Hayat, 1998).
235. *Eretmocer* *mundus* Mercet, 1931
Distribution: Andhra Pradesh, Bihar, Maharashtra, Tamil Nadu, Uttar Pradesh (Hayat, 1998).
236. *Eretmocer* *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 un fasciativentris* 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. *Pteroprtix 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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