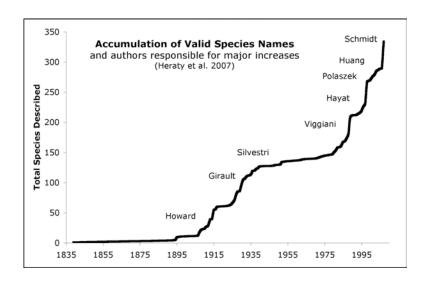
# Catalog of the Encarsia of the World (2007)

## John Heraty, James Woolley and Andrew Polaszek

(a work in progress)



Encarsia		Distribution (published)						Host Associations (published)		
Species Group	Total No.	Nearctic	Neotropical	Palaearctic	Afrotropical	Australasian	Oriental	Aleyrodidae	Diaspididae	Other
unplaced	90	3	6	13	5	44	11	20	8	
Aurantii	42	7	5	18	4	9	22	13	22	2
Citrella	4	3	3					4		
Citrina	9	2	2	4	3		4	1?	7	
Cubensis	7	4	5		1	1	1	5		
Divergens	2						2		1	
Duorunga	3						3	2		
Elegans	6					2	4	4		
Flavoscutellum	4			1			3			3
Inaron	22	2	2	7	2	8	4	18	1	1
Inquirenda	4						4		3	
Lahorensis	22	1	2	з	1	7	13	14		1
Longifasciata	5			2	1	2	2	2	1	
Lutea	11			4	2	з	5	11		2
Luteola	13	7	8	4	2	з	2	10	1?	
Merceti	4	1					4	4		
Noyesi	12	3	2			6	2	5		
Opulenta	18	5	2	1		2	14	15	1?	1
Parvella	14	3	5	4	3	4	6	13		
Scapeata	2			1	1			1		
Septentrionalis	1						1	1		1
Singularis	3				1		2		3	
Smithi	2					2		1		
Strenua	36	4	3	10	3	14	16	25	2?	3?
Tremblayi	1				1			1		
Tricolor	6			4		1	1	5		2
Tristis	1				1	1	1	1		
Totals	344	45	45	76	31	109	127	175	46	13

## Note: names in parentheses refer to species groups, not subgenera.

Encarsia Foerster, 1878. Type species: Encarsia tricolor Foerster, by original designation.

Aspidiotiphagus Howard, 1894a. Type species: Coccophagus citrinus Craw, by original designation. Synonymy by Viggiani & Mazzone, 1979[144]: 44.

Aspidiotiphagus Howard, 1894a. Type species: Coccophagus citrinus Craw, by original designation. Synonymy by Viggiani & Mazzone, 1979[144]: 44.

*Prospalta* Howard, 1894b. Type species: *Coccophagus aurantii* Howard. Subsequently designated by ICZN, Opinion 845, 1968: 12-13. Homonym; discovered by ??.

*Prospalta* Howard, 1894b. Type species: *Coccophagus aurantii* Howard. Homonym of *Prospalta* Howard; discovered by ??.

Encarsia; Howard, 1895b. Subsequent description.

Prospaltella Ashmead, 1904[238]. Replacement name; synonymy by Viggiani & Mazzone, 1979[144]: 44.

Prospaltella Ashmead, 1904[238]. Replacement name for Prospalta Howard Viggiani & Mazzone, 1979[144]: 44.

*Mimatomus* Cockerell, 1911. Type species: *Mimatomus peltatus* Cockerell, by monotypy. Synonymy by Girault, 1917[312]: 114.

Doloresia Mercet, 1912. Type species: *Prospaltella filicornis* Mercet, by original designation. Synonymy by Mercet, 1930a: 191.

Aspidiotiphagus; Mercet, 1912a. Subsequent description.

Encarsia; Mercet, 1912a. Subsequent description.

Prospaltella; Mercet, 1912a. Subsequent description.

*Prospaltoides* Bréthes, 1914. Type species: *Prospaltoides howardi* Bréthes, by original designation. Synonymy by *Bréthes*, 1916: 429.

Encarsia; Mercet, 1930a. Subsequent description.

Trichaporus; Mercet, 1930a. Subsequent description.

Trichaporus; Dozier, 1933a. Subsequent description.

Encarsia; De Santis, 1948a. Subsequent description.

Aspidiotiphagus (Paraspidiotiphagus) Alam, 1956. Type species: Aspidiotiphagus flavus Compere, by original designation. Synonymy by Viggiani & Mazzone ??, 1979[144]: 44.

*Paraspidiotiphagus* Alam, 1956. Type species: *Aspidiotiphagus flavus* Compere, by original designation. Synonymy by Huang & Polaszek, 1998: 1829.

Encarsia; Agarwal, 1964. Subsequent description.

Aleurodiphilus DeBach & Rose, 1981. Type species: Aleurodiphalus americanus DeBach & Rose, by original designation. Synonymy by Hayat, 1983: 85.

Aspidiotiphagus; Rose & DeBach, 1981. Subsequent description.

*Encarsiella* Hayat, 1983. Type species: *Encarsiella noyesi* Hayat, by original designation. Synonymy by Shafee & Risvi, 1984: 379; description as *Encarsiella* by Polaszek & Hayat 1992: 192 without reference to Shafee & Risvi synonymy; revived synonymy as *Encarsia* (*Noyesi*) by Schmidt & Polaszek 2007b: 86.

Encarsia: Viggiani, 1988d. Subsequent description.

Encarsia; Viggiani, 1990. Subsequent description.

Encarsia; Hayat, 1998. Subsequent description.

Encarsia; Huang & Polaszek, 1998. Subsequent description.

Encarsia; Polaszek, Abd-Rabou and Huang, 1999. Subsequent description.

Encarsia; Schmidt et al., 2001. Subsequent description.

#### unplaced species:

### Encarsia adela Schmidt & Polaszek

DISTRIBUTION: **Australasian**: Australia (New South Wales [SchmidPo2007a], Tasmania [SchmidPo2007a]). *Encarsia adela* Schmidt & Polaszek, 2007a: 2115-2116. Type data: Tasmania: Claytons, Bathurst Harbour.

Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia alboscutellaris De Santis

CITATIONS: Abbass1975 [Tky].

DISTRIBUTION: Neotropical: Argentina.

*Encarsia alboscutellaris* De Santis, 1979b: 134-135. Type data: Argentina: Misiones, Loreto. Holotype female, by original designation. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female. Illust.

#### Encarsia ancora Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Xenaleyrodes timonii Martin [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia ancora* Schmidt & Polaszek, 2007a: 2123-2124. Type data: Australia: QLD, Heathlands. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### **Encarsia aonidiae Howard**

ASSOCIATIONS: Host - HEMIPTERA **Diaspididae**: *Greeniella (=aonidia) cornigera* [Hayat1989a, Mercet1912a, Howard1895c].

DISTRIBUTION: Oriental: Sri Lanka [HowardAs1896].

*Encarsia aonidiae* Howard, 1895c: 636. Type data: Sri Lanka: Pundaluoya. Lectotype female, by subsequent designation Hayat, 1981a: 464. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 3251. Described: female.

Encarsia aonidiae; Mercet, 1912a: 153-154. Described: female. Subsequent description.

Encarsia aonidiae; Ayyer, 1925: 251. Subsequent description.

#### Encarsia ashmeadi (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (New South Wales [Giraul1915238]).

Coccophagus ashmeadi Girault, 1915238: 50, 56. Type data: Australia: NSW, Chindera (Tweed River). Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2930. Described: female.

Prospaltella ashmeadi; Compere, 1931: 11. Change of combination.

Coccophagus ashmeadi; Dahms, 1983: 59.

Encarsia ashmeadi; Viggiani, 1985[233]: 235. Described: female. Illust. Change of combination.

#### Encarsia atlantica Polaszek & Hernández

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleyrodes sp. [new].

DISTRIBUTION: Palaearctic: Canary Islands [HernanCaAg2003].

*Encarsia atlantica* Polaszek & Hernández, 2003: 60. Type data: Canary Islands: Tenerife. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

## Encarsia aureola (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Prospaltella aureola* Girault, 1913[167]: 189. Type data: Australia: QLD, Brisbane. Lectotype female, by subsequent designation ???????, . Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1732. Described: female.

Coccophagus aureola; Girault, 1915[238]: 53, 56. Described: female. Change of combination.

Prospaltella aureola; Compere, 1931: 11.

Prospaltella aureola; Dahms, 1983: 76-77.

Encarsia aureola; Viggiani, 1985[233]: 236-237. Described: female. Illust. Change of combination.

#### **Encarsia aurithorax Girault**

CITATIONS: SchmidPo2007a [Ila, Rr, Dea].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Encarsia aurithorax* Girault, 1913[167]: 186-187. Type data: Australia: QLD, Brisbane. Syntypes, female. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1725. Described: female.

Encarsia aurithorax; Dahms, 1983: 83.

Encarsia aurithorax; Viggiani, 1985[233]: 237. Described: female. Illust. Subsequent description.

#### Encarsia axacaliae Abd-Rabou & Ghari

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Axacalia spiranti Danzig [AbdrabGh2007].

DISTRIBUTION: Palaearctic: Iran.

*Encarsia axacaliae* Abd-Rabou & Ghari, 2007: xx. Type data: Iran. Holotype female, by original designation. Described: female. Illust.

## Encarsia bella (Gahan)

ASSOCIATIONS: Host - HEMIPTERA **Diaspididae**: *Chionaspis pinifoliae* (Fitch) [Gahan1927, LuckDa1975, LuckDa1974].

CITATIONS: LuckDa1974 [Dev, Pa, Ho]; LuckDa1975 [Pa].

DISTRIBUTION: Nearctic: United States of America (California [Gahan1924]).

Prospaltella bella Gahan, 1927: 21. Type data: USA: MI, Ann Arbor (Agricultural College). Syntypes, both sexes.

Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 29447. Described: both sexes.

Encarsia bella; Viggiani, 1986[249]: 62-63. Described: both sexes. Illust. Change of combination.

#### Encarsia bifasciata Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurodicus sp. [SchmidPo2007b].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007b]).

*Encarsia bifasciata* Schmidt & Polaszek, 2007b: 86-87. Type data: Australia: QLD: Forty Mile Scrub. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia brahmsi (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1933440]).

Coccophagus brahmsi Girault, 1933[440]: 2[300]. Type data: Australia: Indooroopilly. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female.

Encarsia brahmsi; Hayat, 1989c: 289. Change of combination.

#### Encarsia caelata Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007b]).

*Encarsia caelata* Schmidt & Polaszek, 2007b: 88-89. Type data: Indonesia: Bogor. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

## **Encarsia caelibaris (Mercet)**

DISTRIBUTION: Palaearctic: Spain [Mercet1931a].

*Prospaltella caelibaris* Mercet, 1931a: 561. Type data: Spain: Villa Vicosa de Odon. Holotype male, by monotypy. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: male.

## Encarsia cappa Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Oueensland [SchmidPo2007a]).

*Encarsia cappa* Schmidt & Polaszek, 2007a: 2146-2147. Type data: Australia: QLD, Cockatoo Creek Crossing. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia chaoi Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia chaoi* Huang & Polaszek, 1998: 1854-1856. Type data: PRC: Fujian, Fuzhou, Jinshan. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### Encarsia chauliodoa Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Victoria [SchmidPo2007a]).

*Encarsia chauliodoa* Schmidt & Polaszek, 2007a: 2149-2150. Type data: Australia: VIC, 12 km N by W Hattah. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia clara (Dodd)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aspidiotus sp. [Dodd1917].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Northern Territory [Dodd1917]).

Coccophagus clarus Dodd, 1917: 352-353. Type data: Australia: Northern Territory, Darwin. Holotype female.

Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female. *Encarsia clara*; Viggiani, 1985[233]: 239-240. Described: female. Illust. Change of combination.

### **Encarsia clariscutellum (Girault)**

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aspidiotus perniciosus.

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238, Giraul1939453]).

Coccophagus clariscutellum Girault, 1915[238]: 51, 57. Type data: Australia: QLD, Gordonvale along Mulgrave River. Syntypes, female. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.3842. Described: female.

Prospaltella clariscutellum; Compere, 1931: 11. Change of combination.

Coccophagus clariscutellum fasciafacies Girault, 1939[453]: 16. Type data: Australia: QLD, Stanthorpe. Unknown type status female. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female. Synonymy by Noyes, 2001.

Coccophagus clariscutellum; Dahms, 1983: 183.

Encarsia clariscutellum; Viggiani, 1985[233]: 240. Described: female. Illust. Change of combination.

#### Encarsia costaricensis Evans & Angulo

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Trialeurodes vaporariorum [EvansAn1996].

DISTRIBUTION: Neotropical: Costa Rica [EvansAn1996].

*Encarsia costaricensis* Evans & Angulo, 1996: 583-586. Type data: Costa Rica: Paraiso de Cartago. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust.

### Encarsia craspedia Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia craspedia* Schmidt & Polaszek, 2007a: 2156-2157. Type data: Australia: WA: Cape Arid National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## **Encarsia dichroa (Mercet)**

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: *Aleyrodes singularis* Danzig [HernanCaAg2003]. Hosts - HEMIPTERA **Aleyrodidae**: *Aleyrodes* sp., *Siphoninus phillyreae* (Hal.) [ViggiaMa1980157, HernanCaAg2003].

CITATIONS: HernanCaAg2003 [Da, Ia, Hre]; ManzarPoBe2002 [molecular phylogenetics.]; Viggia1988277 [Tky]; Viggia1993338 [Cco, Iec, Lhi, Rng].

DISTRIBUTION: **Neotropical**: Puerto Rico & Vieques Island. **Palaearctic**: Canary Islands [HernanCaAg2003]; Italy [ViggiaMa1980157, Viggia1993338]; Spain [Viggia1988277].

*Prospaltella brunnea*; Mercet, 1921: 305. Described: both sexes. Misidentification; discovered by Mercet, 1930b: 76.

*Prospaltella dichroa* Mercet, 1930b: 76. Type data: Spain: Provincia de Madrid. Unknown type status. Described: unknown.

Encarsia dichroa; Ferrière, 1965: 139. Change of combination.

Encarsia dichroa; Viggiani, 1967[25]: 145-146. Described: both sexes. Illust. Subsequent description.

*Encarsia pseudopartenopea* Viggiani & Mazzone, 1980[157]: 9. Type data: Italy: Sicily, Bronte. Syntypes, female. Type depository: UNP. Described: female. Illust. Synonymy by Viggiani, 1987c: 139.

Encarsia dichroa; Viggiani, 1988[277]: 139-140. Described: both sexes. Illust. Subsequent description.

## Encarsia ectophaga (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Chrysomphalus dictyospermae [Silves1935].

DISTRIBUTION: **Neotropical**: Argentina [Silves1935].

*Prospaltella ectophaga* Silvestri, 1935: 131-132. Type data: Argentina: Buenos Aires. Syntypes, both sexes, by **present designation**. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: both sexes.

Prospaltella ectophaga; De Santis, 1948a: 246-250. Described: both sexes. Illust. Subsequent description.

### Encarsia elegantula Viggiani

DISTRIBUTION: Palaearctic: Italy [Viggia1988277].

*Encarsia elegantula* Viggiani, 1988[277]: 142. Type data: Italy?: Avellino. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

#### Encarsia eugeniae (Risbec) new combination

DISTRIBUTION: **Afrotropical**: Madagascar [Risbec1952].

Coccophagus eugeniae Risbec, 1952: 154-156. Type data: Madagascar: Tsimbazaza. Syntypes, female. Type

depository: CTM. Described: female. Illust.

Aspidiotiphagus eugeniae; Annecke, 1975: 2. Change of combination.

### Encarsia exserta Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia exserta* Huang & Polaszek, 1998: 1873-1874. Type data: China: Fujian, Chong'an, Xianfengling. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

#### **Encarsia filicornis (Mercet)**

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Lecanium sp. [Mercet1912b].

DISTRIBUTION: Palaearctic: Spain [Mercet1912b].

Prospaltella filicornis; Mercet, 1912a: 193-197. Described: male. Illust. Subsequent description.

Prospaltella filicornis Mercet, 1912b: 511. Type data: Spain: Madrid. Described: male.

Prospaltella filicornis; Mercet, 1930. Subsequent description.

#### Encarsia gallicola (Risbec)

DISTRIBUTION: Afrotropical: Madagascar [Risbec1952].

*Trichaporus gallicola* Risbec, 1952: 259-262.. Type data: Madagascar. Holotype female, by monotypy. Described: female. Illust.

Encarsia gallicola; Noyes, 2001. Change of combination.

### Encarsia grotei (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1931435]).

*Coccophagus grotei* Girault, 1931[435]: 1[282]. Type data: Australia: QLD, Indooroopilly. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4193. Described: female.

Coccophagus grotei: Dahms, 1984: 663.

Encarsia grotei; Viggiani, 1985[233]: 240-241. Described: female. Illust. Change of combination.

## Encarsia hapalia Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia hapalia* Schmidt & Polaszek, 2007a: 2169-2170. Type data: Australia: QLD, Forty Mile Scrub. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia horatii (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1939453]).

Coccophagus horatii Girault, 1939[453]: 18. Type data: Australia: Queensland, Indooroopilly. Syntypes, female.

Type depository: Brisbane: Queensland Museum, Queensland, Australia.

Encarsia horatii; Hayat, 1989c: 289. Change of combination.

#### **Encarsia iris (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1930432]).

Coccophagus iris Girault, 1930[432]: 4[276]. Type data: Australia: QLD, Indooroopilly. Holotype female, by

original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4012. Described: female.

Coccophagus iris; Dahms, 1984: 730.

Encarsia iris; Viggiani, 1985[233]: 241-242. Described: female. Illust. Change of combination.

#### Encarsia justicia Girault

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Encarsia justicia* Girault, 1913[167]: 187. Type data: Australia: QLD, Nelson [=Gordonvale] (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1726. Described: female.

Encarsia justicia; Dahms, 1984: 734.

Encarsia justicia; Viggiani, 1985[233]: 242. Described: female. Illust. Subsequent description.

#### Encarsia lasallei Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia lasallei* Huang & Polaszek, 1998: 1901-1903. Type data: China: Fujian, Wuyi Mountain. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### **Encarsia leptosa Schmidt & Polaszek**

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia leptosa* Schmidt & Polaszek, 2007a: 2178-2179. Type data: Australia: QLD, 14 km W by N of Hope Vale Mission. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia leucippi (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1936447]).

Coccophagus leucippi Girault, 1936[447]: 2[323]. Type data: Australia: QLD, Indooroopilly. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.9163. Described: female.

Coccophagus leucippe; Dahms, 1984: 754. Misspelling of species name.

Encarsia leucippi; Viggiani, 1985[233]: 243-244. Described: female. Illust. Change of combination.

#### Encarsia levadicola Polaszek & Hernández

ASSOCIATIONS: Associate - HEMIPTERA Alevrodidae: Bemisia lauracea (Martin et al.) [new].

DISTRIBUTION: Palaearctic: Canary Islands [HernanCaAg2003].

*Encarsia levadicola* Polaszek & Hernández, 2003: 73. Type data: Madeira: Levada da Serra. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

### Encarsia levo Hayat

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Dialeuropora decempuncta [new].

DISTRIBUTION: Oriental: India (West Bengal [Hayat2006]).

*Encarsia levo* Hayat, 2006: xx. Type data: West Bengal. Holotype female, by **present designation**. Type depository: New Delhi: National Pusa Collections, Indian Agricultural Research Institute, India. Described: female, male and larva. Illust.

## Encarsia longisetosa Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia longisetosa* Schmidt & Polaszek, 2007a: 2183-2185. Type data: Australia: QLD, Heathlands. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia longispina Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

Encarsia longispina Schmidt & Polaszek, 2007a: 2185-2186. Type data: Australia: QLD, Cockatoo Creek Crossing.

Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## **Encarsia lougae (Risbec)**

ASSOCIATIONS: Host - HEMIPTERA Coccidae [Hayat1985b].

DISTRIBUTION: Afrotropical: Senegal [Risbec1951].

Physcus lougae Risbec, 1951: 391. Type data: Senegal. Unknown type status. Described: female and larva.

*Coccobius lougae*; Hayat, 1985b: 304. Described: female and larva. Change of combination. *Encarsia lougae*; Prinsloo, 1995: 1540. Described: female and larva. Change of combination.

#### Encarsia macoensis Abd-Rabou & Ghari

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Bemisia tabaci (Genn.) [new].

DISTRIBUTION: Palaearctic: Iran [AbdrabGh2007].

Encarsia macoensis Abd-Rabou & Ghari, 2007: xx. Type data: Iran. Holotype female, by original designation.

Described: female, male and larva. Illust.

#### Encarsia maculata Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia maculata* Schmidt & Polaszek, 2007a: 2192-2193. Type data: Australia: WA, Purnululu National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia marginata Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia marginata* Huang & Polaszek, 1998: 1915-1916. Type data: China: Fujian, Chong'an, Sangang. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

#### Encarsia marxi (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1936446]).

*Coccophagus marxi* Girault, 1936[446]: 1[320]. Type data: Australia: QLD, Indooroopilly. Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.9201. Described: female.

Coccophagus marxi; Dahms, 1984: 796.

Encarsia marxi; Viggiani, 1985[233]: 244-245. Described: female. Illust. Change of combination.

#### Encarsia melanostoma Polaszek & Hernández

DISTRIBUTION: Palaearctic: Canary Islands [HernanCaAg2003].

*Encarsia melanostoma* Polaszek & Hernández, 2003: 77. Type data: Canary Islands: Tenerife. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

#### Encarsia meschervakovi Yasnosh

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Lepidosaphes japonica [Jasnos1995].

CITATIONS: Jasnos1995.

DISTRIBUTION: Palaearctic: Russia (Primor'ye Kray [Jasnos1995]).

Encarsia mestsheryakovi; Jasnosh, 1995. Misspelling of species name.

*Encarsia mescheryakovi* Yasnosh, 1995: 545. Type data: Russia: Primor'ye Kray. Unknown type status, by **present designation**. Described: female and larva.

#### Encarsia metallica (Risbec)

DISTRIBUTION: Afrotropical: Madagascar [Risbec1952].

*Trichaporus metallicus* Risbec, 1952: 256-259. Type data: Madagascar: Bekily, Vafondragy. Syntypes, female, by **present designation**. Described: female. Illust.

Encarsia metallica; Noyes, 2001. Change of combination.

### Encarsia moffsi Hulden

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Pealius quercus [Hulden1986].

DISTRIBUTION: Palaearctic: Finland [Hulden1986].

Encarsia moffsi Hulden, 1986: 19. Type data: Finland. Holotype female. Described: female. Illust.

#### Encarsia mozarti Girault

DISTRIBUTION: Australasian: Australia (Western Australia [Giraul1932439]).

Encarsia motzarti Girault, 1932[439]: 3. Type data: West Australia. Unknown type status. Described: female and larva.

### Encarsia multiciliata Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia multiciliata* Huang & Polaszek, 1998: 1919-1921. Type data: China: Fujian, Chong'an, Sangang. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### **Encarsia nigriventris (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Coccophagus nigriventris* Girault, 1913[167]: 189. Type data: Australia: QLD, Brisbane. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1731. Described: female.

Coccophagus nigriventris; Girault, 1915[238]: 47, 56. Described: female. Change of combination.

Prospaltella nigriventris; Compere, 1931: 11. Change of combination.

Encarsia nigriventris; Viggiani, 1985[233]: 245-246. Described: female. Illust. Change of combination.

Prospaltella nigriventris; Dahms, 1986: 347.

#### Encarsia nitella Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Alevrodidae: Viennotaleyrodes incomptus Martin [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia nitella* Schmidt & Polaszek, 2007a: 2200-2201. Type data: Australia: QLD, Bundaberg. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia noahi Polaszek & Hernández

DISTRIBUTION: Palaearctic: Canary Islands [HernanCaAg2003].

*Encarsia noahi* Polaszek & Hernández, 2003: 78. Type data: Canary Islands: Tenerife. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

### Encarsia orangae Raina et al.

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurocanthus nagpurensis [RainaRaKh1996].

DISTRIBUTION: Oriental: India (Maharashtra [RainaRaKh1996]).

*Encarsia orangae* Raina et al., 1996: 8-. Type data: India: Maharashtra. Syntypes, female, by **present designation**. Type depository: Nagpur: Nagpur University, India. Described: female.

### Encarsia paucisetosa Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia paucisetosa* Schmidt & Polaszek, 2007a: 2209-2210. Type data: Australia: WA, Purnululu National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia pauliani (Risbec) new combination

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Pseudaulacaspis pentagona Targ. [Risbec1952].

DISTRIBUTION: Afrotropical: Madagascar [Risbec1952].

Coccophagus Pauliani Risbec, 1952: 152-154. Type data: Madagascar: Tsimbazaza. Syntypes, female. Type depository: CTM?; type no. M. Described: female. Illust.

Aspidiotiphagus pauliani; Annecke, 1975: 2. Change of combination.

### Encarsia peltata (Cockerell)

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleyrodes pruinosa euphorbiarum* Cockerell [Cocker1911]. CITATIONS: HoelmeDa1993 [Mod, Pa, Cc].

DISTRIBUTION: Nearctic: United States of America (Colorado [Cocker1911]).

Mimatomus peltatus Cockerell, 1911: 464. Type data: USA: CO, Glenwood Springs. Lectotype female, by subsequent designation Viggiani, 1986b: 69. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 15695. Described: both

Encarsia peltata; Viggiani, 1986[249]: 69. Described: both sexes. Illust. Change of combination.

### Encarsia perpulchella (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238]).

Coccophagus perpulchellus Girault, 1915[238]: 53, 57. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2937. Described: female.

Prospaltella perpulchella; Compere, 1931: 11. Change of combination.

Encarsia perpulchella; Viggiani, 1985[233]: 246. Described: female. Illust. Change of combination.

Coccophagus perpulchellus; Dahms, 1986: 402-403.

## **Encarsia perseus (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Western Australia [Giraul1917312]).

Coccophagus ashmeadi perseus Girault, 1917[312]: 29. Type data: Australia: WA, Swan River. Lectotype female, by subsequent designation Viggiani, 1986[249]: ??. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 20683. Described: female.

*Prospaltella persea*; Compere, 1931: 11. Change of combination requiring emendation of specific epithet for agreement in gender.

Encarsia persea; Viggiani, 1986[249]: 69-70. Described: female. Illust. Subsequent description.

Encarsia persea; Schmidt & Polaszek, 2007a: 2117. Justified emendation.

#### **Encarsia picithorax (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238]).

Coccophagus lautus Girault, 1915[238]: 52, 57. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2935. Described: female. Synonymy by Schmidt & Polaszek, 2007a: 2219.

Coccophagus picithorax Girault, 1915[238]: 52, 57. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2934. Described: female.

Prospaltella lauta; Compere, 1931: 11. Change of combination.

Prospaltella picithorax; Compere, 1931: 11. Change of combination.

Coccophagus lautus; Dahms, 1984: 750.

Encarsia lauta; Viggiani, 1985[233]: 242. Described: female. Illust. Change of combination.

Encarsia picithorax; Hayat, 1989c: 289. Change of combination.

## Encarsia picta Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia picta* Huang & Polaszek, 1998: 1938-1939. Type data: China: Fujian, Fuzhou (Forest Park). Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia pilosa Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurodicus destructor Mackie [new].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007b]).

Encarsia pilosa Schmidt & Polaszek, 2007b: 90-91. Type data: Australia: QLD: Cunningham's Gap via Aratula.

Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

## Encarsia plana Viggiani & Ren

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Bambusaspis sp. [ViggiaRe1987274].

CITATIONS: Huang1994 [Tde]; ViggiaRe1993335.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [ViggiaRe1987274]).

*Encarsia plana* Viggiani & Ren, 1987[274]: 28-31. Type data: People's Republic of China: Ghuangzhou. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia plana; Huang & Polaszek, 1998: 1939-1941. Described: female. Illust. Subsequent description.

### Encarsia planchoniae Howard

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Bambusaspis delicatum [Howard1895c].

CITATIONS: Ayyar1925 [Tc]; Hayat1986 [Tc]; Mani1938 [Tc].

DISTRIBUTION: Oriental: Sri Lanka [Howard1895c].

*Encarsia planchoniae* Howard, 1895c: 635-636, 637 [CHE. Type data: Sri Lanka, Pundaluoya. Lectotype male, by subsequent designation Hayat, 1981a: 467. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 3250. Described: male.

Encarsia planchoniae; Hayat, 1981c: 467. Described: male. Subsequent description.

Encarsia planchoniae; Hayat, 1989c: 76. Described: female and larva.

#### Encarsia plaumanni Viggiani

DISTRIBUTION: Neotropical: Brazil [Viggia1988276].

*Encarsia plaumanni* Viggiani, 1988[276]: 77-80. Type data: Brazil: Nova Teutonia. Holotype female, by original designation. Type depository: Gainesville: American Entomological Institute, FL, USA. Described: female. Illust.

### Encarsia polaszeki Evans

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Bemisia tabaci (Gennadius) complex [Evans1997].

DISTRIBUTION: Neotropical: Brazil (Pernambuco [Evans1997]).

*Encarsia polaszeki* Evans, 1997: 25-26. Type data: Brasil: Pernambuco, Olinda. Holotype female, by original designation. Type depository: Ithaca: Cornell University Insect Collection, Department of Entomology, Cornell University, NY, USA; type no. USNM. Described: both sexes. Illust.

### Encarsia praegrandis Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleuroplatus [Viggia1985230].

DISTRIBUTION: Australasian: Papua New Guinea [Viggia1985230].

*Encarsia praegrandis* Viggiani, 1985[230]: 11-12. Type data: Papua New Guinea: Daulo Pass. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia; type no. 1066. Described: female. Illust.

### Encarsia prolata Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia prolata* Schmidt & Polaszek, 2007a: 2223-2225. Type data: Australia: QLD, Mossman. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia pulliclava (Girault)

CITATIONS: PolaszHa1992 [Dea, Ila]; PolaszHa1992 [No]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Western Australia [Giraul1917312]).

Coccophagus pulliclavus Girault, 1917[320]: 93. Type data: Australia: WA, Perth. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 20669. Described: female.

Prospaltella pulliclava; Compere, 1931: 11. Change of combination.

Encarsia pulliclava; Hayat, 1989c: 289. Change of combination.

#### Encarsia rentzi Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia rentzi* Schmidt & Polaszek, 2007a: 2228-2229. Type data: Australia: QLD, Curtain Fig, 2 km SW Yungaburra. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia silvifilia (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1924376]).

Coccophagus silvifilia Girault, 1924[376]: 3[180]. Type data: Australia: QLD, Flaxton, Blackall Range. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.3845. Described: female.

*Encarsia silvifilia*; Viggiani, 1985[233]: 249. Described: female. Illust. Change of combination. *Coccophagus silvifilia*; Dahms, 1986: 539-540.

#### **Encarsia socratis (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1931435]).

Coccophagus socratis Girault, 1931[435]: 3[282]. Type data: Australia: QLD, Indooroopilly. Holotype female, type designation unknown. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4950. Described: female.

Coccophagus socratis; Dahms, 1986: 544-545.

Encarsia socratis; Viggiani, 1986[249]: 74. Described: female. Illust. Change of combination.

### **Encarsia spinosa Schmidt & Polaszek**

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: *Dialeuropora decempuncta* (Quaintance & Baker) [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia spinosa* Schmidt & Polaszek, 2007a: 2239-2240. Type data: Australia: QLD, Brisbane, Long Pocket. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### **Encarsia submetallica (Girault)**

CITATIONS: SchmidPo2007a [Da. Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1930432]).

Coccophagus submetallicus Girault, 1930[433]: 6[277]. Type data: Australia: Queensland, Indooroopilly. Holotype male. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: male.

Encarsia submetallica; Hayat, 1989c: 290. Change of combination.

#### Encarsia telemachusi Evans

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurothrixus floccosus [EvansSe2002].

DISTRIBUTION: Neotropical: Haiti [EvansSe2002].

*Encarsia telemachusi* Evans, 2002: 207-208. Type data: EvansSe2002. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

## **Encarsia thoreauini (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (New South Wales [Giraul1915238]).

Coccophagus thoreauini Girault, 1915[238]: 50-51, 57. Type data: Australia: NSW, Tweed Heads, Tweed River. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2931. Described: female.

Prospaltella thoreauini; Compere, 1931: 11. Change of combination.

Encarsia thoreauini; Viggiani, 1985[233]: 252. Described: female. Illust. Change of combination.

Coccophagus thoreauini; Dahms, 1986: 587.

## **Encarsia totiaurea (Girault)**

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1930432]).

Coccophagus totiaureus Girault, 1930[432]: 3[272]. Type data: Australia: QLD, Kingston. Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4008. Described: female.

*Encarsia totiaurea*; Viggiani, 1985[233]: 252. Described: female. Illust. Change of combination. *Coccophagus totiaureus*; Dahms, 1986: 591.

#### **Encarsia toticilia Girault**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia [Giraul1936446].

Encarsia toticilia Girault, 1936[446]: 1. Type data: Australia. Unknown type status female and larva. Described: female and larva.

## Encarsia trjapitzini Jasnosh

DISTRIBUTION: Palaearctic: Russia (Primor'ye Kray [Jasnos1989]).

*Encarsia trjapitzini* Jasnosh, 1989: 117-118. Type data: Primorskiy Kray, Ussuriyskiy Reserve. Holotype female, by original designation. Type depository: St. Petersberg: (= Leningrad) Zoological Museum, Academy of Science, Russia. Described: both sexes. Illust.

#### **Encarsia whittieri Girault**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (New South Wales [Giraul1915238]).

*Encarsia whittieri* Girault, 1915[238]: 60. Type data: Australia: NSW, Tweed Heads, Tweed River. Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hv.2950. Described: female.

Encarsia whittieri; Viggiani, 1985[233]: 254. Described: female. Illust. Subsequent description.

Encarsia whittieri; Dahms, 1986: 653.

## Encarsia (Aurantii) Viggiani & Mazzone

*Prospalta* Howard, 1894b: 6. Type species: *Coccophagus aurantii* Howard. Subsequently designated by ICZN, Opinion 845, 1968: 12-13. Homonym; discovered by ??.

Prospaltella Ashmead, 1904[238]: 126. Replacement name; synonymy by Viggiani & Mazzone, 1979[144]: 44.

*Mimatomus* Cockerell, 1911: 464. Type species: *Mimatomus peltatus* Cockerell, by monotypy. Synonymy by Girault, 1917[312]: 114.

Encarsia (Aurantii) Viggiani & Mazzone, 1979[144]: 47.

Encarsia (Aurantii); Hayat, 1989: 11.

## Encarsia (Aurantii) aleurotubae Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurotuba jelineki (Frauenf.) [Viggia1982191].

DISTRIBUTION: Palaearctic: Italy [Viggia1982191].

*Encarsia aleurotubae* Viggiani, 1982[191]: 15-17. Type data: Italy: Taurasi. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

Encarsia aleurotubae; Viggiani, 1988[277]: 131. Described: both sexes. Illust. Subsequent description.

## Encarsia (Aurantii) aspidioticola (Mercet)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Dynaspidiotus britannicus* (Newst.) [Mercet1929,

ViggiaBa1984220], Nuculaspis abietus (Schr.) [Viggia1988277].

CITATIONS: Viggia1993338 [Cco, Iec, Lhi, Rng]; ViggiaBa1984219 [Lhi].

DISTRIBUTION: Palaearctic: Italy [Mercet1929, Viggia1993338]; Spain [Mercet1929]; Switzerland [Ferrie1961].

*Prospaltella aspidioticola* Mercet, 1929: 215-217. Type data: Italy: Portici. Holotype female. Type depository: UNP. Described: female.

Prospaltella aspidioticola; Mercet, 1931: 563. Subsequent description.

Prospaltella aspidioticola; Ferrière, 1961: 261. Described: both sexes. Illust. Subsequent description.

Encarsia aspidioticola; Viggiani, 1988[277]: 131-133. Described: both sexes. Illust. Change of combination.

### Encarsia (Aurantii) aurantii (Howard)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleyrodes bergi Sign.? [Howard1908a], Aleyrodes coronata Ouiantance? [Howard1908a], Aleyrodes sp.? [Howard1908a]. Diaspididae: Aonidiella aurantii citrinus (Mask.) [Silves1930, Howard1908a], Aonidiella citrina (Coquillet) [PolaszAb1999], Aonidiella orientalis (Newstead) [Hayat1989a], Aonidomytilus espinosai (Porter) [PolaszAb1999], Aspidiotus abietis, Aspidiotus ancylus Putn. [Howard1895b], Aspidiotus aurantii v. citrinus [Howard1895b], Aspidiotus destructor Signoret [PolaszAb1999], Aspidiotus ederae [Howard1895b], Aspidiotus hederae Vall. [Howard1908a], Aspidiotus juglansregiae, Aspidiotus perniciosus, Aspidiotus pini Comstock [Howard1895b], Chionaspis sp. [Howard1895b, Howard 1908a], Chrysomphalus aonidium (L.) [Silves 1930], Chrysomphalus dictyospermi (Morgan) [PolaszAb1999], Chrysomphalus fiscus Ashmead [PolaszAb1999], Diaspidiotus ancylus Putn. [Howard1908a], Diaspidiotus forbesi Johns. [Howard1908a], Diaspidiotus howardi, Diaspidiotus juglansregaie Comstock [Howard1908a], Diaspidis amygdali, Diaspis pentagona, Hemiberlesia lataniae (Signoret) [Hayat1989a], Hemiberlesia rapax (Comstock) [PolaszAb1999], Lepidosaphes albus v. concolor Ckll. [Howard1895b, Howard1908a], Lepidosaphes beckii Newm. [Howard1908a], Lepidosaphes eucalypti Crawford [Howard1895b, Howard 1908a], Lepidosaphes gloveri Pack. [Silves 1930, Howard 1908a], Lepidosaphes japonica Cockerell [PolaszAb1999], Lepidosaphes newsteadi Sulc [PolaszAb1999], Lepidosaphes pinnaeformis, Leucaspis pini, Lindingaspis fusca (Maskell) [Hayat1989a], Melanaspis obscura (Comstock) [PolaszAb1999], Mytilaspis citricola Pack. [Howard1895b], Parlatoria oleae Colvee [PolaszAb1999], Pinnaspis strachani (Cooley) [Hayat1989a], Ouadraspidiotus ostreaeformis (Curtis) [PolaszAb1999], Ouadraspidiotus perniciosus Comstock [PolaszAb1999].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics]; Comper1936; DeSant1979a [Tc]; Ferrie1961; Gordh1979 [Tc]; Hayat1986 [Tc]; NikolsTr1965 [Tn]; Peck1963 [Tc]; Rust1913 [Ila].

DISTRIBUTION: Australasian: Australia (South Australia [Howard1895b, Howard1908a]). Nearctic: United States of America (California [Howard1895b, Howard1908a], District of Columbia [Howard1895b], New Mexico [Howard1895b], New York [Howard1895b]). Neotropical: Argentina [Brethe1914] [DeSant1948a]. Oriental: India (Andhra Pradesh [Hayat1989a], Karnataka [Hayat1989a]); Sri Lanka [Hayat1989a]. Palaearctic: China [Howard1908a, Silves1930]; Egypt [PolaszAb1999]; Italy [Howard1895b].

Coccophagus aurantii Howard, 1894a: 231. Type data: USA: CA, San Gabriel. Lectotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 709. Described: female.

Prospalta aurantii; Howard, 1894b: 7. Described: female. Illust. Change of combination.

Prospaltella aurantii; Howard, 1908: 293. Described: unknown. Change of combination.

Prospaltella aurantii; Mercet, 1912a: 181-182. Described: female. Illust. Subsequent description.

Prospaltella aurantii; Brethes, 1914: 9-12. Described: female and larva. Subsequent description.

Coccophagus aurantii; Girault, 1915[238]: 48, 56. Subsequent description.

Prospaltella aurantii; Silvestri, 1930: 49-51. Described: both sexes. Illust. Subsequent description.

Prospaltella aurantii; De Santis, 1948a. Described: female. Subsequent description.

Prospaltella aurantii; Ferrière, 1961. Described: female. Illust. Subsequent description.

Encarsia aurantii; Viggiani & Mazzone, 1979[144]: 44,47. Change of combination.

Encarsia aurantii; Viggiani, 1986[249]: 60. Described: female. Illust. Subsequent description.

Encarsia aurantii; Hayat, 1998: 220-221. Described: female. Illust. Subsequent description.

Encarsia aurantii; Polaszek, Abd-Rabou and Huang, 1999: 137-139. Illust. Subsequent description.

### Encarsia (Aurantii) berlesei (Howard)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Melanaspis obscurus* (Comstock) [Peck1963], *Pinnaspis minor* (Maskell) [LiaoLiPa1987], *Pinnaspis strachani* Cooley [Hayat1989a], *Pinnaspis strachani* Coolley [Hayat1989a], *Pseudaulacaspis pentagona* Targioni-Torzetti [Nakaya1921, Dozier1933a, NalepaMe1990, DeSant1979a, MeyerAn1991, Viggia1988277, Viggia1990299, Silve].

CITATIONS: DeBachRo1981 [Dea, Ila]; DeSant1979a [Tc]; Ferrie1965; GaronnVi1988; Grisse1979 [Dea]; Hertin1972 []; Howard1907; Howard1908a [Dea, Ran]; Howard1912; Howard1916; Huang1994 [Tde]; HuangPo1998; LiaoLiPa1987; Masi1908; MeyerAn1991 [Em, Mor, Pa, Cc]; NalepaMe1990 [Em, Pa, Syb, Bc, Cc]; NikolsTr1965 [Tn]; Peck1963 [Tc]; PruthiMa1940; SandsBrLi1990 [No, Ila, Int]; SandsBrLi1990 [No, Ila, Bc]; Sheng1989; Viggia1989306 [Nun]; Viggia1993338 [Cco, Iec, Lhi, Rng]; ViggiaMa1979144.

DISTRIBUTION: Australasian: American Samoa [SandsBrLi1990]. Nearctic: United States of America

[HuangPo1998] (Washington [Howard1906]). **Neotropical**: Argentina [DeSant1948a]; Brazil [HuangPo1998]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Zhejiang (=Chekiang) [HuangPo1998]); Sri Lanka [Hayat1989a]; Taiwan [Silves1930]. **Palaearctic**: Egypt [PolaszAb1999]; France [Ferrie1961]; Hungary [Erdos1958]; Italy [Viggia1993338, Howard1908a]; Japan [Nakaya1921]; USSR [HuangPo1998]; Yugoslavia [Bachma1953].

Prospalta berlesei Howard, 1906: 292-293. Type data: Italy: Florence. Syntypes, female. Type depository:Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 9942. Described: female. Illust.

Prospaltella berlesei; Howard, 1908a: 283. Described: female and larva. Change of combination.

Prospaltella Berlesei; Mercet, 1912a: 182-186. Described: both sexes. Illust. Subsequent description.

Prospaltella berlesei; Silvestri, 1930: 62-64. Described: female. Illust. Misidentification.

Prospaltella berlesei; De Santis, 1948a: 241-246. Described: female. Illust. Subsequent description.

Prospaltella berlesei; Ferrière, 1961: 261-263. Described: female. Illust. Subsequent description.

Encarsia berlesei; Viggiani, 1988[259]: 134-136. Described: female. Illust. Change of combination.

Encarsia berlesei; Huang & Polaszek, 1998: 1848-1850. Described: female. Illust. Subsequent description.

Encarsia berlesei; Polaszek, Abd-Rabou and Huang, 1999: 139-141. Illust. Subsequent description.

### Encarsia (Aurantii) bicolor (Timberlake)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aspidiotus cydoninae Comstock.

DISTRIBUTION: Australasian: Hawaiian Islands. Neotropical: Argentina [DeSant1948a].

*Prospaltella bicolor* Timberlake, 1926: 310. Type data: USA: Oahu, Honolulu. Holotype female, by original designation. Type depository: Honolulu: Bernice P. Bishop Museum, Dept. Ent. Coll., HI, USA. Described: female.

*Encarsia bicolor*; De Santis, 1948a: 256-259. Described: female. Illust. Subsequent description. *Encarsia bicolor*; Viggiani, 1986[249]: 64. Described: female. Illust. Change of combination.

### Encarsia (Aurantii) brachyura Huang & Polaszek

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia brachyura* Huang & Polaszek, 1998: 1852-1853. Type data: PRC; Fujian, Chong'an, Pikeng. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Aurantii) brimblecombei (Girault)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Chionaspis citri.

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia [Giraul1933440].

Coccophagus brimblecombei Girault, 1933[440]: 4. Type data: Australia: Forest Hill. Syntypes, female, type designation unknown. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.8696. Described: female.

Coccophagus brimblecombei; Dahms, 1983: 152.

Encarsia brimblecombei; Viggiani, 1985[233]: 238. Described: female. Illust. Change of combination.

## Encarsia (Aurantii) brittanica (Girault)

DISTRIBUTION: Australasian: Australia [Giraul1915255].

Coccophagus brittanicus Girault, 1915255: 217. Type data: England. Lectotype female, by subsequent designation Boucek & Graham, 1978. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 19632. Described: female.

Prospaltella brittanica; Compere, 1931: 11. Change of combination.

Prospaltella brittanica; Erd's, 1958: 423. Described: male. Subsequent description.

Encarsia brittanica; Viggiani, 1985[232]: 81. Described: female. Illust. Change of combination.

### Encarsia (Aurantii) circumsculpturata Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Bemisaleyrodes [Viggia1985232].

DISTRIBUTION: Afrotropical: Kenya.

*Encarsia circumsculpturata* Viggiani, 1985[232]: 82-82. Type data: Kenya: Matuga. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

## Encarsia (Aurantii) coimbatorensis Hayat

DISTRIBUTION: Oriental: India (Tamil Nadu [Hayat1989a]).

*Encarsia coimbatorensis* Hayat, 1989a: 36-37. Type data: India: Tamil Nadu, Coimbatore. Holotype female. Type depository: London: Natural History Museum, England. Described: female.

Encarsia coimbatorensis; Hayat, 1998: 225. Described: female. Illust. Subsequent description.

### Encarsia (Aurantii) diaspidicola (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Pseualacaspis pentagona* [Silves1909, HuangPo1998], *Quadraspidiotus perniciosus* [Peck1963].

CITATIONS: Burks1958; Hayat1989a; Hertin1972; Peck1951; Thomps1953; ViggiaMa1979144; ViggiaRe1993335.

DISTRIBUTION: **Afrotropical**: South Africa [Silves1909]. **Neotropical**: Brazil [Dozier1933a]; Haiti [Dozier1933a]; Puerto Rico & Vieques Island [Dozier1933a]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998]).

*Prospaltella diaspidicola* Silvestri, 1909: 564-565. Type data: South Africa: Cape Town, Wellington. Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female.

Prospaltella diaspidicola; Mercet, 1912a: 189-190. Described: female. Subsequent description.

Prospaltella diaspidicola; Gahan, 1924: 14. Subsequent description.

Prospaltella diaspidicola; Silvestri, 1930: 64-66. Described: female. Illust. Subsequent description.

Encarsia diaspidicola; Huang & Polaszek, 1998: 1863-1865. Described: female. Illust. Subsequent description.

## Encarsia (Aurantii) divergens (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurocanthus woglumi (Ashby) [DeSant1979a].

CITATIONS: DeSant1979a [Tc]; Flande1969; Hayat1986 [Tc].

DISTRIBUTION: Oriental: India (Assam [Hayat1989a]); Singapore [Silves1926].

Prospaltella divergens Silvestri, 1926: 182-184. Type data: Mexico/Cuba - Singapore in Zoo.Rec. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia divergens; Viggiani & Mazzone, 1979[144]: 45. Change of combination.

Encarsia divergens; Hayat, 1998: 221. Described: female. Illust. Subsequent description.

## Encarsia (Aurantii) explorata (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Lepidosaphes sp. [Silves1930].

DISTRIBUTION: Palaearctic: Japan [Silves1930].

*Prospaltella explorata* Silvestri, 1930: 61-62. Type data: Japan: Kumamoto. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

### Encarsia (Aurantii) fasciata (Malenotti)

ASSOCIATIONS: Hosts - HEMIPTERA Coccidae: Mytilococcus destefanii? [HuangPo1998]. Diaspididae: Aulacaspis rosae [Ferrie1965], Carulaspis visci (Schraeder) [Gordh1979], Chrysomphalus dictyospermi (Morg.) [Mercet1924], Pseudaonidia duplex (Cockerell) [Gordh1979], Quadraspidiotus lenticularis [HuangPo1998], Quadraspidiotus perniciosus (Comst.) [Viggia1988277].

CITATIONS: BennasBi1960 [Bio]; Ferrie1965; Gordh1979; Grisse1979; Mercet1921; Mercet1931b; Peck1951; Peck1963; Thomps1953; ViggiaMa1979144.

DISTRIBUTION: **Nearctic**: United States of America [Gordh1979, Peck1951, Peck1963]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998]). **Palaearctic**: France [HuangPo1998, Poutie1928]; Germany [Ferrie1961]; Iran [Kiriuk1946]; Italy [Goidan1946, Maleno1917b]; Spain [HuangPo1998]; Switzerland [Ferrie1961].

*Prospaltella fasciata* Malenotti, 1917b: 195-196. Type data: Italy: Florence. Unknown type status female, by monotypy. Type depository: ?ISZA. Described: female. Illust.

Prospaltella fasciata; Ferrière, 1961: 255, 259-260. Subsequent description.

Encarsia fasciata; Viggiani, 1988[277]: 142-144. Described: female. Illust. Change of combination.

### Encarsia (Aurantii) fuzhouensis Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia fuzhouensis* Huang & Polaszek, 1998: 1884-1885. Type data: PRC: Fujian, Fuzhou (Forest Park). Holotype female, by original designation. Type depository: FAO. Described: female. Illust.

### Encarsia (Aurantii) gigas (Tchumakova)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Quadraspidiotus* sp. [Viggia1988277], *Quadraspidiotus* slavonicus Green. [Jasnos1973].

CITATIONS: Viggia1980160 [Nut].

DISTRIBUTION: Palaearctic: Italy [Tchuma1957].

Prospaltella gigas Tchumakova, 1957: 541. Type data: Italy: Avellino, Mirafiori.

Prospaltella gigantis; Erd's, 1958: 93. Misspelling of species name.

Prospaltella gigas; Ferrière, 1961: 267-268. Described: both sexes. Illust. Subsequent description.

Encarsia gigas; Viggiani, 1980[160]: 28. Described: male. Illust.

Encarsia gigas; Viggiani, 1988[277]: 146-147. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Aurantii) herndoni (Girault)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: Aonidiella aurantii (Mask.) [Silves1930], Chrysomphalus aonidium (L.) [Silves1930], Cornuaspis beckii [HuangPo1998], Cornuaspis gloverii [HuangPo1998], Fiornia theae [Hayat1989a], Insulaspis gloverii (Packard) [Viggia1990299, Silves1930], Lepidosaphes gloverii [Viggia1986249], Lepidosaphes ulmi (L.) [Viggia1988277], Parlatoria ziziphi [HuangPo1998].

CITATIONS: Huang1994 [Tde]; ViggiaRe1993335.

DISTRIBUTION: **Nearctic**: United States of America (California [Viggia1990299]). **Neotropical**: Puerto Rico & Vieques Island [HayatAy1998] [HuangPo1998]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Hunan [HuangPo1998], Jiangsu (=Kiangsu) [HuangPo1998], Sichuan (=Szechwan) [HuangPo1998]); India (Assam [Hayat1989a]); Taiwan [HuangPo1998]. **Palaearctic**: China [HayatAy1998] [ViggiaLi1990297]; Italy [Viggia1988277]; Spain [HuangPo1998].

*Prospaltella aurantii*; (Howard); Silvestri, 1929: 902. Misidentification; discovered by Huang & Polaszek, 1998: 1869.

*Prospaltella aurantii*; (Howard); Silvestri, 1931a: 49-51. Described: female. Illust. Misidentification; discovered by Huang & Polaszek, 1998: 1869.

Coccophagus herndoni Girault, 1935[445]: 3[317]. Type data: China: Foochow [Fuzhou], Changsha, Soochow [Suzhou]. Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Prospaltella elongata Dozier, 1937: 128-129. Type data: USA: LA, New Orleans. Syntypes. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Synonymy by Noyes, 2001.

Prospaltella elongata; Compere, 1961: 267.

Prospaltella herndoni; (Girault); DeSantis, 1979b: 133-136. Described: female and larva.

Encarsia herndoni; (Girault); Viggiani, 1986[249]: 64-66. Described: both sexes. Illust. Subsequent description.

Encarsia herndoni; (Girault); Viggiani, 1988[277]: 147-149. Described: both sexes. Illust. Subsequent description.

Encarsia elongata; Hayat, 1989a: 47-48. Described: female. Illust. Incorrect synonymy.

Encarsia elongata; Huang, 1994: 215. Described: female and larva. Subsequent description.

Encarsia elongata; Hayat, 1998: 227-228. Described: female. Illust. Subsequent description.

## Encarsia (Aurantii) inquirenda (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: Aonidiella aurantii [HuangPo1998], Chrysomphallus aonidum [Silves1930, HuangPo1998], Chrysomphalus dictyospermi (Morg.) [Viggia1988277, HuangPo1998], Cornaspis gloveri [Silves1930], Lepidosaphes gloverii [Silves1930], Parlatoria oleae [Silves1930], Parlatoria pergandii Comst. [Viggia1988277], Quadraspidiotus perniciosus (Comst.) [Viggia1988277], Unaspis citri [HuangPo1998]

CITATIONS: Ferrie1965; Hayat1989a; Huang1994 [Tde]; NikolsJa1966; Silves1929 [host cited but species not described.]; Thomps1953; Viggia1988277; ViggiaMa1979144; ViggiaRe1993335; Wu1941.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Hunan [HuangPo1998]). **Palaearctic**: Algeria [Ferrie1961]; Italy [Viggia1988277].

*Prospaltella inquirenda* Silvestri, 1930: 53-55. Type data: People's Republic of China: Guik Su (Fuzhou); Japan: Okitsu. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Prospaltella inquirenda; Ferrière, 1961. Described: female. Illust. Subsequent description.

Encarsia inquirenda; Viggiani, 1988[277]: 149. Described: female. Illust. Change of combination.

Encarsia inquirenda; Huang & Polaszek, 1998: 1893-1895. Described: female and larva. Subsequent description.

#### Encarsia (Aurantii) inserens (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Lepidosaphes gloverii [Silves1930].

DISTRIBUTION: Palaearctic: Japan [Silves1930].

Prospaltella inserens Silvestri, 1930: 59-60. Type data: Japan: Itami, Yuasa. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

### Encarsia (Aurantii) insulana Hayat

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aspidiotus sp. [Hayat1989a].

DISTRIBUTION: Australasian: Solomon Islands [Hayat1989b].

*Encarsia insulana* Hayat, 1989b: 164-165. Type data: Solomon Islands: Guadalcanal, Dodo Creek. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

#### Encarsia (Aurantii) intermedia (Ferrière)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Lepidosaphes newsteadi* [Ferrie1965], *Leucaspis loewi* [Ferrie1965], *Leucaspis pini* [Ferrie1965].

DISTRIBUTION: Palaearctic: France [Ferrie1965]; Germany [Ferrie1961]; Switzerland [Ferrie1961].

*Prospaltella intermedia* Ferrière, 1961: 264-265. Type data: Switzerland: Valais; France: Mont-Ventoux; Germany: Munich. Syntypes, both sexes, by **present designation**. Type depository: Geneva: Museum d'Historie Naturelle, Switzerland. Described: both sexes.

*Prospaltella intermedia*; Ferrière, 1965: 159-160. Described: both sexes. Illust. Subsequent description. *Encarsia intermedia*; Hayat, 1989a: 11.

## Encarsia (Aurantii) ixorae Krishnan & Vasantharaj David

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeurodes ixorae [HayatAy1998].

DISTRIBUTION: Oriental: India (Tamil Nadu [KrishnVa1996]).

Encarsia ixorae Krishnan & Vasantharaj David, 1996: 22. Type data: India: Padappai. Unknown type status female, by **present designation**. Type depository: DAVID COLL.. Described: female. Illust.

Encarsia ixorae; Hayat, 1998: 219-220. Described: female. Subsequent description.

### Encarsia (Aurantii) koebelei (Howard)

ASSOCIATIONS: Hosts - *Kermes* [Howard1908a]. HEMIPTERA **Diaspididae**: *Aspidiotus longispina* Morg. [Howard1908a].

CITATIONS: Howard1908a [Dea].

DISTRIBUTION: Australasian: Hawaiian Islands [Howard1908a].

Prospaltella koebelei Howard, 1908a: 282. Type data: Hawaii[CHECK]. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 12162. Described: female.

Prospaltella Koebelei; Mercet, 1912a: 199. Described: female. Subsequent description.

Encarsia koebelei; Hayat, 1989c: 289. Change of combination.

### Encarsia (Aurantii) leucaspidis (Mercet)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Leucaspis lowi* [Ferrie1961], *Leucaspis pini* [Ferrie1961], *Leucaspis pusilla* Loew. [Viggia1988277], *Leucaspis signoreti* [Ferrie1961].

DISTRIBUTION: **Palaearctic**: France [Ferrie1961]; Hungary [Erdos1958]; Italy [Viggia1988277]; Switzerland [Mercet1912b].

*Prospaltella leucaspidis* Mercet, 1912a: 213. Type data: Spain: Madrid. Syntypes, both sexes. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: both sexes. Illust.

Prospaltella coniferarum Ghesqui Ere, 1948: 296. Described: female. Synonymy by Ferrière, 1961: 257.

Prospaltella leucaspidis; Ferrière, 1961: 257-259. Described: both sexes. Illust. Subsequent description.

Encarsia leucaspidis; Viggiani & Mazzone, 1979[144]: ??. Change of combination.

Encarsia leucaspidis; Viggiani, 1988[277]: 150-152. Described: both sexes. Illust. Subsequent description.

Encarsia leucaspidis; Hayat, 1989a: ??.

## Encarsia (Aurantii) minuta Viggiani

DISTRIBUTION: Afrotropical: Senegal [Viggia1989305].

*Encarsia minuta* Viggiani, 1989[305]: 179-180. Type data: Senegal: Cape Verde Island, S. Jorge. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

#### Encarsia (Aurantii) narayanani Agarwal

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [HayatAy1998], *Aleurodes hussini* [Hayat1989a]. **Coccidae**: *Rastrococcus iceryoides* Green? [Agarwa1964].

CITATIONS: Hayat1986 [Tc].

DISTRIBUTION: **Oriental**: India (Karnataka [HayatAy1998], Maharashtra [HayatAy1998], Orissa [HayatAy1998], Uttar Pradesh [Agarwa1964]).

*Encarsia narayanani* Agarwal, 1964: 283-285. Type data: India:Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female. Illust.

Encarsia narayani; Mani, 1989: 1147. Described: female and larva. Misspelling of species name.

Encarsia narayanani; Hayat, 1989a: 57. Described: female. Illust. Subsequent description.

Encarsia narayanani; Hayat, 1998: 218. Described: female. Illust. Subsequent description.

#### Encarsia (Aurantii) niigatae (Nakayama)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Pseudaulacaspis pentagona [Nakaya1921].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998]. Palaearctic: Japan [Nakaya1921].

*Prospaltella niigatae* Nakayama, 1921: 99. Type data: Japan: Tookamachi, Niigata-ken. Syntypes, female. Described: female.

Prospaltella niigatae; Silvestri, 1930: 55-57. Described: female. Illust. Subsequent description.

*Prospaltella niigatae transiens* Silvestri, 1930: 57. Type data: Japan: Nagasaki. Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. Synonymy by Noyes, 2001.

Encarsia niigatae; Viggiani & Mazzone, 1979[144]. Described: female and larva. Change of combination.

Encarsia niigatae; Huang & Polaszek, 1998: 1865, 1922-1924. Described: female. Illust. Revived rank.

### Encarsia (Aurantii) noyesana Huang & Polaszek

DISTRIBUTION: Oriental: China (Guangdong (=Kwangtung) [HuangPo1998]).

*Encarsia noyesana* Huang & Polaszek, 1998: 1925-1927. Type data: China: Guangdong, Panyu. Holotype female, type designation unknown. Type depository: FAU. Described: female. Illust.

### Encarsia (Aurantii) nupta (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aonidiella aurantii (Mask.) [Silves 1930].

DISTRIBUTION: Oriental: Philippines (Luzon [Silves1930]).

Prospaltella nupta Silvestri, 1930: 51-53. Type data: Philippines: Tanauan (Luzon). Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia nupta; Hayat, 1989a: 11, 20. Change of combination.

#### Encarsia (Aurantii) obtusiclava Havat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocanthus spiniferus* [Huang1994]. **Diaspididae**: *Aulacaspis tubercularis*? [Hayat1989a].

CITATIONS: Huang1994 [Tde].

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]); India (Karnataka [Hayat1989a], Uttar Pradesh [Hayat1989a]); Taiwan [HuangPo1998]. **Palaearctic**: China [HayatAy1998].

*Encarsia obtusiclava* Hayat, 1989a: 55-56. Type data: India: Uttar Pradesh, Sitapur. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 26E. Described: female.

*Encarsia obtusiclava*; Huang & Polaszek, 1998: 1927-1929. Described: both sexes. Illust. Subsequent description. *Encarsia obtusiclava*; Hayat, 1998: 225-226. Described: both sexes. Illust. Subsequent description.

### Encarsia (Aurantii) occultans Hayat

ASSOCIATIONS: Host - Aleyrodidae [HayatAy1998].

DISTRIBUTION: Oriental: India (Bihar [HayatAy1998], Orissa [HayatAy1998], Uttar Pradesh [HayatAy1998]).

Encarsia occultans Hayat, 1998: 217-218. Type data: India: Bihar, Ranchi. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

#### Encarsia (Aurantii) olivina (Masi)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurolobus olivinus* Silv. [Masi1910, Masi1911, Viggia1982191], *Aleurolobus wunni* (Ryberg) [Viggia1982191], *Pealius* [Viggia1988277].

CITATIONS: ViggiaMa1979144 [Tcl].

DISTRIBUTION: Palaearctic: Italy [Masi1910, Masi1911].

*Prospaltella olivina* Masi, 1910: 145-147. Type data: Italy: Catanzaro. Holotype female. Type depository: UNP. Described: female.

Prospaltella olivina; Masi, 1911: 145. Described: female. Subsequent description.

Prospaltella olivina; Mercet, 1912a: 207-209. Described: female. Subsequent description.

Encarsia olivina; Viggiani, 1982[191]: 11-13. Described: both sexes. Illust. Change of combination.

Encarsia olivina; Viggiani, 1988[277]: 156-157. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Aurantii) paradiaspidicola Viggiani

DISTRIBUTION: Afrotropical: Senegal [Viggia1989305].

*Encarsia paradiaspidicola* Viggiani, 1989[305]: 180-182. Type data: Senegal: Cape Verde Island, S. Jorge. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

## Encarsia (Aurantii) perniciosi (Tower)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: Aonidiella aurantii Maskell [Stouth1991, MurdocLuWa1989], Lepidosaphes ulmi (L.) [Gordh1979], Parlatoria acalcarata M. [HuangPo1998], Quadraspidiotus gigas [HuangPo1998], Quadraspidiotus perniciosus (Comst.) [Viggia1988277, Jasnos1973, Stouth1991, RiceJo1982, RiceJo1982, McClaiRoSt1990, MasoodTrBh1989, Masoo]. HYMENOPTERA **Aphelinidae**: Encarsia perniciosi Tower [Stouth1991].

CITATIONS: Argyri1981 [Int, Bp, Cc, Bc]; BabcocHeDe2001 [morphological and molecular phylogenetics]; Clause1956; Clause1978; Coplan1976 [Ila, Ov]; DeBach1953 [Co, Int, bc]; DeSant1979a [Tc]; Ferrie1961 [Intm]; Ferrie1965; Flande1953; Gahan1927; Hayat1981a; Hayat1986; Hayat1989a; Hertin1972; Hunter1989b [Ov]; Jasnos1978; ManzarPoBe2002 [molecular phylogenetics.]; MasoodTrBh1989 [Pa, Bc]; MasoodTrBh1989 [Mor, Cc]; MathysGu1965; McClaiRoSt1990 [Dev, Ser, Mod, Ov, Bc]; MurdocLuWa1989 [Pa, Ov]; NarayaRaSu1967 [Bc]; NikolsJa1966; NikolsTr1965 [Tn]; Peck1951; Peck1963 [Tc]; RiceJo1982 [Mor, Hs, Bco]; RiceJo1982 [Pa, Hc, Hs, Po, Bc]; SchmidPo2007a [Da, Ila, Rr]; Singh1961 [Bc]; Stouth1991 [Ka, Int, Em, Ser, Cou,, Hc, Hy]; Viggia1989305 [Tky; compared to ]; Viggia1990299 [Lbe]; ViggiaRe1993335.

DISTRIBUTION: Neotropical: Argentina [DeSant1948a]. Oriental: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Jiangxi (=Kiangsi) [HuangPo1998], Zhejiang (=Chekiang) [HuangPo1998]); India (Himachal Pradesh [Hayat1989a], Jammu & Kashmir [Hayat1989a], Punjab [Hayat1989a], Uttar Pradesh [Hayat1989a]); Taiwan [HuangPo1998]. Palaearctic: China (Heilongjiang (=HeilungKiang) [HuangPo1998], Liaoning [HuangPo1998]); Czechoslovakia [Ferrie1961]; France [Ferrie1961]; Germany [Ferrie1961]. Palaearctic: Italy [Viggia1988277]. Palaearctic: Russia [Jasnos1973]; Yugoslavia [Ferrie1961].

Prospaltella perniciosi Tower, 1913: 125-126. Type data: USA: Massachusetts, Amherst. Syntypes, both sexes. Type depositories: MSCA, and Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes.

Prospaltella aurantii argentina DeSantis, 1948a: 238-241. Type data: Argentina: Fuerte General Roca. Holotype female, by original designation. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female. Illust. Synonymy by DeSantis, 1979a: 335.

Prospaltella perniciosi Ferrière, 1961: 266-267. Neotype female and larva, by present designation. Type depository: Ithaca: Cornell University Insect Collection, Department of Entomology, Cornell University, NY, USA. Described: both sexes. Illust.

Encarsia perniciosi; Viggiani, 1988[277]: 162-163. Described: female. Illust. Change of combination.

Encarsia perniciosi; Hayat, 1989a: 53-54. Described: both sexes. Illust. Subsequent description.

Encarsia perniciosi; Huang & Polaszek, 1998: 1932-1933. Described: both sexes. Illust. Subsequent description.

Encarsia perniciosi; Hayat, 1998: 222-224. Described: both sexes. Illust. Subsequent description.

## Encarsia (Aurantii) peruviana (Rust)

ASSOCIATIONS: Hosts - HEMIPTERA Diaspididae: Hemichionaspis minor, Piannaspis stachani Cool...

CITATIONS: Rust1913 [Dea].

DISTRIBUTION: Neotropical: Peru [Rust1913].

Prospaltella peruviana Rust, 1913: 161-162. Type data: Peru: Macacara. Holotype female. Type depository:Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 41386. Described: female.

*Encarsia peruviana*; Viggiani, 1986[249]: 72-73. Described: female. Illust. Change of combination. *Encarsia peruviana*; Hayat, 1989: ??. Change of combination.

### Encarsia (Aurantii) portoricensis Howard

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleuroplatus* sp. [Evans1993], *Aleurothrixus floccosus* (Mask.) [Evans1993], *Aleyrodes* [Howard1907]. **Diaspididae**: *Comstockiella sabalis* Comst.? [Evans1993]. DISTRIBUTION: **Nearctic**: Mexico [Howard1907]; Puerto Rico & Vieques Island [Howard1907].

*Encarsia portoricensis* Howard, 1907: 77-78. Type data: Puerto Rico: Bayamon. Lectotype female, by subsequent designation Viggiani, 1986b: 73. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 10301. Described: female.

Encarsia portoricensis; Mercet, 1912a: 164. Described: female. Subsequent description.

Encarsia portoricensis; Viggiani, 1986[249]: 73. Described: female. Illust. Subsequent description.

### Encarsia (Aurantii) pura Hayat

ASSOCIATIONS: Host - HEMIPTERA Coccidae: Rastrococcus iceryoides? [Hayat1989a].

DISTRIBUTION: Oriental: India (Maharashtra [Hayat1989a]).

Encarsia pura Hayat, 1989a: 54-55. Type data: India: Maharashtra, Kolhapur. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 58E. Described: female. Illust.

Encarsia pura; Hayat, 1998: 218-219. Described: female. Illust. Subsequent description.

#### Encarsia (Aurantii) sankarani Havat

ASSOCIATIONS: Host - HEMIPTERA **Diaspididae**: Fiornia theae [Hayat1989a].

DISTRIBUTION: Oriental: India (Assam [Hayat1989a]).

*Encarsia sankarani* Hayat, 1989a: 45-46. Type data: India: Assam. Holotype female, by original designation. Type depository: London: Natural History Museum, England; type no. 8457. Described: female.

Encarsia sankarani; Hayat, 1998: 224. Described: female. Illust. Subsequent description.

## Encarsia (Aurantii) silvestrii Viggiani & Mazzone

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Bemisia, Bemisia afer (Priesner & Hosny), Bemisia citricola Gom..

CITATIONS: Hayat1984a [Dea].

DISTRIBUTION: Palaearctic: Italy [Viggia1988277].

*Encarsia silvestrii* Viggiani & Mazzone, 1979[144]: 48. Type data: Italy: Portici, Palermo?. Holotype female, by original designation. Type depository: UNP. Described: female.

Encarsia silvestrii; Viggiani, 1988[277]: 163-165. Described: both sexes. Illust. Subsequent description.

### Encarsia (Aurantii) smithi (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus citriperdus Quaintance & Baker [HuangPo1998], Aleurocanthus husseini? [Hayat1989a], Aleurocanthus spiniferus Q. [Silves1928, HuangPo1998], Aleurocanthus woglumi (Ashby)? [Thomps1985, NguyenBrPo1983, NguyenSa1987, Hayat1989a, HuangPo1998], Bemisia tabaci (Gennadius)? [HayatAy1998]. HYMENOPTERA **Aphelinidae**: Encarsia opulenta Silvestri [NguyenBrPo1983, NguyenSa1987], Encarsia smithi Silvestri [NguyenSa1987].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics]; ChienCh1986; DeSant1979a [Tc]; Flande1969; Huang1994 [Tde]; KrishnUs1954; LiaoLiPa1987; LinWeTa1975; ManzarPoBe2002 [molecular phylogenetics.]; NguyenBrPo1983 [Pa, Ov, Hc, Hy, Bco, Po]; NguyenSa1987 [Dea, Ila, Ili, Sed, Int, Fe, Hc, Hy, Po]; PruthiSa1942; Ren1988; Samuel1950; Shafee1973; Thomps1953; Thomps1985 [Mor, Bc]; ViggiaRe1993335; Wu1941.

DISTRIBUTION: **Nearctic**: Mexico [HayatAy1998]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Guangxi (=Kwangsi) [HuangPo1998], Hunan [HuangPo1998],

Sichuan (=Szechwan) [HuangPo1998], Zhejiang (=Chekiang) [HuangPo1998]); Hong Kong [Silves1928]; India (Maharashtra [Hayat1989a]); Macau [HuangPo1998]; Maldives [HuangPo1998]; Pakistan [Huang1994]; Taiwan [HayatAy1998]. **Palaearctic**: China [HayatAy1998]; Japan [HayatAy1998].

*Prospaltella smithi* Silvestri, 1926: 179-182. Type data: China: Canton [Guangdong]. Syntypes, both sexes (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: both sexes. Illust.

Prospaltella Smithi; Silvestri, 1928: 20-23. Described: both sexes. Illust. Subsequent description.

Encarsia smithi; Viggiani & Mazzone, 1979[144]: 45. Described: female and larva. Change of combination.

Encarsia smithi; Hayat, 1986: 163. Described: female and larva. Change of combination.

Encarsia smithi; Huang & Polaszek, 1998: 1949-1950. Described: both sexes. Illust. Subsequent description.

Encarsia smithi; Hayat, 1998: 221-222. Described: female. Illust. Subsequent description.

#### Encarsia (Aurantii) swifti (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238]).

Coccophagus swifti Girault, 1915[238]: 50, 57. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2929. Described: female.

Prospaltella swifti; Compere, 1931: 11. Change of combination.

Encarsia swifti; Viggiani, 1985[233]: 249-250. Described: female. Illust. Change of combination.

Coccophagus swifti; Dahms, 1986: 576.

### Encarsia (Aurantii) tennysoni (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1931435]).

Coccophagus tennysoni Girault, 1931[435]: 3[282]. Type data: Australia: QLD, Nelson [=Gordonvale]. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.3876. Described: female.

*Encarsia tennysoni*; Viggiani, 1985[233]: 251-252. Described: female. Illust. Change of combination. *Coccophagus tennysoni*; Dahms, 1986: 581.

## Encarsia (Aurantii) trivittata Hayat

ASSOCIATIONS: Host - HEMIPTERA Alevrodidae: Aleurolobus [Hayat1989a].

DISTRIBUTION: Oriental: India (Uttar Pradesh [Hayat1989a]).

*Encarsia trivittata* Hayat, 1989a: 59-60. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 148E. Described: female. Illust.

Encarsia trivittata; Hayat, 1998: 226-227. Described: female. Illust. Subsequent description.

### Encarsia (Citrella) Evans & Polaszek

Encarsia (Citrella) Evans & Polaszek, 1997: 565.

CITATIONS: EvansPo1997.

## Encarsia (Citrella) citrella (Howard)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleuroplatus coronatus* Quaint. [Howard1908a, Howard1911, EvansPo1997], *Aleuroplatus elemerae* Mound & Halsey [EvansPo1997], *Bemisia tabaci* complex [EvansPo1997], *Tetraleurodes ursorum* (Cockerell) [EvansPo1997].

CITATIONS: Howard1908a [Dea]; Howard1911 [Hc].

DISTRIBUTION: **Nearctic**: United States of America (Florida [Howard1908a]). **Neotropical**: Honduras [EvansPo1997].

KEYS: Evans & Polaszek 1997: 565 [citrella complex].

*Prospaltella citrella* Howard, 1908a: 282-283. Type data: USA: FL, Orlando. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 12164. Described: female.

Prospaltella citrella; Mercet, 1912a: 186-187. Described: female. Subsequent description.

Encarsia citrella; Evans & Polaszek, 1997: 566-567. Described: both sexes. Illust. Change of combination.

## Encarsia (Citrella) paracitrella Evans & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* complex [EvansPo1997], *Tetraleurodes acaciae* [EvansPo1997].

DISTRIBUTION: Neotropical: Mexico (Quintana Roo [EvansPo1997]).

KEYS: Evans & Polaszek 1997: 566 [citrella complex].

*Encarsia paracitrella* Evans & Polaszek, 1997: 567. Type data: Mexico: Quintana Roo, Tulum. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

### Encarsia (Citrella) pseudocitrella Evans & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* complex [EvansPo1997], *Crenidorsum* sp. [EvansPo1997], *Parabemisia myricae* (Kuwana) [EvansPo1997].

DISTRIBUTION: **Nearctic**: United States of America (Florida [EvansPo1997]). **Neotropical**: Brazil [EvansPo1997]; Costa Rica [EvansPo1997]; Guatemala [EvansPo1997]; Honduras [EvansPo1997]. KEYS: Evans & Polaszek 1997: 566 [citrella complex].

*Encarsia pseudocitrella* Evans & Polaszek, 1997: 567-568. Type data: USA: Florida, Clewiston. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust.

### Encarsia (Citrella) unicitrella Evans & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: aleyrodid [EvansPo1997].

DISTRIBUTION: Nearctic: Mexico (Guerrero [EvansPo1997]).

KEYS: Evans & Polaszek 1997: 565 [citrella complex].

*Encarsia unicitrella* Evans & Polaszek, 1997: 568-570. Type data: Mexico: Guerrero, 6.6 miles SW Filo de Caballo. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust.

### Encarsia (Citrina) Viggiani & Mazzone

Aspidiotiphagus Howard, 1894a: 229. Type species: *Coccophagus citrinus* Craw, by original designation. Synonymy by Viggiani & Mazzone, 1979[144]: 44.

*Prospaltoides* BrËthes, 1914: 12. Type species: *Prospaltoides howardi* Bréthes, by original designation. Synonymy by BrËthes, 1916: 429.

Aspidiotiphagus (Paraspidiotiphagus) Alam, 1956: 359. Type species: Aspidiotiphagus flavus Compere, by original designation. Synonymy by Viggiani & Mazzone ??, 1979[144]: 44.

Encarsia (Citrina) Viggiani & Mazzone, 1979[144]: 47.

Aspidiotiphagus; Rose & DeBach, 1981: 670-677. Subsequent description.

Encarsia (Citrina); Hayat, 1989: 10.

### Encarsia (Citrina) citrina (Craw)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleurotrachelus micheliae Takahashi? [HuangPo1998], Hemiberlesia minima Leon? [Viggia196725]. Diaspididae: Acaulaspis tubercularis [HayatAy1998], Aonidia lauri (BouchÈ), Aonidiella sp. [Viggia1990299], Aonidiella orientalis [HayatAy1998], Aspidiotus [Howard1895b], Aspidiotus citrinus Coquillett [Craw1891a], Aspidiotus cyanophylli Sign. [Alam1956], Aspidiotus destructor Sign. [McClur1978], Aspidiotus ficus [Howard1895b], Aspidiotus hedericola Leon. [Viggia1988277], Aspidiotus nertii Bch. [McClur1978], Aspidiotus Aurantii var. citrinus Maskell [Howard1895b], Aucalaspis tubercularis [Hayat1989a], Aulacaspis rosae (BouchÈ) [Viggia196725], Chionaspis sp., Chionaspis aspidistrae [Vanbur1915], Chionaspis graminis [Hayat1989a], Cornusapis beckii (Newman) [Hayat1989a], Diaspis lanatus [Howard1895c], Diaspis pentagona [Brethe1914], Diaspis rosae [Howard1895b], Diaspis visci (Schr.) L^w. [Ghesqu1933], Dynaspidiotus sp. [Viggia1990299], Dynaspidiotus britanicus Newst. [McClur1978], Fiorinia externa Ferris [McClur1978], Lepidosaphes pallidula (Williams) [PolaszAb1999], Lepidosaphes tapleyi Williams [PolaszAb1999], Lepidosaphes ulmi L., Lepidosaphes ulmi (Linn.) [Alam1956], Parlatoria pergandii Comst. [Viggia1988277], Parlatoria ziziphi (Lucas), Quadraspidiotus ostraeformis (Curtis), Quadraspidiotus perniciosus [HayatAy1998], Tsugaspidiotus tsugae Marlott [McClur1978], Unaspis euonymi (Comst.) [Viggia1988277].

CITATIONS: Ashmea1904238; Ayyar1925; BabcocHeDe2001 [morphological and molecular phylogenetics];

Comper1936 [Tct]; DeBachRo1981 [No, Ila, Hc]; DeBachRo1981 [Dea, Tn]; DeSant1979b; Gordh1979 [Ca]; Hayat1986 [Tc]; Hertin1972; Howard1894a [Dea]; Howard1895c [Rr]; Howard1898; HowardAs1896 [Rr]; Huang1994 [Tde]; Jasnos1978; KaulSa1974 [Dr]; LiangCh1990; LiaoLiPa1987; Lu1989; Mani1938; ManzarPoBe2002 [molecular phylogenetics.]; McClur1978 [Ila, Dev, Em, Pa, Ho, Ov, Bc]; Mercet1930b; NikolsJa1966; Peck1963 [Tc]; PruthiMa1940 [Rr]; Ren1988; SchmidPo2007a [Da, Ila, Rr]; Sheng1989; Viggia1988277 [Tde]; Viggia1993338 [Cco, Iec, Lhi, Rng]; ViggiaRe1993335.

DISTRIBUTION: Nearctic: United States of America (California [Comper1936, Craw1891a], Illinois [Howard1895b]). Neotropical: Argentina [Brethe1914, DeSant1948a]; Brazil [Mercet1912a]. Oriental: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Jiangsu (=Kiangsu) [HuangPo1998], Jiangsi (=Kiangsi) [HuangPo1998], Shanghai [HuangPo1998], Sichuan (=Szechwan) [HuangPo1998], Zhejiang (=Chekiang) [HuangPo1998]); India (Jammu & Kashmir [Hayat1989a], Karnataka [Hayat1989a], Kerala [HayatAy1998]); Sri Lanka [Howard1895c]; Taiwan [HuangPo1998]. Palaearctic: Belgium [Ghesqu1933]; Egypt [PolaszAb1999]; Germany [Vanbur1915]; Italy [Howard1895b]; Spain [Mercet1912a]; United Kingdom (England [Alam1956]).

Encarsia citrinus; Riley & Howard, 1891: 168. Described: female and larva. Change of combination.Coccophagus citrinus Craw, 1891: 25,28. Type data: USA: CA, San Gabriel Valley [lost]. Neotype female, by subsequent designation DeBach & Rose, 1981: 671. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

Aspidiotiphagus citrinus; Howard, 1894a: 229-231. Described: female and larva. Change of combination.

Aspidiotiphagus citrinus; Howard, 1895b: 31. Described: female. Illust. Change of combination.

Aspidiotiphagus citrinus; Mercet, 1912a: 173-175. Described: female. Illust. Subsequent description.

Aspidiotiphagus australiensis Girault, 1913[158]: 74. Type data: Australia: Queensland, Nelson (=Gordonvale, Cairns). Holotype female. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female. Synonymy by Hayat, 1989c: 289.

*Prospaltoides howardi* BrÈthes, 1914: 13. Type data: Argentina. Syntypes, female, by **present designation**. Type depository: ??. Described: female. Illust. Synonymy by BrÈthes, 1916: 429.

Aspidiotiphagus schoeversi Smits van Burgst, 1915: 292-295. Type data: Germany. Syntypes, female. Described: female. Synonymy by Mercet, 1930: 69.

Encarsia citrinus agilior Berlese & Paoli, 1916: 10. Described: unknown. Synonymy by Noyes, 2001.

Encarsia citrina; Malenotti, 1917: 20. Change of combination.

Aspidiotiphagus Severiniellus GhesquiËre, 1933: 346-348. Type data: Belgium: AnhÈe. Syntypes, female. Type depository: Brussels: Institut Royal des Sciences Naturelles de Belgique, Collections nationales belges d'insectes et d'arachnides, Belgium. Described: female. Illust. Synonymy by ???????.

Aspidiotiphagus citrinus agilior; Compere, 1936: 299-300. Described: male. Illust. Subsequent description.

Aspidiotiphagus citrina; De Santis, 1948a: 225-231. Described: both sexes. Illust. Subsequent description.

Aspidiotiphagus silwoodensis Alam, 1956: 360-362. Type data: England: Silwood Park. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Synonymy by Ferrière, 1965: 140.

Aspidiotiphagus cyanophylli Alam, 1956: 362-363. Type data: England: London, Kew Gardens. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust. Synonymy by Ferrière, 1965: 149.

Encarsia citrina; Viggiani, 1988[277]: 136-137. Described: female. Illust. Subsequent description.

Encarsia citrina; Hayat, 1989a: 27-28. Described: both sexes. Illust. Subsequent description.

Encarsia citrina; Huang & Polaszek, 1998: 1858-1860. Described: female. Illust. Subsequent description.

Encarsia citrina; Hayat, 1998: 189-190. Described: female. Illust. Subsequent description.

Encarsia citrina; Polaszek, Abd-Rabou and Huang, 1999: 141. Illust. Subsequent description.

#### Encarsia (Citrina) curtifuniculata Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia curtifuniculata* Huang & Polaszek, 1998: 1862-1863. Type data: Pr China: Fujian, Shanghang, Qiushan. Holotype female, by **present designation**. Type depository: FAU. Described: female. Illust.

### Encarsia (Citrina) flava (Compere)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Chionaspis margaritae Brain [Comper1936].

CITATIONS: DeBachRo1981 [Dea, Ila].

DISTRIBUTION: Afrotropical: South Africa [Comper1936].

Aspidiotiphagus flavus Compere, 1936: 300-302. Type data: South Africa: Cape Province, Camp's Bay. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

Encarsia flava; Viggiani & Mazzone, 1979[144]: ??. Described: female and larva. Change of combination.

#### Encarsia (Citrina) fuscus Compere

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Chionaspis chaetachme [Comper1936].

DISTRIBUTION: Afrotropical: South Africa [Comper1936].

*Encarsia fuscus* Compere, 1936: 296. Type data: South Africa: Natal, Durban. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

## Encarsia (Citrina) gracilens Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia gracilens* Huang & Polaszek, 1998: 1887-1888. Type data: China: Fujian, Fuzhou. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### Encarsia (Citrina) kemneri (Ahlberg)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aspidiotus hederae Vall [Ahlber1947].

DISTRIBUTION: Palaearctic: Sweden [Ahlber1947].

Aspidiotiphagus kemneri Ahlberg, 1947: 116. Type data: Sweden?. Holotype female. Described: female. Illust.

Encarsia kemneri; Hayat, 1989: 288. Described: female and larva. Change of combination.

#### Encarsia (Citrina) latipennis Compere

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: Aspidiotus hederae (Vallot) [Comper1936], Chionaspis margaritiae Brain [Comper1936], Chrysomphalus aonidium (Linn.) [Comper1936].

CITATIONS: DeBachRo1981 [Ila].

DISTRIBUTION: Afrotropical: South Africa [Comper1936].

Encarsia latipennis Compere, 1936: 302. Type data: South Africa: Cape Province, Camp's Bay, Ronderbosche & Claremont. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

Encarsia latipennis; Viggiani & Mazzone, 1979[144]: ??. Change of combination.

## Encarsia (Citrina) lounsburyi (Berlese & Paoli)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: Aonidia lauri (BouchË) [Viggia1988277], Aonidiella sp. [Viggia1990299], Aonidiella aurantii [HuangPo1998], Aulacaspis sp. [Viggia1990299], Carulaspis aonidum [Peck1963], Carulaspis visci [Peck1963], Chionaspis sp. [Viggia1990299], Chrysomphalus sp. [Peck1963], Chrysomphalus dictyospermi Morg. [BerlesPa1916], Cornuaspis beckii [Peck1963], Dynaspidiotus sp. [Viggia1990299], Hemiberlesia sp. [Ren1988], Lepidosaphes sp. [Viggia1990299], Parlatoria sp. [Viggia1990299], Parlatoria proteus (Curtis) [PolaszAb1999], Parlatoria ziziphi [HuangPo1998], Quadraspidiotus sp. [Viggia1990299], Unaspis sp. [Viggia1990299].

CITATIONS: Alam1956; Berles1916; Comper1936; DeBachRo1981 [Ila, Hc]; Ferrie1965; Flande1953; Hayat1989a; Hertin1972; Huang1994 [Tde]; NikolsJa1966; Paoli1926; SchmidPo2007a [Da, Ila, Rr]; Silves1926; Thomps1953; ViggiaMa1979144; ViggiaRe1993335.

DISTRIBUTION: **Neotropical**: Argentina [DeSant1948a]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Sichuan (=Szechwan) [HuangPo1998]); Taiwan [HuangPo1998]. **Palaearctic**: Egypt [PolaszAb1999]; Italy [Viggia1988277].

KEYS: Mercet 1930: 69 (female) [as Aspidiotiphagus].

Aspidiotiphagus lounsburyi; Berlese, 1916: 12-13. Described: female and larva. Change of combination.

*Prospalta lounsburyi* Berlese & Paoli, 1916: 305. Type data: Italy: Portici. Syntypes, female. Type depository: ISZA?. Described: female.

Aspidiotiphagus lounsburyi; Dozier, 1926: 275-277. Subsequent description.

Aspidiotiphagus lounsburyi; De Santis, 1948a: 231-233. Described: female. Subsequent description.

Hispaniella africana Hill, 1970: 97-99. Unknown type status. Synonymy by Subba Rao, 1984.

Encarsia lounsburyi; Viggiani, 1988[277]: 153. Described: female. Illust. Subsequent description.

Encarsia lounsburyi; Huang & Polaszek, 1998: 1909-1910. Described: female. Illust. Subsequent description.

Encarsia lounsburyi; Polaszek, Abd-Rabou and Huang, 1999. Illust. Subsequent description.

### Encarsia (Citrina) pinella Myartseva

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Melanaspis [Myarts2001].

DISTRIBUTION: Nearctic: Mexico (Tamaulipas [Myarts2001]).

*Encarsia pinella* Myartseva, 2001: 13-. Type data: Mexico: Tamaulipas. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust.

### Encarsia (Coryli) Viggiani

Encarsia (Coryli) Viggiani, 1981[175]: 69.

No species found.

### Encarsia (Cubensis) Polaszek et al 1992

Encarsia (Cubensis) Polaszek et al 1992, 1992: 386.

## Encarsia (Cubensis) aleurothrixi Evans & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurothrixus aepium [EvansPo1998], Aleurothrixus floccosus [EvansPo1998].

DISTRIBUTION: Neotropical: Brazil (Sao Paulo [EvansPo1998]).

KEYS: Evans & Polaszek 1998 [cubensis-group].

*Encarsia aleurothrixi* Evans & Polaszek, 1998: 224-226.. Type data: Brazil: Aguas de Sao Paulo. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

### Encarsia (Cubensis) cubensis Gahan

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleruothrixus floccosus* (Maskell) [Dozier1933a, Gahan1931], *Aleurothrixus howardi* (Quaint.), *Aleurothrixus trachoides* (Back) [EvansPo1998].

CITATIONS: DeBachRo1981 [No].

DISTRIBUTION: **Nearctic**: United States of America (Florida [EvansPo1998]). **Neotropical**: Brazil [EvansPo1998]; Cuba [Gahan1931]; Dominican Republic [EvansPo1998]; Guadeloupe [EvansPo1998]; Haiti [EvansPo1998]; Puerto Rico & Vieques Island [EvansPo1998].

KEYS: Evans & Polaszek 1998 [cubensis-group].

Encarsia cubensis Gahan, 1931: 121-122. Type data: Cuba: Santiago de las Vegas. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 43530. Described: female.

Trichoporus cubensis; Dozier, 1933a: 92. Change of combination.

Encarsia cubensis; Evans & Polaszek, 1998: 226.. Illust. Subsequent description.

### Encarsia (Cubensis) hamoni Evans & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* complex [EvansPo1998], *Tetraleurodes ursorum* (Cockerell) [EvansPo1998].

DISTRIBUTION: **Nearctic**: Mexico (Sinola [EvansPo1998]); United States of America (Florida [EvansPo1998], Georgia [EvansPo1998]).

KEYS: Evans & Polaszek 1998 [cubensis-group].

*Encarsia hamoni* Evans & Polaszek, 1998: 227. Type data: USA: Florida, Davie. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

#### Encarsia (Cubensis) hansoni Evans & Polaszek

DISTRIBUTION: Neotropical: Costa Rica [EvansPo1998].

KEYS: Evans & Polaszek 1998 [cubensis-group].

*Encarsia hansoni* Evans & Polaszek, 1998: 227-228. Type data: Costa Rica: La Selva. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust.

### Encarsia (Cubensis) interstrica Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia interstrica* Huang & Polaszek, 1998: 1895-1896. Type data: China: Fuzhou, Jinshan. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

#### Encarsia (Cubensis) nigricephala Dozier

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurodicus dispersus Russell [EvansPo1998], Aleurotrachelus atratus Hempel [EvansPo1998], Bemisia argentifolia Bellows & Perring [EvansPo1998], Bemisia euphorbiae [?tabaci], Bemisia tabaci (Gennadius) [PolaszEvBe1992, SchmidNaDe2001], Crenidorsum sp. [EvansPo1998], Dialeurodes kirkaldyi (Kotinsky) [EvansPo1998], Tetraleurodes abutiloneus (Haldeman) [EvansPo1998], Tetraleurodes acaciae (Quaintance) [EvansPo1998], Tetraleurodes floridensis (Quaintance) [EvansPo1998], Trialeurodes vaporariorum [PolaszEvBe1992].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: Afrotropical: Nauru [SchmidNaDe2001]; Reunion [PolaszEvBe1992]. Australasian: French Polynesia [SchmidNaDe2001]. Nearctic: Mexico [PolaszEvBe1992]; United States of America (Florida [PolaszEvBe1992], Georgia [EvansPo1998], Maryland [EvansPo1998], Texas [EvansPo1998]). Neotropical: Barbados [PolaszEvBe1992]; Brazil [PolaszEvBe1992]; Colombia [PolaszEvBe1992]; Ecuador [EvansPo1998]; Grenada [PolaszEvBe1992]; Guadeloupe [PolaszEvBe1992]; Guatemala [PolaszEvBe1992]; Honduras [PolaszEvBe1992]; Jamaica [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]; Venezuela [EvansPo1998] [PolaszEvBe1992].

KEYS: Schmidt et al. 2001: 372 [Australia.]; Evans & Polaszek 1998 [cubensis-group].

*Encarsia nigricephala* Dozier, 1937: 129. Type data: Puerto Rico: Mayaguez. Holotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 51607. Described: female.

Encarsia nigricephala; Polaszek et al, 1992: 386. Described: both sexes. Illust. Subsequent description.

Encarsia nigricephala; Evans & Polaszek, 1998: 228-230. Illust. Subsequent description.

Encarsia nigricephala; Schmidt et al., 2001: 381. Illust. Subsequent description.

### Encarsia (Cubensis) quaintancei Howard

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurothrixus floccosus [PolaszEvBe1992], Aleyrodes, Bemisia tabaci [PolaszEvBe1992], Trialeurodes [PolaszEvBe1992], TrialeurodeS abutiloneus [PolaszEvBe1992].

CITATIONS: DeBachRo1981 [No]; Dysart1966 [Lhi].

DISTRIBUTION: **Nearctic**: Mexico [PolaszEvBe1992]; United States of America (District of Columbia [PolaszEvBe1992], Florida [PolaszEvBe1992], Illinois [PolaszEvBe1992], Louisiana [EvansPo1998], Maryland [EvansPo1998], Mississispipi [EvansPo1998]). **Neotropical**: Brazil [EvansPo1998]; El Salvador [EvansPo1998]; Guadeloupe [PolaszEvBe1992]; Jamaica [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]; Venezuela [PolaszEvBe1992].

KEYS: Evans & Polaszek 1998: 224 [cubensis-group].

*Encarsia quaintancei* Howard, 1907: 79. Type data: USA: DC. Holotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female.

*Prospaltella perspicuipennis* Girault, 1910[69]: 234-236. Type data: USA: IL, Centralia. Lectotype female, by subsequent designation Viggiani, 1986: 71. Type depository: Champaign: Illinois Natural History Survey Insect Collection, IL, USA; type no. 41679. Described: female. Synonymy by Polaszek et al, 1992: 387.

Prospaltella perspicuipennis; Mercet, 1912: a. Described: female. Subsequent description.

Encarsia Quaintancei; Mercet, 1912a: 164-165. Described: female. Subsequent description.

Encarsia perspicuipennis; Viggiani, 1986[249]: 71. Described: female. Illust. Change of combination.

Encarsia quaintancei; Polaszek et al. 1992; 387-388. Described: both sexes. Illust. Subsequent description.

Encarsia quaintancei; Evans & Polaszek, 1998: 230-232. Illust. Subsequent description.

## Encarsia (Divergens) Huang & Polaszek

Encarsia (Divergens) Huang & Polaszek, 1998.

## Encarsia (Divergens) affectata (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Lepidosaphes [Silves1930].

CITATIONS: Silves1930; Wu1941 [Ca].

DISTRIBUTION: Oriental: China (Yunnan [Silves1930]).

*Prospaltella affectata* Silvestri, 1930: 66-68. Type data: People's Republic of China: Yunnanfu; Tonkino: Tanh-Hoa. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy.

Described: female. Illust.

Encarsia affectata; Hayat, 1989a. Described: unknown. Change of combination.

Encarsia affectata; Viggiani & Ren, 1993[335]: 227. Described: female and larva. Subsequent description.

Encarsia affectata; Huang & Polaszek, 1998: 1837-1839. Described: female. Illust. Subsequent description.

### Encarsia (Divergens) phaea Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia phaea* Huang & Polaszek, 1998: 1936-1937. Type data: China: Fujian, Shanghang, Qiushan. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Duorunga) Hayat

Encarsia (Duorunga) Hayat, 1989a: 11.

#### Encarsia (Duorunga) brevivalvula Hayat

DISTRIBUTION: Oriental: India (Uttar Pradesh [Hayat1989a]).

*Encarsia brevivalvula* Hayat, 1989a: 41-42. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 151E. Described: female.

Encarsia brevivalvula; Hayat, 1998: 207-208. Described: female. Illust. Subsequent description.

### Encarsia (Duorunga) duorunga Hayat

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Bemisia tabaci (Gennadius [HuangPo1998].

DISTRIBUTION: Oriental: India (Uttar Pradesh [Hayat1989a]); Taiwan [HayatAv1998, HuangPo1998].

Encarsia duorunga Hayat, 1989a: 40-41. Type data: India: Uttar Pradesh. Holotype female. Type depository:

Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 268E. Described: female.

*Encarsia mohyuddini*; Chou, Chou & Ko, 1996. Described: female and larva. Misidentification; discovered by Huang & Polaszek, 1998: 1865.

Encarsia duorunga; Hayat, 1998: 207. Described: female. Illust. Subsequent description.

## Encarsia (Duorunga) mohyuddini Shafee & Rivzi

ASSOCIATIONS: Host - HEMIPTERA Alevrodidae: Bemisia tabaci (Gennadius) [ShafeeRi1982].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]); Pakistan [PolaszEvBe1992, ShafeeRi1982].

*Encarsia mohyuddini* Shafee & Rivzi, 1982: 157. Type data: Pakistan: Charsadda. Holotype female. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female.

Encarsia mohyuddini; Polaszek et al, 1992: 386. Subsequent description.

Encarsia mohyuddini; Huang & Polaszek, 1998: 1918-1919. Described: female. Illust. Subsequent description.

## Encarsia (Elegans) Hayat

Encarsia (Elegans) Hayat, 1989: 11.

## Encarsia (Elegans) chaetogastra Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Alevrodidae: Dumbletoniella sp. [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia chaetogastra* Schmidt & Polaszek, 2007a: 2148-2149. Type data: SchmidPo2007a. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Elegans) collecta Chou & Su

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Parabemisia myricae (Kuwana) [ChouChKo1996].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]); Taiwan [ChouChKo1996].

Encarsia collecta Chou & Su, 1996: 139-141. Type data: Taiwan: Taipei, Fushan. Holotype female, by original

designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: female. Illust.

Encarsia collecta; Huang & Polaszek, 1998: 1860-1862. Described: female. Illust. Subsequent description.

### Encarsia (Elegans) despecta Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurocanthus sp. [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia despecta* Schmidt & Polaszek, 2007a: 2158-2159. Type data: Australia: QLD, Brisbane, Longpocket. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

### Encarsia (Elegans) elegans Masi

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus(?) husaini [HuangPo1998], Aleurolobus marlatti [HuangPo1998], Aleurolobus niloticus [PolaszAb1999], Aleurolobus olivinus (Silv.), Aleurolobus orientalis [Hayat1989c], Aleurolobus rhododendri [HuangPo1998], Aleurolobus sp. near niloticus [Hayat1989a], Siphoninus [HuangPo1998]. **Diaspididae**: Aonidiella orientalis? [HayatAy1998], Chloropulvinaria? [Hayat1989a], Siphoninus [Hayat1989a].

CITATIONS: ChouChKo1996; Huang1994; HuangPo1998.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]); India (Bihar [Hayat1989c]); Pakistan [Hayat1989c]; Taiwan [HayatAy1998]. **Palaearctic**: Egypt [PolaszAb1999]; Italy [Masi1911].

*Encarsia elegans* Masi, 1911: 147. Type data: Italy: Massafra [Catanzaro in Huang & Polaszek 1998]. Holotype female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female.

Encarsia elegans; Mercet, 1912a: 156-158. Described: female. Illust. Subsequent description.

Encarsia elegans; Vigginai, 1985[232]: 84-85. Described: both sexes. Illust. Subsequent description.

Encarsia elegans; Viggiani, 1988[277]: 140. Described: female. Illust. Subsequent description.

*Encarsia bifasciafacies* Hayat, 1989a: 58-59. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 284E. Described: female. Synonymy by Huang & Polaszek, 1998: 1867.

Encarsia elegans; Huang & Polaszek, 1998: 1867-1869. Described: both sexes. Illust. Subsequent description.

Encarsia bifasciafacies; Hayat, 1998: 216-217. Described: both sexes. Illust. Subsequent description.

Encarsia elegans; Polaszek, Abd-Rabou and Huang, 1999: 144-146. Illust. Subsequent description.

#### Encarsia (Elegans) exornata Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia exornata* Huang & Polaszek, 1998: 1871-1873. Type data: China: Fujian, Shanghang, Quishan. Holotype female, by original designation. Type depository: FUJ. Described: male. Illust.

## Encarsia (Elegans) microtricha Huang & Polaszek

CITATIONS: HuangPo1998.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia microtricha* Huang & Polaszek, 1998: 1916-1918. Type data: China: Fujian, Shanghang, Qiushan. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### Encarsia (Flavoscutellum) Evans & Polaszek

Encarsia (Flavoscutellum) Evans & Polaszek, 1995: 34.

KEYS: Evans & Polaszek 1995: 34 (adult).

#### Encarsia (Flavoscutellum) ceratiphivora Evans

ASSOCIATIONS: Hosts - HEMIPTERA **Aphididae**: *Cerataphis brasiliensis* [EvansPoBe1995], *Reticulaphis distylii fici* Takahashi [ChouChKo1996].

CITATIONS: ChouChKo1996.

DISTRIBUTION: Oriental: Taiwan [HuangPo1998]; Thailand [EvansPoBe1995].

KEYS: Evans et al. 1995: 34 [flavoscutellum-group].

*Encarsia ceratiphivora* Evans, 1995: 37. Type data: Thailand: Chiang Mai, Doi Suthep. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

Encarsia ceratiphivora; Huang & Polaszek, 1998: 1853-1854. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Flavoscutellum) flavoscutellum Zehntner

ASSOCIATIONS: Hosts - HEMIPTERA **Hormaphididae**: *Astegopteryx nipae* (van der Goot) [HuangPo1998], *Oregma* (=*Ceratovacuna*) *lanigera* [Zehntn1900].

CITATIONS: Hayat1998 [Tn]; Hertin1972; Thomps1953.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998]); India (Assam [HayatAy1998]); Indonesia [HayatAy1998] [HuangPo1998] (Java [Zehntn1896]); Taiwan [HuangPo1998].

KEYS: Evans et al. 1995: 34 [flavoscutellum-group].

Encarsia flavoscutellum Zehntner, 1900: 12. Type data: Indonesia: Java [neotype: Java, Pasoerean. Neotype female, by subsequent designation Evans, Polaszek & Bennett, 1995: 34. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes.
Encarsia flavoscutellum; Evans & Polaszek, 1995: 34-35. Described: both sexes. Illust. Change of combination.
Encarsia flavoscutellum; Huang & Polaszek, 1998: 1877-1879. Described: female. Illust. Subsequent description.
Encarsia flavoscutellum; Havat, 1998: 214. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Flavoscutellum) noordami Polaszek

KEYS: Evans et al. 1995: 34 [flavoscutellum-group].

Encarsia noordami Polaszek, 1995.

## Encarsia (Flavoscutellum) thoracaphis Ishii

ASSOCIATIONS: Host - HEMIPTERA Aphididae: Thoracaphis takahashii Strand [Ishii1938].

DISTRIBUTION: Palaearctic: Japan [Ishii1938].

KEYS: Evans et al. 1995: 34 [flavoscutellum-group].

*Encarsia thoracaphis* Ishii, 1938: 28-29. Type data: Japan: Nagasaki. Lectotype female, by subsequent designation Evans, Polaszek & Bennett, 1995a: ??. Type depository: NIAS. Described: female.

#### Encarsia (Inaron) Hayat

Encarsia (Partenopea) Viggiani and Mazzone, 1979[144]: 45. Synonymy by Hayat, 1989: 10.

Encarsia (Inaron) Hayat, 1989: 10.

Encarsia (Inaron); Polaszek et al, 1993: 381.

## Encarsia (Inaron) accenta Schmidt & Naumann

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Bemisia sp. [SchmidNaDe2001].

CITATIONS: SchmidPo2007a [da, Ila, Rr].

DISTRIBUTION: **Australasian**: Australia (New South Wales [SchmidNaDe2001], South Australia [SchmidNaDe2001]).

KEYS: Schmidt et al. 2001: 374 [Australia.].

*Encarsia accenta* Schmidt & Naumann, 2001: 371. Type data: Australia: South Australia, Renmark. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

#### Encarsia (Inaron) adusta Schmidt and Naumann

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* (Gennadius) [SchmidNaDe2001], *Lipaleyrodes* sp. [SchmidNaDe2001], *Trialeurodes vaporariorum* (Westwood) [SchmidNaDe2001].

CITATIONS: SchmidPo2007a [da, Ila, Rr].

DISTRIBUTION: **Australasian**: Australia (Northern Territory [SchmidNaDe2001], Queensland [SchmidNaDe2001], Western Australia [SchmidNaDe2001]).

KEYS: Schmidt et al. 2001: 374 [Australia.].

*Encarsia adusta* Schmidt and Naumann, 2001: 371-376. Type data: Australia: Northern Territory, Darwin. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

### Encarsia (Inaron) aethiopica Viggiani

DISTRIBUTION: Afrotropical: Ethiopia [ViggiaLa1989289].

*Encarsia aethiopica* Viggiani, 1989[293]: 513-515. Type data: Ethiopia: Dupte. Holotype female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female.

#### Encarsia (Inaron) aferi Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Bemisia afer (Priesner and Hosny) [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia aferi* Schmidt & Polaszek, 2007a: 2118-2119. Type data: Australia: QLD, Bundaberg. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Inaron) azimi Hayat

ASSOCIATIONS: Associates - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* complex [new], *Trialeuroedes vaporariorum* [new]. Hosts - HEMIPTERA **Aleyrodidae** [Hayat1998], *Aleurolobus rhododenri* Takahashi [HuangPo1998], *Aleyrodes atriplex* [SchmidNaDe2001], *Bemisia tabaci* (Gennadius) [Hayat1989a, PolaszEvBe1992, SchmidNaDe2001], *Dialeurodes fici* [HuangPo1998], *Dialeurodes piperis* [HuangPo1998], *Lipaleurodes* sp. [SchmidNaDe2001], *Odontaleyrodes rhododenri* (Takahashi) [HuangPo1998], *Parabemisia myricae* [ChouChKo1996], *Rhachisphora fici* (Takahasi). THYSANOPTERA **Thripidae**: *Thrips tabaci*? [HayatAy1998].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics (as near azimi).]; BoothPo1996 [Beh]; ChouChKo1996 [Ca]; Hayat1989a [Tn]; HernanCaAg2003 [Rr]; LopezA1987 [Dea, Ili, An, Hy]; SchmidPo2007a [Da, Ila, Rr]; ViggiaMa1979144.

DISTRIBUTION: **Australasian**: Australia (New South Wales [SchmidNaDe2001], Queensland [SchmidNaDe2001]). **Oriental**: China (Fujian (=Fukien) [HuangPo1998]); India [PolaszEvBe1992] (Tamil Nadu [Hayat1989a], Uttar Pradesh [Hayat1989a]); Pakistan [LopezA1987]; Taiwan [HayatAy1998]. **Palaearctic**: Canary Islands [HernanCaAg2003]; Italy [HuangPo1998]; Japan [PolaszEvBe1992]; Spain [HuangPo1998].

KEYS: Schmidt et al. 2001: 374 [Australia.].

Trichaporus indicus Azim & Shafee, 1980: 335-338. Type data: India: Ootacamund. Unknown type status female. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female. Homonym of Prospaltella indica Shafee, 1973; discovered by Hayat, 1986: 65.

Encarsia azimi Hayat, 1986: 160. Replacement name.

*Encarsia adrianae* Lopez-Avila, 1987: 425. Type data: Pakistan: Rawalpindi [ex culture: UK, Ascot, Silwood Park]. Holotype female. Type depository: London: Natural History Museum, England. Described: both sexes. Synonymy by Hayat, 1998: 202.

Encarsia azimi; Hayat, 1989a: 62-64. Described: female. Illust. Subsequent description.

Encarsia adrianae; Polazek et al, 1992: 381. Illust. Subsequent description.

Encarsia azimi; Huang & Polaszek, 1998: 1845-1847. Described: both sexes. Illust. Subsequent description.

Encarsia azimi; Hayat, 1998: 202-203. Described: both sexes. Illust. Subsequent description.

Encarsia azimi; Schmidt et al., 2001. Illust. Subsequent description.

### Encarsia (Inaron) coquilletti Howard

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleyrodes sp. [Gordh1979, Howard1895b].

DISTRIBUTION: Nearctic: United States of America (California [Howard1895b]).

*Encarsia coquilletti* Howard, 1895b: 29. Type data: USA: CA, Los Angeles. Syntypes, both sexes, type designation unknown. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 2702. Described: female.

Encarsia coguilletti; Mercet, 1912a: 154-155. Described: both sexes. Illust. Subsequent description.

Encarsia coquilletti; Viggiani, 1989[306]: 211-212. Described: female. Subsequent description.

#### Encarsia (Inaron) corvli Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Asterobemisia avellanae (Sign.) [Viggia1981175].

CITATIONS: Viggia1993338 [Cco, Iec, Lhi, Rng].

DISTRIBUTION: Palaearctic: Italy [Viggia1993338].

*Encarsia coryli* Viggiani, 1981[175]: 69-71. Type data: Italy: Campania. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

Encarsia coryli; Viggiani, 1988[277]: 137-138. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Inaron) cybele Girault

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Encarsia cybele* Girault, 1913[167]: 186. Type data: Australia: QLD, Nelson [=Gordonvale] (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1724. Described: female.

Encarsia cybele; Girault, 1915[238]: 60. Subsequent description.

Encarsia cybele; Dahms, 1983: 207-208.

Encarsia cybele; Viggiani, 1985[233]: 240. Described: female. Illust. Subsequent description.

### Encarsia (Inaron) estrellae Manzari & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleyrodes singularis Danzig [ManzarPoBe2002,

HernanCaAg2003], Bemisia sp. afer group [ManzarPoBe2002, HernanCaAg2003], Bemisia sp.

[ManzarPoBe2002], Bemisia ?singularis [ManzarPoBe2002].

CITATIONS: HernanCaAg2003 [Ila, Rr, Da, Hre]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: Palaearctic: Azores [ManzarPoBe2002]; Canary Islands [HernanCaAg2003].

*Encarsia estrellae* Manzari & Polaszek, 2002: 173-174.. Type data: Azores: Sao Miguel, Lagoa Canarios. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

#### Encarsia (Inaron) galilea Rivnay (in Rivnay & Gerling)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Acaudaleyrodes citri [RivnayGe1987], Bemisia afer [RivnayGe1987], Siphoninus phyllirea [RivnayGe1987].

CITATIONS: RivnayGe1987 [Dea, Ila, Hc].

DISTRIBUTION: Palaearctic: Israel [RivnayGe1987].

*Encarsia galilea* Rivnay (in Rivnay & Gerling), 1987: 465-467. Type data: Israel: Zuriel Valley. Holotype female. Type depository: TEL AVIV. Described: female. Illust.

### Encarsia (Inaron) gunturensis (Azim & Shafee)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [Hayat1989a].

CITATIONS: Hayat1986 [Tc].

DISTRIBUTION: **Oriental**: India (Andhra Pradesh [Hayat1989a], Tamil Nadu [HayatAy1998], Uttar Pradesh [Hayat1989a]).

*Trichaporus gunturensis* Azim & Shafee, 1980: 337-338. Type data: India: Guntur, Budampadu. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: both sexes.

Encarsia gunturensis; Hayat, 1986: 161. Change of combination.

Encarsia gunturensis; Hayat, 1989a: 61-62. Described: both sexes. Illust. Subsequent description.

Encarsia gunterensis; Hayat, 1998: 201-202. Described: both sexes. Illust. Subsequent description.

## Encarsia (Inaron) inaron (Walker)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Acaudaleyrodes citri (Priesner & Hosny)

[PolaszEvBe1992], Aleyrodes brassicae [ShafeeDa1984], Aleyrodes elevatus Silv. [Viggia1988277], Aleyrodes lonicerae Walker [PolaszEvBe1992, Jasnos1989], Aleyrodes proletella L. [PolaszEvBe1992, Jasnos1973, Viggia1988277], Aleyrodes singularis Danzig [PolaszEvBe1992], Aleyrodid [Masi1910], Asterobemisia carpini (Koch) [PolaszEvBe1992], Asterobemisia paveli (Zahradnik) [PolaszEvBe1992], Bemisia sp. [PolaszEvBe1992, Jasnos1989], Bemisia tabaci (Gennadius) [Mimeur1944, PriesnHo1940, RivnayGe1987, PolaszEvBe1992], Bulgarialeurodes cotesii (Maskell) [PolaszEvBe1992, Jasnos1989], Pealius quercus [Hulden1986], Siphoninus immaculatus (Heeger) [PolaszEvBe1992], Siphoninus phillyreae (Haliday) [PolaszEvBe1992, Jasnos1989, RivnayGe1987, GouldBePa1992b, GouldBePa1992a], Teraleurodes hederae Goux [Viggia1988277], Trialeurodes vaporariorum (Westwood) [PolaszEvBe1992, Jasnos1989, RivnayGe1987]. Diaspididae: Chionaspis striata Newst.? [PriesnHo1940]. HYMENOPTERA Aphelinidae: Encarsia inaron Walker [Willia1989].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; GouldBePa1992a [Mor, Pa, Ov]; GouldBePa1992b [Ran, Pa]; Hayat1981a [Ran]; Hayat1981c [Tn]; Hayat1986 [Tc]; Huang1994 [Tde];

Jasnos1973 [Hre]; Jasnos1989 [Hre, Dre]; LaSallDe1982 [Tn]; Mani1989 [Tn]; ManiKr1995 [Hre];

ManzarPoBe2002 [molecular phylogenetics]; MohyudKhGo1989 [Bic;]; PolaszEvBe1992; PriesnHo1940 [Hre]; RivnayGe1987 [Ov]; Viggia198277 [Rre]; Viggia1993338 [Cco, Iec, Lhi, Rng]; Willia1989 [Hc, Hy].

DISTRIBUTION: Nearctic: United States of America [ManzarPoBe2002]. Oriental: India [PolaszEvBe1992]

(Assam [HayatAy1998], Maharashtra [Hayat1989a], Maharashtra [HayatAy1998], Uttar Pradesh [Hayat1989a]).

Oriental: Pakistan [PolaszEvBe1992]. Oriental: Taiwan [HuangPo1998]. Palaearctic: Bulgaria

[PolaszEvBe1992]. Palaearctic: Egypt [Mercet1929, PolaszAb1999]. Palaearctic: Finland [Hulden1986];

France [Mercet1930a]; Greece [PolaszEvBe1992]; Hungary [ShafeeDa1984]; Israel [PolaszEvBe1992,

 $Gould Be Pa 1992b];\ Italy\ [Masi 1910,\ Viggia 196725,\ Viggia 1988277,\ Viggia 1993338];\ Jordan$ 

[PolaszEvBe1992]; Russia [Jasnos1973]; United Kingdom [Walker1839a].

*Aphelinus inaron* Walker, 1839: 10. Type data: England. Lectotype female, by subsequent designation Graham, 1976: 142. Type depository: NRI. Described: female.

Aphelinus Idaeus Walker, 1839: 12. Type data: England. Lectotype male, by subsequent designation Graham, 1976: ??. Type depository: London: Natural History Museum, England. Described: male. Synonymy by Graham, 1976: 142.

Aphelinus Idaeus Walker, 1839: 12. Neotype female and larva, by **present designation**. Type depository: Ithaca: Cornell University Insect Collection, Department of Entomology, Cornell University, NY, USA. Described: female and larva. Synonymy by Graham, 1976: 142.

*Encarsia partenopea* Masi, 1910: 32. Type data: Italy: Campania, Portici. Holotype female. Type depository: UNP. Described: female. Synonymy by Polaszek et al., 1992: 383.

Encarsia partenopea; Mercet, 1912a: 159-162. Described: both sexes. Illust. Subsequent description.

*Encarsia indifferentis* Mercet, 1929: 220-222. Type data: Egypt [Egipto]. Syntypes, both sexes. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: both sexes. Illust. Synonymy by Polaszek, Abd-Rabou and Huang, 1999: 148.

*Trychaporus aleyrodis* Mercet, 1930a: 196. Type data: France. Syntypes, unknown. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: both sexes. Synonymy by Polaszek et al, 1992: 383.

Trichaporus partenopea; Mercet, 1931: 565. Change of combination.

Encarsia inaron; Graham, 1976: 142. Change of combination.

Trichaporus partenopea; Azim & Schafee, 1980: 337. Described: female and larva. Misidentification; discovered by Hayat, 1989a: 64.

*Encarsia brassicae* Shafee & Darvas, 1984: 29. Type data: Hungary: Budapest. Syntypes, female. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female. Illust. Synonymy by Hayat, 1998: 200.

*Encarsia borealis* Hulden, 1986: 18. Type data: Finland. Holotype female, by original designation. Type depository: MZH. Described: female. Illust. Synonymy by Huang & Polaszek, 1998: 1891.

Encarsia partenopea; Viggiani, 1988[277]: 157-160. Described: both sexes. Illust. Subsequent description.

Encarsia inaron; Hayat, 1989a: 64-65. Described: female. Illust. Subsequent description.

Encarsia inaron; Polaszek et al, 1992: 383-384. Described: both sexes. Illust. Subsequent description.

Encarsia inaron; Huang & Polaszek, 1998: 1891-1893. Described: both sexes. Illust. Subsequent description.

Encarsia inaron; Polaszek, Abd-Rabou and Huang, 1999: 148-150. Illust. Subsequent description.

Encarsia inaron; Manzari et al., 2002: 174. Illust. Subsequent description.

## Encarsia (Inaron) insignis Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Bemisia afer group [new].

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia insignis* Schmidt & Polaszek, 2007a: 2172-2173. Type data: Australia: WA, Purnululu National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia (Inaron) longicornis Mercet

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurotrachelus* sp. [Abbass1975], *Asterobemisia avellanae* (Sign.) [Abbass1975], *Dialeurodes* sp. [Abbass1975], *Pealius* sp. [Viggia1988277].

CITATIONS: Viggia1993338 [Cco, Iec, Lhi, Rng].

DISTRIBUTION: Palaearctic: Italy [Viggia1988277, Viggia1993338].

*Encarsia longicornis* Mercet, 1928: 292. Type data: Italy: Spain: Provincia de Madrid: El Pardo, Vaciamadrid; Provincia de Santander, Solaris, Cabazon de al Sal. Syntypes, unknown, by original designation. Described:

#### unknown.

Trichaporus longicornis; Mercet, 1930b: 84. Change of combination.

Encarsia longicornis; Viggiani, 1981[175]: 69. Described: both sexes. Illust. Subsequent description.

Encarsia longicornis; Viggiani, 1988[277]: 152-153. Described: both sexes. Illust. Subsequent description.

Encarsia longicornis; Hayat, 1989: ??.

#### Encarsia (Inaron) lopezi Blanchard

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae.

DISTRIBUTION: Neotropical: Argentina (Buenos Aires [Blanch1940]).

*Encarsia lopezi* Blanchard, 1940: 18. Type data: Argentina: Buenos Aires, Lopes Cristobal [?]. Unknown type status. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina.

Encarsia lopezi; De Santis, 1948a: 262-266. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Inaron) lycopersici De Santis

DISTRIBUTION: Neotropical: Argentina [DeSant1957a, DeSant1957b].

*Encarsia lycopersici* De Santis, 1957: 103-106. Type data: Argentina: La Plata. Holotype female, by original designation. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female. Illust.

## Encarsia (Inaron) margaritiventris (Mercet)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurochiton aceris* Skierniewice [Jasnos1989], *Aleurotuba jelineki* (Frauenf.) [LaudonVi1984].

CITATIONS: Jasnos1989 [Hre, Dre]; Viggia1993338 [Cco, Iec, Lhi, Rng].

DISTRIBUTION: Palaearctic: Italy [Viggia1985232, Viggia1993338].

*Triachaporus margaritiventris* Mercet, 1931: 565. Type data: Spain: Polonia. Syntypes, both sexes. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: both sexes.

Encarsia margaritiventris; Ferrière, 1965: 136-137. Change of combination.

*Encarsia margaritiventris*; Viggiani, 1985[232]: 87-88. Described: both sexes. Illust. Change of combination. *Encarsia margaritiventris*; Viggiani, 1988[277]: 156. Described: both sexes. Illust. Subsequent description.

Encarsia margaritiventris; Hayat, 1989: ??.

#### Encarsia (Inaron) persequens Silvestri

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurocybolus setigerus Q. & B. [Silves1928].

DISTRIBUTION: Oriental: Philippines (Luzon [Silves1928]).

Encarsia persequens Silvestri, 1927: 44-45. Type data: Phillipines: Luzon, Manilla. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. Encarsia persequens; Hayat, 1989: ??.

### Encarsia (Inaron) reticulata Rivnay

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Bemisia tabaci (Gennadius) [RivnayGe1987].

CITATIONS: RivnayGe1987 [Dea, Ila].

DISTRIBUTION: Palaearctic: Israel [RivnayGe1987].

*Encarsia reticulata* Rivnay, 1987: 469-471. Type data: Israel: Tabkha beach near Lake Kinneret. Holotype female. Type depository: TAUI. Described: both sexes. Illust.

## Encarsia (Inaron) scylla Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleuroduplidens wellsae Martin [new].

DISTRIBUTION: Australasian: Australia (New South Wales [SchmidPo2007a]).

*Encarsia scylla* Schmidt & Polaszek, 2007a: 2229-2230. Type data: Australia: NSW, Coffs Harbour. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Inaron) seminigriclava (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

*Prospaltella seminigriclavus* Girault, 1913[167]: 188. Type data: Australia: QLD, Nelson [=Gordonvale] (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1729. Described: female.

Coccophagus seminigriclavus; Girault, 1915[238]: 57. Described: female. Change of combination.

Prospaltella seminigriclava; Compere, 1931: 11. Change of combination.

Encarsia seminigriclavus; Viggiani, 1985[233]: 248. Described: female. Illust. Change of combination.

Prospaltella seminigriclavus; Dahms, 1986: 518-519.

## Encarsia (Inaron) siphonini Silvestri

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Siphoninus finitimus Silv. [Silves1915b].

DISTRIBUTION: Afrotropical: Somalia [Silves1915b].

*Encarsia siphonini* Silvestri, 1915b: 317-318. Type data: Somalia [Eritrea]: Nefasit. Syntypes, both sexes, by **present designation**. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: both sexes. Illust.

#### Encarsia (Inquirenda) Hayat

*Encarsia* (*Berlesei*) Viggiani & Mazzone, 1979[144]: 1979. by original designation. Synonymy by Hayat, 1989: 11. *Encarsia* (*Inquirenda*) Hayat, 1989: 11.

## Encarsia (Inquirenda) flexa Huang & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Pseudaulacaspis pentagona [HuangPo1998].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia flexa* Huang & Polaszek, 1998: 1879-1880. Type data: China: Fujian, Jianning. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

### Encarsia (Inquirenda) luoae Huang & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Aulacaspis alisiana Takagi [HuangPo1998].

DISTRIBUTION: Oriental: China (Guangdong (=Kwangtung) [HuangPo1998]).

*Encarsia luoae* Huang & Polaszek, 1998: 1910-1912. Type data: China: Guangdong, Yangjiang. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Inquirenda) nanjingensis Huang & Polaszek

DISTRIBUTION: Oriental: China (Jiangsu (=Kiangsu) [HuangPo1998]).

*Encarsia nanjingensis* Huang & Polaszek, 1998: 1921-1922. Type data: China: Jiangsu, Nanjing. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

#### Encarsia (Inquirenda) pseudoaonidiae (Ishii)

ASSOCIATIONS: Hosts - HEMIPTERA **Diaspididae**: *Hemiberlesia pitysophila* [HuangPo1998], *Pseudoaonidia* [Ishii1938], *Pseudoaonidia duplex* [Ishii1938].

DISTRIBUTION: **Oriental**: China (Guangdong (=Kwangtung) [HuangPo1998]). **Palaearctic**: Japan [Ishii1938]. *Aspidotiphagus pseudoaonidiae* Ishii, 1938: 27-28. Type data: Japan: Okinawa, Naha & Nagasaki. Lectotype female, by subsequent designation Huang & Polaszek, 1998: 1944. Type depository: NIAS. Described: female. *Encarsia pseudoaonidiae*; Huang & Polaszek, 1998: 1942-1944. Described: female. Illust. Change of combination.

### Encarsia (Japonica) Hayat

Encarsia (Japonica) Hayat, 1989: 10.

No species found.

## Encarsia (Lahorensis) Viggiani & Mazzone

Encarsia (Lahorensis) Viggiani & Mazzone, 1979[144]: 46.

Encarsia (Lahorensis); Hayat, 1989: 11.

## Encarsia (Lahorensis) aldrichi Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: *Dialeuropora decempuncta* (Quaintance and Baker) [new].

DISTRIBUTION: Australasian: Australia (Northern Territory [SchmidPo2007a], Western Australia

[SchmidPo2007a]).

*Encarsia aldrichi* Schmidt & Polaszek, 2007a: 2122-2123. Type data: Australia: WA, Kununurra. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

#### Encarsia (Lahorensis) aleurochitonis Mercet

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurochiton aceris* (Modeer) [Mercet1931a], *Aleurochiton complanatus* Baer [Medved1987].

CITATIONS: Viggia1993338 [Cco, Iec, Lhi, Rng]. DISTRIBUTION: **Palaearctic**: Italy [Viggia1993338].

*Encarsia aleurochitonis* Mercet, 1931a: 659-669. Type data: Spain: Polonia. Holotype unknown, by monotypy. Type depository: Madrid: Museo Nacional de Ciencias Naturales, Spain. Described: unknown.

### Encarsia (Lahorensis) ancistrocera Huang & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurolobus marlatti* [HuangPo1998], *Aleurotrachelus caerulescens* [HuangPo1998], *Dialeurodes fici* [HuangPo1998].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998].

*Encarsia ancistrocera* Huang & Polaszek, 1998: 1842-1843. Type data: Taiwan: Mucha. Holotype male, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: male. Illust.

#### Encarsia (Lahorensis) antiopa (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167]).

Prospaltella antiopa Girault, 1913[167]: 188. Type data: Australia: QLD, Babinda. Holotype male, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1728. Described: male.

Coccophagus antiopa; Girault, 1915[238]: 47. Change of combination.

Prospaltella antiopa; Compere, 1931: 11.

Prospaltella antiopa; Dahms, 1983: 45.

Encarsia antiopa; Viggiani, 1985[233]: 235. Described: male. Illust. Change of combination.

#### Encarsia (Lahorensis) bothrocera Huang & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurothrixus smilaceti Takahashi [HuangPo1998], Aleurotrachelus caerulescens Singh [HuangPo1998], Aleurotrachelus elatostemae Takahashi [HuangPo1998], Aleurotrachelus micheliae Takahashi [HuangPo1998], Aleurotrachelus rubi Takahashi [HuangPo1998], Aleurotuberculatus ficicola Takahashi [HuangPo1998], Dialeurodes sp. [HuangPo1998], Dialeurodes kirkaldyi [HuangPo1998], Pealius mori (Takahashi) [HuangPo1998], Singhius hibisci (Kotinsky) [HuangPo1998], Taiwanaleyrodes carpini Takahashi [HuangPo1998].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998].

*Encarsia bothrocera* Huang & Polaszek, 1998: 1850-1852. Type data: Taiwan: Shuili. Holotype female, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: both sexes. Illust.

## Encarsia (Lahorensis) cibcensis Lopez-Avila

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurotrachelus caerulescens [HuangPo1998], Aleurotuberculatus ficicola [HuangPo1998], Bemisia tabaci (Gennadius) [LopezA1987, SchmidNaDe2001], Dialeurodes agalmae [HuangPo1998], Pealius mori [HuangPo1998], Singhius hibisci [HuangPo1998], Taiwanaleyrodes meliosmae [HuangPo1998].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; Hayat1989a [Tn]; LopezA1987 [Dea, Ila, An, Hy]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: **Australasian**: Cook Islands [SchmidNaDe2001]. **Oriental**: Pakistan [LopezA1987]; Taiwan [HuangPo1998].

KEYS: Schmidt et al. 2001: 373 [Australia.].

*Encarsia cibcensis* Lopez-Avila, 1987: 427. Type data: Pakistan: Rawalpindi [ex culture, UK: Ascot, Silwood Park]. Holotype female, by original designation. Type depository: London: Natural History Museum, England.

Described: female.

Encarsia cibcensis; Polaszek et al, 1992: 381-382. Described: both sexes. Illust. Subsequent description.

*Encarsia perflava (part)*; Chou, Chou & Ko, 1996: 199. Described: female and larva. Misidentification; discovered by Huang & Polaszek, 1998: 1856.

Encarsia cibcensis; Huang & Polaszek, 1998: 1856-1858. Described: both sexes. Illust. Subsequent description.

Encarsia cibcensis; Schmidt et al., 2001: 377. Illust. Subsequent description.

#### Encarsia (Lahorensis) ciliata (Gahan)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurodicus sp...

DISTRIBUTION: Neotropical: Puerto Rico & Vieques Island.

Prospaltella ciliata Gahan, 1927: 22. Type data: Puerto Rico: San Juan. Holotype female. Type depository:Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 29448. Described: female.

Encarsia ciliata; Viggiani, 1986[249]: 64. Described: female. Illust. Change of combination.

#### Encarsia (Lahorensis) confusa Hayat

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus sp. near niloticus [Hayat1989a]

DISTRIBUTION: Oriental: India (Bihar [HayatAy1998]).

*Encarsia confusa* Hayat, 1989a: 70-71. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: London: Natural History Museum, England; type no. 147E. Described: female.

Encarsia confusa; Hayat, 1998: 234-235. Described: female. Illust. Subsequent description.

## Encarsia (Lahorensis) echinocera Huang & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurotuberculatus ficicola [HuangPo1998].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998].

*Encarsia echinocera* Huang & Polaszek, 1998: 1867. Type data: Taiwan: Chuchi. Holotype male, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: male. Illust.

## Encarsia (Lahorensis) farinaria Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia farinaria* Schmidt & Polaszek, 2007a: 2163-2164. Type data: Australia: QLD, Cockatoo Creek Crossing. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Lahorensis) hamulata Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia hamulata* Huang & Polaszek, 1998: 1890-1891. Type data: China: Fujian, Fuzhou. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Lahorensis) lahorensis (Howard)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Dialeurodes citri* (Ashmead) [Viggia1981172, SailerBrMu1984, NguyenSa1979, RivnayGe1987, HudsonWi1986, HuangPo1998], *Dialeurodes kirkaldyi* [HuangPo1998], *Trialeurodes ricini* (Misra)? [Hayat1989a], *Tuberaleyrodes machili* Takahashi [HuangPo1998].

CITATIONS: Ayyar1925 [Tc]; BarbagLoPa1981 [Ran]; ChouChKo1996; Hayat1981a [Dea, Ran]; Hayat1986 [Tc]; Hayat1989a; Howard1911 [Dea]; HudsonWi1986 [Dev, Pa, Hc, Po]; Mani1938 [Tc]; Mani1989 [Tn]; Misra1924 [Hre]; NguyenSa1979 [Ili, Int, Pa,, Ser, Hc, Po, Bc]; PruthiMa1940 [Be, Hre]; Ren1988; RivnayGe1987 [Int, Hc]; SailerBrMu1984 [No, Int, Pa, Bc]; Viggia1981172 [Int, Ran, Pa, Bc]; Viggia1988277 [Da]; ViggiaMa1978140 [Ili, Bp, Be, Mph]; ViggiaMa1979144; ViggiaRe1993335; Woglum1913 [Be].

DISTRIBUTION: Nearctic: United States of America (California [Viggia1981172, NguyenSa1979], Florida [SailerBrMu1984, NguyenSa1979]). Oriental: China (Guangdong (=Kwangtung) [HuangPo1998]); India [Howard1911] (Bihar [Hayat1989a]); Pakistan [Hayat1989a] [NguyenSa1979]; Taiwan [HayatAy1998]. Palaearctic: Egypt [PolaszAb1999]; Greece [Viggia1981172]; Israel [RivnayGe1987] [Viggia1981172]; Italy [Viggia1993338, BarbagLoPa1981, Viggia1981172].

*Prospaltella lahorensis* Howard, 1911: 132. Type data: Pakistan: Lahore. Lectotype, by subsequent designation Hayat, 1981a: 466. Type depository: Washington: United States National Entomological Collection, U.S.

National Museum of Natural History, DC, USA. Described: both sexes.

Prospaltella lahorensis; Mercet, 1912a: 199-200. Described: female. Subsequent description.

Prospaltella lahorensis; Viggiani & Mazzone, 1978[140]: 102.

Encarsia lahorensis; Viggiani & Mazzone, 1979[144]: 46. Described: female and larva. Change of combination.

Encarsia lahorensis; Viggiani, 1988[277]: 149-150. Described: both sexes. Illust.

Encarsia lahorensis; Hayat, 1989a: 73-74. Described: both sexes. Illust. Subsequent description.

Encarsia lahorensis; Huang & Polaszek, 1998: 1900-1901. Described: both sexes. Illust. Subsequent description.

Encarsia lahorensis; Polaszek, Abd-Rabou and Huang, 1999: 150-152. Illust. Subsequent description.

## Encarsia (Lahorensis) lipaleyrodis Krishnan & Vasantharaj David

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Lipaleyrodes euphorbiae [KrishnVa1996].

DISTRIBUTION: Oriental: India (Tamil Nadu [HayatAy1998]).

*Encarsia lipaleyrodis* Krishnan & Vasantharaj David, 1996: 19. Type data: India: Padappai. Unknown type status female, by **present designation**. Type depository: DAVID. Described: female. Illust.

Encarsia lipaleyrodis; Hayat, 1998: 232. Described: female. Illust. Subsequent description.

# Encarsia (Lahorensis) macroptera Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [Hayat1989a], *Aleurolobus barodensis* [Viggia1985232]. CITATIONS: Hayat1989a.

DISTRIBUTION: **Oriental**: India (Maharashtra [Hayat1989a], Punjab [HayatAy1998], Uttar Pradesh [HayatAy1998]); Pakistan [Viggia1985232].

*Encarsia macroptera* Viggiani, 1985[232]: 87. Type data: Pakistan: Peshawar. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

*Encarsia leptosoma* Hayat, 1989a: 44-45. Type data: India: Punjab, Mukerain. Holotype female, by original designation. Type depository: London: Natural History Museum, England; type no. 63(E). Described: both sexes. Illust. Synonymy by Hayat, 1998: 233.

Encarsia macroptera; Hayat, 1998: 233-234. Described: both sexes. Illust. Subsequent description.

### Encarsia (Lahorensis) notha Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia notha* Schmidt & Polaszek, 2007a: 2202-2203. Type data: Australia: WA, CALM Site 4/3 S by E Kalumburu Mission. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Lahorensis) perflava Havat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [Hayat1989a], *Aleurotrachelus elatostemae* [HuangPo1998], *Aleurotuberculatus ficicola* [HuangPo1998], *Taiwanaleyrodes carpini* Tachikawa [HuangPo1998].

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]); India (Uttar Pradesh [Hayat1989a]); Taiwan [HayatAy1998].

*Encarsia perflava* Hayat, 1989a: 42-43. Type data: India: Uttar Pradesh, Aligarh. Holotype female. Type depository: London: Natural History Museum, England; type no. 102E. Described: female.

*Encarsia perflava*; Chou, Chou & Ko, 1996: 199. Described: female and larva. Misidentification; discovered by Huang & Polaszek, 1998: 1931.

*Encarsia perflava*; Huang & Polaszek, 1998: 1930-1932. Described: both sexes. Illust. Subsequent description. *Encarsia perflava*; Hayat, 1998: 231. Described: female. Illust. Subsequent description.

#### Encarsia (Lahorensis) porteri (Mercet)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus [PolaszEvBe1992], Aleurothrixus aepin (Goldi) [PolaszEvBe1992], Aleurothrixus floccosus (Mask.) [DeSant1979a], Aleurothrixus porteri Quaintance & Baker [PolaszEvBe1992], Bemisia tabaci (Gennadius) [PolaszEvBe1992], Trialeurodes vaparariorum [PolaszEvBe1992].

CITATIONS: ArretzLaGu1985 [Lhi]; Rojas1968 [Lhi].

DISTRIBUTION: **Neotropical**: Argentina [PolaszEvBe1992, DeSant1948a]; Brazil [PolaszEvBe1992]; Chile [PolaszEvBe1992].

Prospaltella citrella Porteri Mercet, 1927c: 130-131. Type data: Chile: San Bernardo. Lectotype female, by subsequent designation Polaszek et al., 1992: ??. Type depository: Madrid: Museo Nacional de Ciencias

Naturales, Spain. Described: female.

Prospaltella porteri; Blanchard, 1937: 26. Change of status.

Prospaltella porteri; De Santis, 1948a: 250-252. Described: female. Illust. Subsequent description.

Encarsia porteri; Polaszek, 1991: 102. Change of combination.

Encarsia porteri; Polaszek et al, 1992: 387. Described: female. Illust. Subsequent description.

### Encarsia (Lahorensis) pseudococci (Agarwal)

ASSOCIATIONS: Host - HEMIPTERA Pseudococcidae: Rastrococcus icervoides? [Agarwa1964].

CITATIONS: Hayat1986 [Tc]; Mani1989 [Dea]; Shafee1973 [Tky].

DISTRIBUTION: Oriental: India (Uttar Pradesh [Agarwa1964]).

*Prospaltella pseudococci* Agarwal, 1964: 279-280. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: both sexes. Illust.

Encarsia pseudococci; Hayat, 1986: 163. Described: female and larva. Change of combination.

Encarsia pseudococci; Hayat, 1989a: 42-43. Described: both sexes. Illust. Subsequent description.

Encarsia pseudococci; Hayat, 1998: 231-232. Described: both sexes. Illust. Subsequent description.

## Encarsia (Lahorensis) synaptocera Huang & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleurotrachelu elatostemae [HuangPo1998],

Aleurotrachelu micheliae [HuangPo1998], Aleurotrachelus sp. [ChouChKo1996], Aleurotrachelus caerulescens [ChouChKo1996], Aleurotrachelus rubi [ChouChKo1996], Aleurotuberculatus malloti [ChouChKo1996],

[ChouChKo1996], Pealius polygoni [ChouChKo1996], Pealius rubi [ChouChKo1996], Trialeurodes

[ChouChKo1996], Trialeurodes vaporariorum [HuangPo1998].

CITATIONS: ChouChKo1996 [Misidentification.].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998].

*Encarsia synaptocera* Huang & Polaszek, 1998: 1953-1954. Type data: Taiwan: Fenchifu. Holotype female, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: both sexes. Illust.

## Encarsia (Lahorensis) taciti (Girault)

ASSOCIATIONS: Associate - Passifloraceae: Passiflora foetida.

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1930432]).

Coccophagus taciti Girault, 1930[432]: 3[272]. Type data: Australia: QLD, Mt Cootha [=Coot-tha]. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4011. Described: female.

Coccophagus taciti; Dahms, 1986: 576.

Encarsia taciti; Viggiani, 1986[249]: 75. Described: female. Illust. Change of combination.

## Encarsia (Lahorensis) unfasciata (Girault)

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238]).

*Coccophagus unfasciata* Girault, 1915[238]: 54, 56. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by original designation. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2941. Described: female.

Coccophagus unfasciata; Girault, 1928[424]: 3[227].

Coccophagus unifasciata Girault, 1928[424]: 3[227]. Unjustified emendation.

Prospaltella unifasciata; Compere, 1931: 11. Change of combination.

Coccophagus unifasciatus; Girault, 1936[447]: 2 [323]. Described: female and larva.

Encarsia unfasciata; Viggiani, 1985[233]: 253-254. Described: female. Illust. Change of combination.

Coccophagus unfasciata; Dahms, 1986: 609.

## Encarsia (Lahorensis) viggianii Huang & Polaszek

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

Encarsia viggianii Huang & Polaszek, 1998: 1958-1959. Type data: China: Fujian, Shanghang, Qiushan. Holotype

male, by original designation. Type depository: FAU. Described: male. Illust.

### Encarsia (Longifasciata) Hayat

Encarsia (Longifasciata) Hayat, 1989: 10.

#### Encarsia (Longifasciata) arabica Hayat

ASSOCIATIONS: Associates - HEMIPTERA **Aleyrodidae**: *Aleorolobus olivinus* (Silvestri) [Rivnay1983], *Simplaleurodes hemisphaerica* Goux [PedataPo2003]. Host - HEMIPTERA **Aleyrodidae** [Hayat1989b]. CITATIONS: PedataPo2003 [Da, ill, Rr, Dei].

DISTRIBUTION: **Palaearctic**: Israel [Rivnay1983]; Italy [PedataPo2003]; Saudi Arabia [Hayat1989a]; Syria [PedataPo2003].

*Encarsia arabica* Hayat, 1989b: 163-164. Type data: Saudi Arabia: Alkharj. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

#### Encarsia (Longifasciata) cassida Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia cassida* Schmidt & Polaszek, 2007a: 2147-2148. Type data: Australia: QLD, Southeast Queensland Heathlands. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Longifasciata) dewa Pedata & Polaszek

DISTRIBUTION: **Oriental**: Indonesia (Sulawesi (=Celebes) [PedataPo2003]).

*Encarsia dewa* Pedata & Polaszek, 2003: 370-371. Type data: Indonesia: Sulawesi, Toraut, Utara, Dumoga-Bone National Park. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

## Encarsia (Longifasciata) longifasciata Subba Rao

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [HayatAy1998], *Aleurocanthus spiniferus* (Quaintance) [HuangPo1998], *Aleurocanthus woglumi* Ashby [PolaszEvBe1992], *Aleuroclava* sp. [PolaszEvBe1992], *Aleurolobus marlatti* (Quaintance) [ViggiaRe1993335], *Aleurolobus niloticus* Priesner & Hosny [PolaszEvBe1992], *Aleurolobus setigerus* Quaintance & Baker [HuangPo1998], *Aleurolobus* sp. [PolaszEvBe1992], *Bemisia tabaci* (Gennadius) [PolaszEvBe1992, MohyudKhGo1989, HuangPo1998], *Blackfly* [SubbaR1984], *Dialeurodes citri* (Ashmead) [PolaszEvBe1992].

CITATIONS: ChouChKo1996; Mani1989 [Dea]; PedataPo2003 [Dea, Rr, Ia]; SchmidPo2007a [Da, Ila, Rr]; ViggiaRe1993335.

DISTRIBUTION: **Australasian**: Australia [PedataPo2003]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangxi (=Kwangsi) [HuangPo1998]). **Oriental**: India [SubbaR1984]. **Oriental**: India (Karnataka [Hayat1989a]); Indonesia (Sulawesi (=Celebes) [PedataPo2003]); Pakistan [MohyudKhGo1989, PolaszEvBe1992, PedataPo2003]; Taiwan [HayatAy1998]; Thailand [PedataPo2003]. **Palaearctic**: China [HayatAy1998]; Japan [PedataPo2003].

*Encarsia longifasciata* Subba Rao, 1984: 260. Type data: India: Bangalore. Holotype female. Type depository: London: Natural History Museum, England. Described: female.

Encarsia longifasciata; Hayat, 1989a: 29-30. Described: female. Illust. Subsequent description.

Encarsia longifasciata; Polaszek et al, 1992: 384. Described: female. Subsequent description.

Encarsia longifasciata; Huang & Polaszek, 1998: 1906-1907. Described: female. Illust. Subsequent description.

Encarsia longifasciata; Hayat, 1998: 192. Described: female. Illust. Subsequent description.

### Encarsia (Longifasciata) prinslooi Pedata & Polaszek

ASSOCIATIONS: Associate - Diaspididae [new].

DISTRIBUTION: **Afrotropical**: South Africa [PedataPo2003].

*Encarsia prinslooi* Pedata & Polaszek, 2003: 373. Type data: South Africa: Transvaal, Pretoria. Holotype female, by **present designation**. Type depository: Pretoria: South African National Collection of Insects, South Africa. Described: female. Illust.

# Encarsia (Lutea) Viggiani & Mazzone

Encarsia (Lutea) Viggiani & Mazzone, 1979[144]: 46.

Encarsia (Formosa); Hayat, 1989: 10. Encarsia (Lutea); Hayat, 1989: 11.

## Encarsia (Lutea) abatei Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleuroplatus cadabae Priesner & Hosny [Viggia1982185].

DISTRIBUTION: Afrotropical: Ethiopia [Viggia1982185].

*Encarsia abatei* Viggiani, 1982[185]: 27-32. Type data: Ethiopia: Melka Werer. Holotype female, by original designation. Type depository: UNP. Described: both sexes.

## Encarsia (Lutea) armillata Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurolobus sp. [SchmidPo2007a].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a], Western Australia [SchmidPo2007a]).

*Encarsia armillata* Schmidt & Polaszek, 2007a: 2126-2127. Type data: Australia: QLD, Brisbane, Longpocket. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection,

Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Lutea) asterobemisiae Viggiani & Mazzone

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Asterobemisia avellanae* (Sign.) [Viggia1988277], *Bemisia* sp. [Viggia1988277].

CITATIONS: Viggia1980160 [Nut].

DISTRIBUTION: Palaearctic: Italy [Viggia1988277, ViggiaMa1980167].

Encarsia asterobemisiae Viggiani, 1980[160]: 28. Illust. Nomen nudum.

*Encarsia asterobemisiae* Viggiani & Mazzone, 1980[167]: 54-55. Type data: Italy: Piazzolla. Holotype female, by original designation. Type depository: UNP. Described: female.

*Encarsia asterobemisiae*; Viggiani, 1981[175]: 67-69. Described: both sexes. Illust. Subsequent description. *Encarsia asterobemisiae*; Viggiani, 1988[277]: 133-134. Described: both sexes. Illust. Subsequent description.

### Encarsia (Lutea) davidi Viggiani & Mazzone

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: *Bemisia* sp. (afer group) [new]. Hosts - HEMIPTERA **Aleyrodidae**: *Acaudaleyrodes rachipora* (=citri) (Singh) [RivnayGe1987, HernanCaAg2003], *Aleurolobus marlatii* (=niloticus) (Quaintance) [PolaszAb1999], *Tetraleurodes leguminicola* (Takahashi) [PolaszAb1999].

CITATIONS: HernanCaAg2003 [Da, Hre]; RivnayGe1987 [No, Hc]; ViggiaMa1980167 [Nut].

DISTRIBUTION: Palaearctic: Egypt [PolaszAb1999]; Israel [ViggiaMa1980167].

*Encarsia davidi* Viggiani & Mazzone, 1980[167]: 55-57. Type data: Israel, Nazareth. Holotype female. Described: female. Illust.

Encarsia davidi; Polaszek, Abd-Rabou and Huang, 1999: 143-144. Illust. Subsequent description.

### Encarsia (Lutea) dialeuroporae Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeuropora decempunctata [Viggia1985232].

DISTRIBUTION: Oriental: Pakistan [Viggia1985232].

*Encarsia dialeuroporae* Viggiani, 1985[232]: 84. Type data: Pakistan: Pashawar. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

## Encarsia (Lutea) hamata Huang & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [HuangPo1998].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia hamata* Huang & Polaszek, 1998: 1888-1890. Type data: China: Fujian, Fuzhou, Jinshan. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

#### Encarsia (Lutea) indica (Shafee)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [Hayat1989a].

DISTRIBUTION: Oriental: India (Pondicherry [Hayat1989a]).

*Prospaltella indica* Shafee, 1973: 255. Type data: India: Pondicherry. Holotype female. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female.

Encarsia lutea; Hayat, 1981a: 466. Incorrect synonymy; discovered by Hayat, 1989a: 48.

Encarsia indica; Hayat, 1989a: 48. Change of combination.

Encarsia indica; Hayat, 1998: 229-230. Described: female. Illust. Subsequent description.

#### Encarsia (Lutea) lutea (Masi)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae [HayatAy1998], Acaulaleyrodes citri [HuangPo1998], Aleurocanthus cinnamomi [HuangPo1998], Aleurocanthus ziziphi [PolaszAb1999], Aleurolobus marlatti (Quaintance) [HuangPo1998], Aleurolobus niloticus [HuangPo1998], Aleurolobus rhododendri [HuangPo1998], Aleurolobus setigerus [HuangPo1998], Aleurolobus wunni (Ryberg) [Viggia1988277], Aleuroplatus pectiniferus [HuangPo1998], Aleurotrachelus [Viggia1988277], Aleurotrachelus jelinekii (Frauenfeld) [PolaszEvBe1992], Aleurotrachelus rubi Takahashi [HuangPo1998], Aleurotuberculatus aucubae (Kuwana) [HuangPo1998], Aleurotuberculatus gordoniae Takahashi [HuangPo1998], Aleurotuberculatus jasmini Takahashi [HuangPo1998], Aleurotuberculatus malloti Takahashi [HuangPo1998], Aleurotuberculatus mellastomae Takahashi [HuangPo1998], Aleurotuberculatus psidii (Singh) [HuangPo1998], Aleurotubersulatus ficicola [HuangPo1998], Aleyrodes [Viggia1988277], Aleyrodes lonicerae Walker [Jasnos1989], Aleyrodes proletella L. [Jasnos1989], Asterobemisia atraphaxidis Danz. [Jasnos1989], Asterobemisia carpini (Koch) [Jasnos1989], Bemisia argentifolia Perring & Bellows [HuangPo1998], Bemisia ovata (Goux) [PolaszEvBe1992, Jasnos1989], Bemisia porteri Corbett [PolaszEvBe1992, Jasnos1973], Bemisia salicaria Danzig [PolaszEvBe1992, Jasnos1973], Bemisia tabaci (Gennadius) [MohyudKhGo1989, PolaszEvBe1992, Jasnos1989, Willia1991, RivnayGe1987, Hayat1989a, HuangPo1998, Schmi], Bulgarialeurodes cotesi Mask. [Jasnos1973], Dialeurodes sp. [Viggia1988277], Dialeurodes citri [PolaszEvBe1992, Jasnos1973], Dialeurodes fici [PolaszEvBe1992, Jasnos1973], Dialeurodes formosoanensis Takahashi [PolaszEvBe1992, Jasnos1973], Dialeurodes kirkaldyi [PolaszEvBe1992, Jasnos1973], Pealius [Viggia1988277], Pealius mori [PolaszEvBe1992, Jasnos1973], Pealius setosus Danzig [PolaszEvBe1992, Jasnos1973], Singhius hibisci [PolaszEvBe1992, Jasnos1973], Siphonius phillyreae [PolaszAb1999], Taiwanaleyrodes meliosmae [PolaszEvBe1992, Jasnos1973], Tetralicia [Viggia1988277], Trialeurodes [Viggia1988277], Trialeurodes abutiloneus (Haldeman) [StonerBu1965], Trialeurodes vaporariorum (Westw.) [Viggia1988277, Jasnos1989, StonerBu1965]. HYMENOPTERA Aphelinidae: Eretmocerus mundus [Willia1991]. LEPIDOPTERA: Trichoplusia ni Hubner [StonerBu1965]. Noctuidae: Helicoverpa zea (Boddie) [StonerBu1965].

CITATIONS: AbdelFHeKo1984 [Lhi]; Abdelr1986 [Lhi]; BabcocHeDe2001 [morphological and molecular phylogenetics.]; ChouChKo1996; Gerlin1986 [Lhi]; GerlinFo1987 [Lhi]; GerlinSpVi1987 [Dev]; Hunter1989a [Hc]; Jasnos1973 [Hre]; Jasnos1989 [Rre]; LopezA1986 [Rre]; Mani1989 [Tn]; ManzarPoBe2002 [molecular phylogenetics.]; Polasz1991 [Lhi]; Ren1988; RivnayGe1987 [Hc]; SchaufEvHe1996; SchmidPo2007a [Da, Ila, Rr]; StonerBu1965 [Lhi]; Stouth1991 [Pa, Hc]; Viggia196725 [Rre]; Viggia1980160 [Iad, Nut]; Viggia1988277 [Rre]; Viggia1993338 [Cco, Iec, Lhi, Rng]; ViggiaMa1979144; ViggiaMa1980167; ViggiaRe1993335; Willia1991 [Fe, Pa, Hc, Hy]; WoolGeCo1984 [Is].

DISTRIBUTION: **Afrotropical**: Nauru [SchmidNaDe2001]. **Australasian**: Australia (Queensland [SchmidNaDe2001], Western Australia [SchmidNaDe2001]); Cook Islands [SchmidNaDe2001]; Niue [SchmidNaDe2001]; Tonga [SchmidNaDe2001]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998], Guangxi (=Kwangsi) [HuangPo1998]); India [Hayat1989a]; Pakistan [Hayat1989a]; Taiwan [HayatAy1998]. **Palaearctic**: China [HayatAy1998]; Egypt [PolaszAb1999]; Italy [Masi1910, Viggia196725, Viggia1988277, Viggia1993338]; Russia [Jasnos1973].

KEYS: Schmidt et al. 2001: 374 [Australia.].

*Prospaltella lutea* Masi, 1909: 25. Type data: Italy: Campania, Portici. Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Prospaltella lutea; Mercet, 1912a: 204-205. Described: female. Illust. Subsequent description.

Coccophagus sanctus Girault, 1928[424]: 3[227]. Type data: Australia: QLD, Tingoora. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.3848. Described: female. Synonymy by Schmidt & Polaszek, 2007a: 2189.

Encarsia lutea; Ferrière, 1965: 132. Change of combination.

*Encarsia lutea*; Hayat, 1981c: 466. Described: female and larva. Incorrect synonymy; discovered by Hayat, 1989: 48.

*Encarsia sancta*; Viggiani, 1985[233]: 246-247. Described: female. Illust. Change of combination. *Coccophagus sanctus*; Dahms, 1986: 500.

Encarsia lutea; Viggiani, 1988[277]: 155-156. Described: both sexes. Illust. Subsequent description.

Encarsia lutea; Polaszek et al, 1992: 384-385. Described: both sexes. Illust. Subsequent description.

Encarsia lutea; Huang & Polaszek, 1998: 1912-1914. Described: both sexes. Illust. Subsequent description.

Encarsia lutea; Hayat, 1998: 230-231. Described: both sexes. Illust. Subsequent description.

*Encarsia lutea*; Polaszek, Abd-Rabou and Huang, 1999: 154-156. Illust. Subsequent description. *Encarsia lutea*; Schmidt et al., 2001: 379. Illust. Subsequent description.

#### Encarsia (Lutea) marinikia Jasnosh

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurodes phyladelphi Danzig [Jasnos1989].

DISTRIBUTION: Palaearctic: Russia (Primor'ye Kray [Jasnos1989]).

*Encarsia marinikia* Jasnosh, 1989: 113-114. Type data: Russia: Primorsky Kray, Ussuriyskiy Reserve. Holotype female, by original designation. Type depository: St. Petersberg: (= Leningrad) Zoological Museum, Academy of Science, Russia. Described: both sexes. Illust.

### Encarsia (Lutea) udaipuriensis (Shafee)

ASSOCIATIONS: Associate - HEMIPTERA Coccidae: Pseudococcus citri Risso [Agarwa1964]. Hosts - ??: Emmalocera depressella? [Hayat1989a]. HEMIPTERA Aleyrodidae: Aleurolobus barodensis [Hayat1989a], Aleyrodes, Moundiella indica [HayatAy1998]. Aleyrodidae?: Kerria lacca? [Hayat1989a]. Coccidae: Planococcus citri? [Hayat1989a]. UNKNOWN: Emmalocera depressella? [HayatAy1998].

CITATIONS: Hayat1974; Mani1989 [Dad].

DISTRIBUTION: **Oriental**: India (Bihar [Hayat1989a], Orissa [HayatAy1998], Rajasthan [Hayat1989a], Tamil Nadu [HayatAy1998], Uttar Pradesh [Hayat1989a]).

*Prospaltella citri* Agarwal, 1964: 276. Type data: India: Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female. Illust. Homonym of P. citri Ishii; discovered by Hayat, 1974: 181.

*Prospaltella udaipurensis* Shafee, 1973: 256-258. Type data: India: Rajasthan, Udaipur. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 5D. Described: female.

Prospaltella agarwali Hayat, 1974: 181. Replacement name.

Encarsia agarwali; Hayat, 1986: 160. Change of combination.

Encarsia udaipuriensis; Hayat, 1986: 164. Change of combination.

Encarsia udaipuriensis; Hayat, 1989a: 50-52. Described: both sexes. Illust. Subsequent description.

Encarsia udaipuriensis; Hayat, 1998: 228-223. Described: female. Illust. Subsequent description.

## Encarsia (Lutea) uncinata Schmidt & Polaszek

ASSOCIATIONS: Associate - Aleyrodidae [new].

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia uncinata* Schmidt & Polaszek, 2007a: 2250-2251. Type data: Australia: WA, Lake Argyle. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Luteola) Polaszek et al.

Encarsia (Formosa) Viggiani & Mazzone, 1979[144]: 45. Synonymy by Polaszek et al., 1992: 382. Encarsia (Luteola) Polaszek et al., 1992: 385.

# Encarsia (Luteola) brunnea (Howard)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleyrodes sp.? [Howard1908a, Howard1911]

CITATIONS: Howard1908a [Dea]; Howard1911 [Hc].

DISTRIBUTION: Neotropical: Puerto Rico & Vieques Island [Howard1908a].

Prospaltella brunnea Howard, 1908a: 283. Type data: Puerto Rico: Bayamon. Holotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 12165. Described: female.

Prospaltella brunnea; Mercet, 1912a: 186. Described: female. Subsequent description.

Encarsia brunnea; Viggiani, 1986[249]: 64. Described: female. Illust. Change of combination.

## Encarsia (Luteola) californica Polaszek

DISTRIBUTION: Nearctic: United States of America (California [PolaseMaQu2004]).

*Encarsia californica* Polaszek, 2004: 411-412. Type data: USA: CA: Napa Co. Oakville. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

## Encarsia (Luteola) desantisi Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* (Gennadius) [PolaszEvBe1992, DeSant1981a], *Bemisia tabaci* (Gennadius) [PolaszEvBe1992].

DISTRIBUTION: **Neotropical**: Argentina [DeSant1981a]. **Neotropical**: Brazil [DeSant1948a, PolaszEvBe1992, DeSant1981a]; Venezuela [PolaszEvBe1992].

*Encarsia bicolor* De Santis, 1948a: 256. Type data: 2029 (no data). Holotype female. Described: female. Homonym of *bicolor* Timberlake, 1926.; discovered by Viggiani, 1985[232]: 82.

Encarsia bicincta De Santis, 1981a: 38. Illust. Unjustified emendation; discovered by Noyes, 2001.

Encarsia bicolor; De Santis, 1981a: 38. Described: male. Subsequent description.

Encarsia desantisi Viggiani, 1985[232]: 82. Described: female and larva. Replacement name for bicolor De Santis, 1948

Encarsia desantisi; Polaszek, Evans & Bennett, 1992; 382. Described: both sexes. Illust. Subsequent description.

## Encarsia (Luteola) dispersa Polasek et al.

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Oriental: Malaysia (Sabah [PolaseMaQu2004]).

*Encarsia dispersa* Polasek et al., 2004: 412-413. Type data: Malaysia: Sabah, Tawau. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

### Encarsia (Luteola) dominicana Evans

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurothrixus floccosus [EvansSe2002].

DISTRIBUTION: **Nearctic**: United States of America (Florida [EvansSe2002]). **Neotropical**: Dominican Republic [EvansSe2002]; Haiti [Dozier1932, EvansSe2002].

*Encarsia dominicana* Evans, 2002: 205-206. Type data: Dominican Republic: Las Terrenas. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

### Encarsia (Luteola) formosa Gahan

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleuroglandulus malangae Russell [PolaszEvBe1992], Aleurotrachelus trachoides (Back) [PolaszEvBe1992], Aleyrodes lonicerae Walker [PolaszEvBe1992], Aleyrodes proletella (L.) [PolaszEvBe1992], Aleyrodes spiraeoides Quaintance [PolaszEvBe1992], Bemisia tabaci (Grennadius) [PolaszEvBe1992, RivnayGe1987], Dialeurodes chittendeni Laing [PolaszEvBe1992], Dialeurodes citri (Ashmead) [PolaszEvBe1992], Trialeurodes sp. [PolaszEvBe1992], Trialeurodes vaporariorum (Westwood) [PolaszEvBe1992, RivnayGe1987, Gerlin1985, AvillaCo1986], Trialeurodes vaporariorum Westwood [HeadriBePe1996].

CITATIONS: AlbertSa1989 [Bic]; ArtiguAvSa1992a [Fe]; AvillaCo1986 [Dea, Pa, Hy, Bc, IPM]; AvillaCo1986 [Dev, Fe, Bp, Mod, Ov, Ho,]; BabcocHe2000 [molecular taxonomy]; BabcocHeDe2001 [morphological and molecular phylogenetics.]; Boiscl1990 [Lhi]; Coplan1976 [Ila, Ov]; EggenkElVa1980 [Bp]; Ferrie1965; Gahan1924 [Lhi]; Gerlin1966 [Ho, Bc]; GerlinRi1984 [Dea, Ila, An]; GerlinSpVi1987 [Dev, Bc, Ho, Hc]; GerlinSpVi1987 [Dev, Bc, Ho, Hc]; HeadriBePe1996 [Pa, Ov]; HernanCaAg2003 [Rr, Ila]; HoelmeDa1993 [Cc]; Huang1994 [Tde]; Hulden1986; Hunter1989a [Hs]; Hunter1989b [Dev, Ov]; Jasnos1989 [Hre, Dre]; Jasnos1989; LopezA1987 [Hy]; ManzarPoBe2002 [molecular phylogenetics.]; MasoodBhKo1989 [Cc]; Millir1940; Nedsta1988 [Lhi]; NikolsJa1966; PolaszAb1999; PolaszEvBe1992; RivnayGe1987 [Int, Hc]; SchmidPo2007a [Da, Ila, Rr]; ShimroHeGe1992 [Hs]; Speyer1927 [Lhi]; Stense1990 [Lhi]; VanLenRaWo1980 [Bc, Bp]; Vet1980 [Bc, Bp, Fe, Dev, Lo, Ov]; ViggiaMa1979144; WangWaYa1992; WangYa1992.

DISTRIBUTION: Afrotropical: Reunion [PolaszEvBe1992]. Australasian: Australia [SchmidNaDe2001]; Fiji [SchmidNaDe2001]; French Polynesia [SchmidNaDe2001]; Hawaiian Islands [RivnayGe1987]; Tonga [SchmidNaDe2001]. Nearctic: Mexico [PolaszEvBe1992]; United States of America (California [RivnayGe1987, PolaszEvBe1992], Idaho [Gahan1924]). Neotropical: Barbados [PolaszEvBe1992]; Brazil [PolaszEvBe1992]; Costa Rica [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]. Palaearctic: Canary Islands [HernanCaAg2003]; Israel [RivnayGe1987]; Italy [Viggia1988277]; United Kingdom (England [PolaszEvBe1992]).

KEYS: Schmidt et al. 2001: 372 [Australia.].

*Encarsia formosa* Gahan, 1924: 14. Type data: USA: Idaho, Twin Falls. Syntypes. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female.

Encarsia formosa; Viggiani, 1988[277]: 144-145. Described: both sexes. Illust. Subsequent description.

*Trichaporus formosus*; (Gahan) Luo et al., 1989: 293. Described: female and larva. Misidentification; discovered by Huang & Polaszek, 1998: 1881.

Encarsia formosa; Polaszek et al, 1992: 382. Described: both sexes. Illust. Subsequent description.

Encarsia formosa; Polaszek, Abd-Rabou and Huang, 1999: 146-148. Illust. Subsequent description.

Encarsia formosa; Schmidt et al., 2001: 377. Illust. Subsequent description.

### Encarsia (Luteola) gallardoi Marelli

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleyrodid [Marell1933].

DISTRIBUTION: Neotropical: Argentina [Marell1933].

*Encarsia gallardoi* Marelli, 1933: 3. Type data: Argentina: Buenos Aires. Holotype female. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female.

Encarsia gallardoi; De Santis, 1948a: 259-262. Described: female. Subsequent description.

### Encarsia (Luteola) guadeloupae Viggiani

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: Lecanoideus floccissimus [new]. Hosts - HEMIPTERA **Aleyrodidae**: Aleurodicus dispersus Russell [Viggia1993338, SchmidNaDe2001, HernanCaAg2003], Aleyrodes sp. [Viggia1988275], Bemisia tabaci (Gennadius) [SchmidNaDe2001], Trialeurodes vaporariorum (Westwood) [Viggia1993338, SchmidNaDe2001]. **Diaspididae**? [Viggia1993338].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; HernanCaAg2003 [Rr, Ila, Hre]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: **Afrotropical**: Nauru [SchmidNaDe2001]. **Australasian**: French Polynesia [SchmidNaDe2001]; Papua New Guinea [SchmidNaDe2001]. **Neotropical**: Guadeloupe [Viggia1988275]. **Oriental**: Thailand [SchmidNaDe2001]. **Palaearctic**: Canary Islands [HernanCaAg2003].

KEYS: Schmidt et al. 2001: 372 [Australia.].

*Encarsia guadeloupae* Viggiani, 1988[275]: 35-37. Type data: Guadeloupe (Wonche). Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

Encarsia guadeloupae; Viggiani, 1993[338]: 123-125. Described: female. Illust. Subsequent description.

Encarsia guadeloupae; Schmidt et al., 2001: 377-379. Illust. Subsequent description.

### Encarsia (Luteola) haitiensis Dozier

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurodicus dispersus* Russell [KumashLaFu1983], *Aleuroglandulus malangae* Russ., *Aleurothrixus floccosus* (Mask.).

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics (nr haitensis).]; KumashLaFu1983 [Ili, Int, Pa]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: Neotropical: Cuba.

*Encarsia haitiensis* Dozier, 1932: 118. Type data: Haiti: Damien. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female.

Encarsia haitiensis; Dozier, 1933: 92.

# Encarsia (Luteola) hispida De Santis

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleuroglandulus malangae Russell [PolaszEvBe1992], Aleurothrixus floccosus (Mask.) [Hempel1904], Aleurothrixus porteri Quaintance [PolaszEvBe1992], Aleurotrachelus socialis [EvansCa1998], Bemisia tabaci (Gennadius) [PolaszEvBe1992], Bemisia tabaci (Gennadius) [PolaszEvBe1992], Siphoninus (?) phillyreae (Haliday) [PolaszEvBe1992], Trialeurodes floridensis (Quaintance) [EvansCa1998], Trialeurodes vaporariorum (Westwood) [PolaszEvBe1992].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; HernanCaAg2003 [Ila, Rr, Da]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: **Australasian**: French Polynesia [SchmidNaDe2001]. **Nearctic**: Mexico [PolaszEvBe1992]; Brazil [DeSant1948b]; Chile [PolaszEvBe1992]; Colombia [PolaszEvBe1992, EvansCa1998]; Dominican Republic [PolaszEvBe1992]; Guadeloupe [PolaszEvBe1992]; Honduras [PolaszEvBe1992]; Jamaica [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]; Venezuela [PolaszEvBe1992]. **Palaearctic**: Canary Islands [HernanCaAg2003]; Italy? [PolaszEvBe1992]; Spain? [PolaszEvBe1992].

KEYS: Schmidt et al. 2001: 372 [Australia.]; Evans & Castillo 1998 [Colombia].

*Encarsia hispida* De Santis, 1948b: 45. Type data: Brasil: Rosario, Santa Fe. Holotype female, by original designation. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female.

Encarsia meritoria; Viggiani, 1989: 207. Described: female and larva. Change of combination.

Encarsia hispida; Polaszek et al, 1992: 383. Described: female. Illust. Change of status.

Encarsia hispida; Schmidt et al., 2001: 379. Illust. Subsequent description.

#### Encarsia (Luteola) luteola Howard

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocybotus ? indicus David & Subramaniam [Gerlin1967], Aleuroplatus coronatus (Quaint.) [Gordh1979], Aleyrodes sp. [Gordh1979, Mercet1912a], Bemisia tabaci (Gennadius) [PolaszEvBe1992, ShimroHeGe1992, RivnayGe1987, GerlinSpVi1987, GerlinRi1984], Trialeurodes [PolaszEvBe1992], Trialeurodes fernaldi (Morr.) [Gordh1979], Trialeurodes packardi (Morr.) [Gordh1979].

CITATIONS: BabcocHe2000 [molecular taxonomy]; BabcocHeDe2001 [morphological and molecular phylogenetics.]; Gerlin1966 [Dev, Em, Fe, Lo, Pa, Ser, Mah, Mod, Cou, Ho, Ov, Hy, Bp]; Gerlin1967 [Rre]; GerlinRi1984 [Dea, Ila, An, Ge, Sed, Int, Ho, Hy]; LopezA1987 [Hy]; ManzarPoBe2002 [molecular phylogenetics.]; MorrilBa1912 [Bio]; Poinar1964 [Bio]; RivnayGe1987 [Int, Hc]; ShimroHeGe1992 [Int, Hs].

DISTRIBUTION: Nearctic: Mexico [PolaszEvBe1992]. Nearctic: United States of America (California [Howard1895a, GerlinRi1984], District of Columbia [Howard1895a], Florida [PolaszEvBe1992]). Neotropical: Brazil [PolaszEvBe1992]; Guadeloupe [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]. Palaearctic: Israel [GerlinRi1984, PolaszEvBe1992].

*Encarsia luteola* Howard, 1895b: 29. Type data: USA: DC, Washington. Holotype female, by monotypy. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 26159. Described: female.

*Encarsia angelica* Howard, 1895b: 30. Type data: USA: CA, Los Angeles. Holotype male. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 2705. Described: male. Synonymy by Polaszek et al, 1992: 385.

Encarsia angelica; Mercet, 1912a: 152-153. Described: male. Subsequent description.

Encarsia luteola; Mercet, 1912a: 158-159. Described: female. Subsequent description.

*Encarsia deserti* Gerling & Rivnay, 1984: 439-443. Type data: culture imported to Israel from California. Holotype female. Type depository: UTEL. Described: female. Synonymy by Polaszek et al, 1992: 385.

Encarsia angelica; Viggiani, 1986[249]: 60. Described: male. Illust. Subsequent description.

Encarsia luteola; Viggiani, 1989[306]: 210-211. Described: female. Subsequent description.

Encarsia luteola; Polaszek et al, 1992: 385. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Luteola) meritoria Gahan

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Trialeurodes abutilonea* [Viggia1990299], *Trialeurodes floridensis* (Quaint.) [Gahan1927].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: Nearctic: United States of America (Florida [Gahan1927]).

Encarsia meritoria Gahan, 1927: 19-20. Type data: USA: Florida, Miami. Holotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 29445. Described: female.

Encarsia hispida Viggiani, 1989[306]: 207-210. Described: both sexes. Illust.

#### Encarsia (Luteola) variegata Howard

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Paraleurodes* [Dozier1933a], *Paraleurodes naranjae* Dozier [Dozier1933a], *Paraleyrodes perseae* (Quaint.) [Gordh1979, Howard1908b].

CITATIONS: Dozier1933a [Rrc]; Howard1908b [Dea, An]; MorrilBa1912 [Bio].

DISTRIBUTION: Nearctic: United States of America (Florida [Howard1908b]).

*Encarsia variegata* Howard, 1908b: 64. Type data: USA: FL, Orlando. Lectotype female, by subsequent designation Viggiani, 1986b: 75. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 11707. Described: female.

Encarsia variegata; Mercet, 1912a: 166-167. Described: female. Subsequent description.

Encarsia variegata; Viggiani, 1986[249]: 75. Described: female. Illust. Subsequent description.

### Encarsia (Merceti) Hayat

Encarsia (Merceti) Hayat, 1989: 10.

### Encarsia (Merceti) bennetti Hayat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocanthus cinamomi* [HuangPo1998], *Aleurocanthus woglumi* [Hayat1989a].

CITATIONS: Hayat1984a [Ila, An]; Hayat1986.

DISTRIBUTION: **Oriental**: India (Maharashtra [Hayat1989a], Uttar Pradesh [HayatAy1998]); Pakistan [Hayat1989a]; Taiwan [HuangPo1998].

*Encarsia bennetti* Hayat, 1984a: 399-401. Type data: India: Nagpur, Gondkheri. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female.

Encarsia bennetti; Hayat, 1989a: 39-40. Described: female. Illust. Subsequent description.

Encarsia bennetti; Huang & Polaszek, 1998: 1847-1848. Described: both sexes. Illust. Subsequent description.

Encarsia bennetti; Hayat, 1998: 212. Described: female. Illust. Subsequent description.

### Encarsia (Merceti) merceti Silvestri

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleurocanthus woglumi* (Ashby) [DeSant1979a, Silves1928, Hayat1989a].

CITATIONS: DeSant1979a [Tc]; Flande1969 [Bc]; Hayat1986.

DISTRIBUTION: **Nearctic**: Mexico [Hayat1989a]. **Oriental**: India (Assam [Hayat1989a]); Indonesia [HayatAy1998]; Malaysia [Hayat1989a]; Philippines [Hayat1989a]; Singapore [Silves1928].

*Encarsia merceti* Silvestri, 1926: 187-189. Type data: Singapore. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia merceti; Silvestri, 1928: 40-41. Subsequent description.

Encarsia merceti; Hayat, 1989: ??.

Encarsia merceti; Hayat, 1998: 211-212. Described: both sexes. Illust. Subsequent description.

### Encarsia (Merceti) merceti modesta Silvestri

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurocanthus spiniferus [Silves1926].

DISTRIBUTION: Oriental: Philippines [Silves1926].

*Encarsia Merceti modesta* Silvestri, 1926: 189-190. Type data: Philippines. Unknown type status. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female.

Encarsia Merceti modesta; Silvestri, 1927: 42. Subsequent description.

# Encarsia (Merceti) tinctoriae Krishnan & Vasantharaj David

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocanthus woglumi* [HayatAy1998], *Lipaleyrodes euphorbiae* [HayatAy1998].

DISTRIBUTION: Oriental: India (Tamil Nadu [HayatAy1998]).

*Encarsia tinctoriae* Krishnan & Vasantharaj David, 1996: 21. Type data: India: Palavanthangal. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female.

Encarsia tinctoriae; Hayat, 1998: 213. Described: female. Illust. Subsequent description.

# Encarsia (Noyesi) Schmidt & Polaszek

*Encarsiella* Hayat, 1983: 85. Type species: *Encarsiella noyesi* Hayat, by original designation. Synonymy by Shafee & Rizvi, 1984: 379.

Encarsiella; Polaszek & Hayat, 1992: 192. Revived status.

Encarsia (Novesi) Schmidt & Polaszek, 2007b: 86.

Encarsiella Schmidt & Polaszek, 2007b: 86. Synonymy reestablished.

### Encarsia (Novesi) aleurodici (Girault)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurodicus [Giraul1916290].

CITATIONS: PolaszHa1992 [No].

DISTRIBUTION: Neotropical: Trinidad and Tobago (Trinidad [Giraul1916290]).

Coccophagus aleurodici Girault, 1916[290]: 401. Type data: WI: Trinidad. Syntypes. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 20223. Described: both sexes.

Prospaltella aleurodici; Compere, 1931: 11. Change of combination.

Encarsiella aleurodici; Viggiani, 1986[249]: 59. Change of combination.

Dirphys aleurodici; Hayat, 1989b: 288. Described: female and larva. Change of combination.

Encarsiella aleurodici; Polaszek & Hayat, 1992: 193. Described: female and larva. Revived status.

Encarsia aleurodici; Schmidt & Polaszek, 2007b: 85. Change of combination.

# Encarsia (Noyesi) amabilis (Huang & Polaszek)

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [PolaszHu1998]).

*Encarsiella amabilis* Huang & Polaszek, 1998: 1650-1652. Type data: People's Republic of China: Fujian. Holotype female, by original designation. Type depository: FACC. Described: female. Illust.

Encarsia amabilis; Schmidt & Polaszek, 2007b: 85. Change of combination.

### Encarsia (Noyesi) boswelli (Girault) new combination

ASSOCIATIONS: Associates - HETEROPTERA Plataaspidae: Megacopta cribraria (F.) [PolaszHa1992].

Plataspidae: Brachyplatys vahlii (F.) [PolaszHa1992].

CITATIONS: PolaszHa1992 [No]; PolaszHa1992 [No]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1915238, PolaszHa1992]).

Coccophagus filius Girault, 1915[238]: 48. Synonymy by Polaszek & Hayat, 1990: 1.

Coccophagus filius Girault, 1915[238]: 48, 56. Type data: Australia: QLD, Gordonvale (Cairns). Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2924. Described: female. Synonymy by Polaszek & Hayat, 1992: 193.

Coccophagus boswelli Girault, 1915[238]: 49-50, 56. Type data: Australia: QLD, Cooktown. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2928. Described: female.

Prospaltella boswelli; Compere, 1931: 11. Change of combination.

Prospaltella filia; Compere, 1931: 11. Change of combination.

Coccophagus boswelli; Dahms, 1983: 145.

Encarsia boswelli; Viggiani, 1985[233]: 237. Described: female. Illust. Change of combination.

Dirphys filius; Hayat, 1989: 288. Described: female and larva. Change of combination.

Dirphys boswelli; Hayat, 1989c: 288. Change of combination.

Encarsiella boswelli; Polaszek & Hayat, 1992: 193. Described: female and larva. Illust. Change of combination.

Encarsia boswelli; Schmidt & Polaszek, 2007b. Change of combination.

### Encarsia (Noyesi) magniclava (Girault)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurochiton* sp., *Eudialeurodicus bodkini* Q. & B. [DeSant1979a].

CITATIONS: PolaszHa1992 [No].

DISTRIBUTION: Neotropical: Guyana [Giraul1915262, PolaszHa1992].

Coccophagus magniclavus Girault, 1915[262]: 33-34. Type data: British Guiana: Berlice, Demerara. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 19343-7. Described: both sexes.

Prospaltella magniclavis?; Compere, 1931: 11. Change of combination.

Encarsiella magniclava; Viggiani, 1986[249]: 66-67. Described: female. Illust. Change of combination.

Dirphys magniclavus; Hayat, 1989b; 288, Described; female and larva. Change of combination.

Encarsiella magniclava; Polaszek & Hayat, 1992: 193-195. Described: female and larva. Revived status.

Encarsia magniclava; Schmidt & Polaszek, 2007b: 85. Change of combination.

### Encarsia (Noyesi) narroi Gomez & Garcia

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurodicus sp. [GomezGa2000].

DISTRIBUTION: Nearctic: Mexico [GomezGa2000].

*Encarsia narroi* Gomez & Garcia, 2000: 50-. Type data: Mexico. Holotype female, by original designation. Type depository: NRCB. Described: both sexes. Illust.

Encarsiella narroi; Myatrseva & Coronado-Blanco, 2002: xx. Change of combination.

Encarsia narroi; Schmidt & Polaszek, 2007b. Change of combination.

## Encarsia (Noyesi) nepalensis (Polaszek & Hayat)

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae [PolaszHa1992].

DISTRIBUTION: Oriental: Nepal [PolaszHa1992].

*Encarsiella nepalensis* Polaszek & Hayat, 1992: 195-196. Type data: Nepal: Kathmandu. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust. *Encarsia nepalensis*; Schmidt & Polaszek, 2007b: 85. Change of combination.

### Encarsia (Noyesi) noyesi (Hayat)

Encarsiella noyesi Hayat, 1983: 83. Type data: Trinidad: St. George, St. Augustine. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

Encarsiella noyesi; Polaszek & Hayat, 1992: 195-196. Revived combination.

Encarsia noyesi; Schmidt & Polaszek, 2007b: 85. Change of combination.

## Encarsia (Noyesi) obliqua Schmidt & Polaszek

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Australasian**: Australia (Queensland [SchmidPo2007b]); Papua New Guinea [SchmidPo2007b]. *Encarsia obliqua* Schmidt & Polaszek, 2007b: 89-90. Type data: Papua New Guinea: Central District, Aroa plantation. Holotype female, by original designation. Type depository: London: Natural History Museum,

England. Described: female. Illust.

## Encarsia (Noyesi) pithecura (Polaszek)

*Encarsiella pithecura* Polaszek, 1999: xx. Neotype female and larva, by **present designation**. Type depository: Ithaca: Cornell University Insect Collection, Department of Entomology, Cornell University, NY, USA. Described: female and larva.

Encarsia pithecura; Schmidt & Polaszek, 2007b: 85. Change of combination.

### Encarsia (Noyesi) tachii (Polaszek & Hayat)

DISTRIBUTION: Oriental: China (Hainan [PolaszHa1992]).

*Encarsiella tachii* Polaszek & Hayat, 1992: 196. Type data: China: Hainan Island, Tien Fong Mountains. Holotype female, by original designation. Type depository: BEIJING. Described: female. Illust.

Encarsia tachii; Schmidt & Polaszek, 2007b: 85. Change of combination.

# Encarsia (Noyesi) taiwanensis (Chou & Chou)

DISTRIBUTION: Oriental: Taiwan [ChouCh1994].

*Encarsiella taiwanensis* Chou & Chou, 1994: 469-471. Type data: Taiwan. Holotype female, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: both sexes. Illust.

Encarsia taiwanensis; Schmidt & Polaszek, 2007b: 85. Change of combination.

# Encarsia (Noyesi) tamaulipeca (Myartseva and Coronado-Blanco)

DISTRIBUTION: Nearctic: Mexico (Tamaulipas [MyatrsCo2002]).

*Encarsiella tamaulipeca* Myartseva and Coronado-Blanco, 2000: xx. Type data: Mexico: Taumaulipas. Neotype female and larva, by **present designation**. Described: female and larva.

Encarsia tamaulipeca; Schmidt & Polaszek, 2007b: 85. Change of combination.

### Encarsia (Opulenta) Viggiani & Mazzone

Encarsia (Opulenta) Viggiani & Mazzone, 1979[144]: 45.

Encarsia (Opulenta); Havat, 1989: 11.

## Encarsia (Opulenta) albiscutellum (Girault)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus sp. [HuangPo1998].

CITATIONS: Hayat1989a [Tdi]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1913167, Giraul1915238, Giraul1920352]).

Oriental: China (Fujian (=Fukien) [HuangPo1998]); Taiwan [HuangPo1998].

Prospaltella albiscutellum Girault, 1913[167]: 188. Type data: Australia: QLD, Brisbane. Holotype female, by monotypy. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.1730. Described: female.

Coccophagus albiscutellum schilleri Girault, 1915[238]: 48. Type data: Australia: QLD, Gordonvale (Cairns). Unknown type status female. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female. Synonymy by Schmidt & Polaszek, 2007a: 2119.

Coccophagus albiscutellum; Girault, 1915[238]: 48, 57. Change of combination.

Coccophagus perbellus Girault, 1920[352]: 46. Type data: Australia: QLD, Gordonvale. Unknown type status female. Type depository: Brisbane: Queensland Museum, Queensland, Australia. Described: female. Synonymy by Schmidt & Polaszek, 2007a: 2120.

Prospaltella albiscutellum; Compere, 1931: 11.

Prospaltella perbella; Compere, 1931: 11. Change of combination.

Prospaltella schilleri; Compere, 1931: 11. Change of combination.

Prospaltella albiscutellum; Dahms, 1983: 34.

Encarsia albiscutellum; Viggiani, 1985[233]: 234-235. Described: female. Illust. Change of combination.

Encarsia perbella; Viggiani, 1985[233]: 246. Described: female. Illust. Change of combination.

Coccophagus perbellus; Dahms, 1986: 399.

Encarsia schilleri; Noyes, 1997. Change of combination.

## Encarsia (Opulenta) albiscutellum longipalpa Hayat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurolobus* [Hayat1989a]. **Coccidae**: *Nipaecoccus*? [HayatAy1998].

CITATIONS: ChouChKo1996.

DISTRIBUTION: **Oriental**: India (Tamil Nadu [HayatAy1998], Uttar Pradesh [Hayat1989a]); Taiwan [HayatAy1998].

*Encarsia albiscutellum longipalpa* Hayat, 1989a: 34-35. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust. *Encarsia albiscutellum longipalpa*; Hayat, 1998: 193. Described: both sexes. Illust. Subsequent description.

## Encarsia (Opulenta) amicula Viggiani & Ren

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Hemiberlesia pitysophilia* Takagi [ViggiaRe1986248, HuangPo1998].

CITATIONS: Huang1994 [Tde]; LiangCh1990 [Ran]; ViggiaRe1993335.

DISTRIBUTION: Oriental: China (Guangdong (=Kwangtung) [HuangPo1998, ViggiaRe1986248]).

*Encarsia amicula* Viggiani & Ren, 1986[248]: 37. Type data: People's Republic of China: Guangdong. Holotype female, by original designation. Type depository: EIGD. Described: female.

Encarsia amicula; Huang & Polaszek, 1998: 1841-1842. Described: both sexes. Illust. Subsequent description.

# Encarsia (Opulenta) bangalorensis Hayat

DISTRIBUTION: Oriental: India (Kerala [Hayat1989a]).

Encarsia bangalorensis Hayat, 1989a: 35-36. Type data: India: Karnataka, Bangalore. Holotype female, by original designation. Type depository: London: Natural History Museum, England; type no. 979-518. Described: female. Illust

Encarsia bangalorensis; Hayat, 1998: 197. Described: female. Illust. Subsequent description.

# Encarsia (Opulenta) bellottii Evans & Castillo

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurotrachelus socialis [EvansCa1998], Trialeurodes variabilis.

DISTRIBUTION: Neotropical: Colombia [EvansCa1998].

KEYS: Evans & Castillo 1998: 172 [Colombia].

Encarsia bellottii Evans & Castillo, 1998: 172-173. Type data: Colombia: Cauca, Buenos Aires; reared from ALeurotrachelus socialus on Manihot esculenta. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

## Encarsia (Opulenta) clypealis (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Aleurocanthus inceratus Silvestri [Silves1928],

Aleurocanthus woglumi (Ashby), Aleyrodes [HayatAy1998]. Diaspidae: Lepidosaphes beckii? [HayatAy1998].

CITATIONS: Flande1969 [Bc]; Hayat1986 [Tc]; HusainAg1982 [Dea]; KrishnVa1996 [Ran, Tc]; Shafee1973 [Tk]; ViggiaMa1979144 [Tn].

DISTRIBUTION: **Nearctic**: Mexico [HayatAy1998]. **Oriental**: India (Andhra Pradesh [Hayat1989a], Karnataka [Hayat1989a]); Malaysia [HayatAy1998]; Pakistan [HayatAy1998].

*Prospaltella clypealis* Silvestri, 1928: 28-30. Type data: Indocina: Coxan (Tonkino). Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia clypealis; Krishnamurti & Usman, 1954: 327-344?. Subsequent description.

Encarsia clypealis; Hayat, 1989a: 30-31. Described: both sexes. Illust. Subsequent description.

Encarsia clypealis; Hayat, 1998: 193-194. Described: both sexes. Illust. Subsequent description.

## Encarsia (Opulenta) colima Myartseva

ASSOCIATIONS: Associate - HEMIPTERA Alevrodidae: Aleurocanthus woglumi Ashby [Myarts2005].

DISTRIBUTION: Nearctic: Mexico (Colima [Myarts2005]).

*Encarsia colima* Myartseva, 2005: 150. Type data: Mexico. Holotype male, by original designation. Type depository: Riverside: UCR Entomological Teaching and Research Collection, Univ. Calif., CA, USA. Described: both sexes. Illust.

### Encarsia (Opulenta) eurystoma Hayat

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [HayatAy1998].

DISTRIBUTION: Oriental: India (Andhra Pradesh [HayatAy1998]).

*Encarsia eurystoma* Hayat, 1998: 195-196. Type data: India: Andhra Pradesh, Guntur. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: both sexes. Illust.

### Encarsia (Opulenta) fujianensis Huang & Polaszek

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus szechwanensis Young [HuangPo1998].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia fujianensis* Huang & Polaszek, 1998: 1882-1884. Type data: China: Fujian, Fuzhou, Jianxin. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Opulenta) ishii (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus spiniferus (Quaintance) [Silves1926], Aleurocanthus woglumi [HuangPo1998], Aleuroplatus pectiniferus (Quaintance & Baker).

CITATIONS: Hayat1989a; LiaoLiPa1987; Thomps1953; ViggiaMa1979144; ViggiaMa1979144; Wu1941.

DISTRIBUTION: **Oriental**: China (Guangxi (=Kwangsi) [HuangPo1998], Jiangsu (=Kiangsu) [Silves1926]); Hong Kong [HuangPo1998]; Taiwan [HuangPo1998].

Prospaltella ishii Silvestri, 1926: 185-187. Type data: China: Soochow [Jiangsu, Suzhou]. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Prospaltella ishii; Silvestri, 1928: 25-28. Described: female. Illust. Subsequent description.

Encarsia ishii; Viggiani & Mazzone, 1979[144]: ??. Change of combination.

Encarsia ishii; Huang & Polaszek, 1998: 1896-1897. Described: both sexes. Illust. Subsequent description.

# Encarsia (Opulenta) longicauda Hayat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [Hayat1989a], *Aleurotuberculatus murrayae* (Singh) [HuangPo1998].

CITATIONS: SchmidPo2007a [Da, Ila, Rr]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Oriental**: India (Andhra Pradesh [HayatAy1998], Rajasthan [HayatAy1998], Tamil Nadu [Hayat1989a]); Taiwan [HuangPo1998].

*Encarsia longicauda* Hayat, 1989a: 33-34. Type data: India: Tamil Nadu, Sri Rangham. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 276E. Described: both sexes. Illust.

*Encarsia longicauda*; Huang & Polaszek, 1998: 1904-1906. Described: female. Illust. Subsequent description. *Encarsia longicauda*; Hayat, 1998: 196-197. Described: both sexes. Illust. Subsequent description.

### Encarsia (Opulenta) nigrifemur (Girault)

DISTRIBUTION: Oriental: Indonesia (Java [Giraul1914219]).

*Prospaltella nigrifemur* Girault, 1914[219]: 118. Type data: Java: Passoeroean. Lectotype female, by subsequent designation Viggiani, 1986b: 68. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.7309. Described: female.

*Encarsia nigrifemur*; Viggiani, 1986[249]: 67-68. Described: female. Illust. Change of combination. *Encarsia nigrifemur*; Hayat, 1989: ??.

## Encarsia (Opulenta) opulenta (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocanthus inceratus* Silvestri [Silves1928], *Aleurocanthus spiniferus* (Quaintance) [HuangPo1998], *Aleurocanthus woglumi* Ashby? [Willia1991, SwezeyVa1991, SummyGiHa1985, SummyGi1992, TsaiSt1991, Thomps1985, SelhimHaHa1982, RuBrPo]. HYMENOPTERA **Platygastridae**: *Amitus hesperidum* [Willia1991].

CITATIONS: Flande1969 [Bc]; Hayat1986 [Tc]; NguyenSa1987 [Dea, Ila, Int, Fe, Hc, Po]; SelhimHaHa1982 [Dei, Dea, Int, Pa ]; Shafee1973 [Tk]; SummyGi1992 [Pa, Po, Bc, Hc]; SummyGiHa1985 [Fe, Lo, Mor, Pa, Po, Bc, Int]; SwezeyVa1991 [Pa, Po, Hc, Bc, Cc]; Thomps1985; TsaiSt1991 [Pa, Hc, Bc]; Willia1991 [Ser, Hc].

DISTRIBUTION: Nearctic: Mexico [SummyGiHa1985]; United States of America (Florida [NguyenBrPo1983]). Neotropical: Barbados [Hayat1989a]; Jamaica [Hayat1989a]. Oriental: China (Fujian (=Fukien) [HuangPo1998]); India [SummyGiHa1985, Hayat1989a]; Pakistan [SummyGiHa1985]; Vietnam [Silves1928]. Palaearctic: China (Anhui (=Anhwei) [HuangPo1998]).

Prospaltella opulenta Silvestri, 1928: 30-32. Type data: Indochina [Vietnam]: Van Phu (Tonkino). Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. Encarsia opulenta; Viggiani & Mazzone, 1979[144]: 45. Change of combination.

Encarsia opulenta; Hayat, 1989a: 31-32.

*Encarsia opulenta*; Huang & Polaszek, 1998: 1929-1930. Described: both sexes. Illust. Subsequent description. *Encarsia opulenta*; Hayat, 1998: 194-195. Described: both sexes. Illust. Subsequent description.

### Encarsia (Opulenta) perplexa Huang & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus woglumi [HuangPo1998], Aleuroplatus pectiniferus [HuangPo1998], Aleurotuberculatus kuwani Takahshi [HuangPo1998].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: **Nearctic**: Mexico [HuangPo1998]; United States of America [HuangPo1998]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998]); India [HuangPo1998]; Taiwan [HuangPo1998].

*Encarsia perplexa* Huang & Polaszek, 1998: 1934-1936. Type data: China: Fujian, Fuzhou, Jinshan. Holotype female, by original designation. Type depository: FAU. Described: both sexes. Illust.

# Encarsia (Opulenta) punicae Hayat

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Siphoninus phillyreae? [HayatAy1998].

DISTRIBUTION: Oriental: India (Karnataka [HayatAy1998]).

*Encarsia punicae* Hayat, 1998: 198-199. Type data: India: Karnataka, Hessaraghatta. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: both sexes. Illust.

## Encarsia (Opulenta) subhyalina Schmidt & Polaszek

DISTRIBUTION: **Australasian**: Australia (Queensland [SchmidPo2007a], Western Australia [SchmidPo2007a]). *Encarsia subhyalina* Schmidt & Polaszek, 2007a: 2241-2242. Type data: Australia: WA, Kununurra. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia (Opulenta) terebrator (Shafee)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [Hayat1989a].

CITATIONS: Shafee1974 [Dea, Ila].

DISTRIBUTION: Oriental: India (Andhra Pradesh [Shafee1974]).

*Prospaltella terebrator* Shafee, 1974: 33-39. Type data: India, Guntar. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: both sexes.

*Encarsia terebrator*; Hayat, 1986: 163. Described: female and larva. Change of combination. *Encarsia terebrator*; Hayat, 1989a: 32-33. Described: female. Illust. Subsequent description.

## Encarsia (Opulenta) townsendi Howard

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleyrodes.

DISTRIBUTION: Nearctic: Mexico.

*Encarsia townsendi* Howard, 1907: 78-79. Type data: Mexico: Tabasco. Lectotype female, by subsequent designation Viggiani, 1986b: 75. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female.

Encarsia townsendi; Mercet, 1912a: 165-166. Described: female. Subsequent description.

Encarsia townsendi; Viggiani, 1986[249]: 75. Described: female. Illust. Subsequent description.

### Encarsia (Parvella) Viggiani & Mazzone

Encarsia (Parvella) Viggiani & Mazzone, 1979[144]: 46.

Aleurodiphilus DeBach & Rose, 1981: 659-660. Type species: Aleurodiphalus americanus DeBach & Rose, by original designation. Synonymy by Hayat, 1983: 85.

Encarsia (Parvella); Hayat, 1989: 10.

#### Encarsia (Parvella) acaudaleyrodis Hayat

ASSOCIATIONS: Associate - HEMIPTERA **Aleyrodidae**: *Acaudeleyrodes rachipoda* (Singh) [new]. Hosts - HEMIPTERA **Aleyrodidae**: *Acaudaleurodes citri* (Priesner & Hosny) [PolaszAb1999], *Acaudaleyrodes rhachipora* [PolaszEvBe1992], *Bemisia tabaci* (Gennadius) [PolaszAb1999], *Tetraleurodes leguninicola* Bink. [PolaszAb1999].

CITATIONS: DeBachRo1981 [Dea, No]; Hayat1976 [Ila, An]; Hayat1986 [Tc]; HernanCaAg2003 [Rr, Da]; KrishnVa1996 [Dea, Hre]; Mani1989 [Dea].

DISTRIBUTION: **Oriental**: India (Delhi [Hayat1989a], Rajasthan [Hayat1989a]). **Palaearctic**: Canary Islands [HernanCaAg2003].

*Encarsia acaudaleyrodis* Hayat, 1976: 158-159. Type data: India, Sardar Samand. Holotype female, by original designation. Type depository: Calcutta: National Zoological Collection, Zoological Survey of India, India. Described: both sexes. Illust.

Encarsia acaudaleyrodis; Hayat, 1989a: 28-29. Described: both sexes. Illust. Subsequent description.

Encarsia acaudaleyrodis; Hayat, 1998: 190-191. Described: both sexes. Illust. Subsequent description.

Encarsia acaudaleyrodis; Polaszek, Abd-Rabou and Huang, 1999: 135-137. Illust. Subsequent description.

Encarsia acaudaleyrodis; Hernandez-Suarez et al., 2003: 59. Subsequent description.

#### Encarsia (Parvella) aleuroplati Viggiani

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleuroplatus cadabae* Priesner & Hosny [Viggia1988275]. CITATIONS: PedataPo2003 [Da, ill, Rr].

DISTRIBUTION: Afrotropical: Ethiopia [Viggia1988275]; Somalia [PedataPo2003].

*Encarsia aleuroplati* Viggiani, 1988[275]: 33-35. Type data: Ethiopia: Melka Werer. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

## Encarsia (Parvella) americana (DeBach & Rose)

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleurothixus floccossus* (Maskell) [DeBachRo1981]. CITATIONS: Hayat1983; SchaufEvHe1996 [Tde].

DISTRIBUTION: Nearctic: Mexico (Baja California Sur [DeBachRo1981], Colima [DeBachRo1981], Guerrero [DeBachRo1981], Morelos [DeBachRo1981], Oaxaca [DeBachRo1981], San Luis Potosi [DeBachRo1981], Sinola [DeBachRo1981], Veracruz [DeBachRo1981]); United States of America (California [SchaufEvHe1996]). Neotropical: Brazil (Rio de Janeiro [DeBachRo1981]); El Salvador [DeBachRo1981];

Honduras [SchaufEvHe1996]. Aleurodiphilus americanus DeBach & Rose, 1981: 660-670. Type data: Mexico: Colima, Santiago (Manzanillo). Holotype female, by original designation. Type depository: Riverside: UCR Entomological Teaching and

Research Collection, Univ. Calif., CA, USA. Described: both sexes. Illust.

Encarsia americana; Hayat, 1983: 70. Change of combination.

## Encarsia (Parvella) aseta Hayat & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurotrachelus* sp. [HuangPo1998], *Dialeurolonga elongata* Dozier [HayatPo1992].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Australasian**: Hawaiian Islands [HuangPo1998]. **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Shanghai [HuangPo1998]).

*Encarsia aseta* Hayat & Polaszek, 1992: 107-109. Type data: India: Maharashtra, Nagpur. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

Encarsia aseta; Huang & Polaszek, 1998: 1844-1845. Described: female. Illust. Subsequent description.

Encarsia aseta; Hayat, 1998: 191-192. Described: female. Illust. Subsequent description.

## Encarsia (Parvella) basicincta Gahan

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleurothrixus floccosus* (Maskell) [DeSant1979a, Gahan1927].

CITATIONS: DeBachRo1981 [No]; Viggia1993338 [Tky].

DISTRIBUTION: **Neotropical**: Puerto Rico & Vieques Island [Gahan1927].

*Encarsia basicincta* Gahan, 1927: 20-21. Type data: Puerto Rico.. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA.

### Encarsia (Parvella) citrofila (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeurodes citri [Silves1928].

CITATIONS: Hayat1976 [Dea].

DISTRIBUTION: Oriental: Vietnam [Silves1928].

Prospaltella citrofila Silvestri, 1928: 33-34. Type data: Indocina: Coxan (Tonkino). Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

### Encarsia (Parvella) flavescens Huang & Polaszek

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia flavescens* Huang & Polaszek, 1998: 1876-1877. Type data: China: Fujian, Fuzhou. Holotype female, by original designation. Type depository: FAU. Described: female. Illust.

## Encarsia (Parvella) gerlingi Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus sp. [Viggia1989293].

CITATIONS: Viggia1989293.

DISTRIBUTION: Afrotropical: Kenya [Viggia1989293]. Oriental: China (Fujian (=Fukien) [HuangPo1998]).

*Encarsia gerlingi* Viggiani, 1989[293]: 515-517. Type data: Kenya: Malindi. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. *Encarsia gerlingi*; Huang & Polaszek, 1998: 1885-1887. Described: female. Illust. Subsequent description.

### Encarsia (Parvella) lanceolata Evans & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurotrachelus atratus* Hempel, *Bemisia tabaci* complex [EvansPo1997], *Tetraleurodes acaciae* (Quaintance) [EvansPo1997].

CITATIONS: EvansPo1997.

DISTRIBUTION: **Nearctic**: Mexico (Mexico State [EvansPo1997]); United States of America (Florida [EvansPo1997]). **Neotropical**: Brazil (Para· [EvansPo1997]); Ecuador [EvansPo1997]; Puerto Rico & Vieques Island [EvansPo1997].

*Encarsia lanceolata* Evans & Polaszek, 1997: 564-565. Type data: Puerto Rico: Mayaguez. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

#### Encarsia (Parvella) mineoi Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Acaudaleyrodes citri* [RivnayGe1987, PolaszAb1999], *Bemisia tabaci* (Gennadius) [PolaszEvBe1992, Viggia1982185, SchmidNaDe2001, PolaszAb1999], *Siphoninus phillyreae* [PolaszAb1999].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; ManzarPoBe2002 [molecular phylogenetics.]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Afrotropical**: Sudan [PolaszEvBe1992]. **Australasian**: Australia (Queensland [SchmidNaDe2001]). **Palaearctic**: Egypt [PolaszEvBe1992]. **Palaearctic**: Egypt [PolaszAb1999]. **Palaearctic**: Libya [Viggia1982185].

KEYS: Schmidt et al. 2001: 372 [Australia.].

Encarsia mineoi Viggiani, 1982[185]: 27. Type data: Libya: Sidi Mesri. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

Encarsia mineoi; Polaszek et al. 1992: 386. Described: female. Illust. Subsequent description.

Encarsia mineoi; Polaszek, Abd-Rabou and Huang, 1999: 156-158. Illust. Subsequent description.

Encarsia mineoi; Schmidt et al., 2001: 379-381. Illust. Subsequent description.

### Encarsia (Parvella) nipponica Silvestri

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurocanthus spiniferus [Silves1928], Aleurotuberculatus jasmini [HuangPo1998], Aleurotuberculatus melastomae [HuangPo1998].

CITATIONS: DeBachRo1981 [No]; Hayat1976 [Dea]; LiaoLiPa1987; ViggiaRe1993335.

DISTRIBUTION: **Australasian**: Hawaiian Islands (Hawaii [Viggia1993338]). **Oriental**: China (Fujian (=Fukien) [HuangPo1998]). **Palaearctic**: Japan [Silves1928].

*Encarsia nipponica* Silvestri, 1928: 42-44. Type data: Japan: Nagasaki. Syntypes, female (examined). Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. *Encarsia nipponica*; Hayat, 1976: 157.

*Encarsia hawaiiana* Viggiani, 1993[338]: 121-123. Type data: Hawaii, Hilo. Holotype female, by original designation. Type depository: UNP. Described: female. Illust. Synonymy by Huang & Polaszek, 1998: 1924. *Encarsia nipponica*; Huang & Polaszek, 1998: 1924-1925. Described: female. Illust. Subsequent description.

### Encarsia (Parvella) parvella Silvestri

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**. CITATIONS: DeBachRo1981 [No]; Hayat1976 [Dea]. DISTRIBUTION: **Afrotropical**: Nigeria [Silves1915].

Encarsia parvella Silvestri, 1915: 346-366?. Type data: Nigeria: Lagos.

Encarsia parvella; Hayat, 1989: ??.

# Encarsia (Parvella) pergandiella Howard

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleuroplates coronatus (Quaint.) [Gordh1979, Gerlin1966], Aleurotrachelus socialis [EvansCa1998], Aleyrodes azalea Baker & Moles [Gerlin1966], Aleyrodes spiraeoides Quaintance [Gerlin1966], Bemisia tabaci (Gennadius) [RivnayGe1987, SchmidNaDe2001], Trialeurodea variabilis (Quaintance) [PolaszEvBe1992], Trialeurodes abutilonea (Hald.) [Gordh1979], Trialeurodes packardi Morill [Hunter1989a, Hunter1993b, HunterNuWe1993a, Hunter1989b], Trialeurodes vaporariorum (Westwood) [RivnayGe1987, Hunter1989a, HunterNuWe1993a, Hunter1989b, SchmidNaDe2001], Trialeurodes variabilis [EvansCa1998].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; DeBachRo1981 [No]; Gerlin1966 [No, Dea, Ila, Ili, Sed, Dev, Em, Fe, Lo, Pa, Ser, Hc, Ho, Ov, Hy, Bc]; Gerlin1966 [Dea]; Giraul190848 [Dea, An, Ge, Ho]; Hayat1976 [Dea]; Hunter1989a [Pa, Sed, Ov, Hc, Bc]; Hunter1989b [Dev, Mor, Ov]; Hunter1993b [Sed, Pa, Ser, Ov, Hc]; HunterNuWe1993a [Ili, Ka, Dev, Sed, Ser]; ManzarPoBe2002 [molecular phylogenetics.]; PolaszEvBe1992; RivnayGe1987 [Int, Hc]; SchmidPo2007a [Da, Ila, Rr]; Vet1980 [Bc, Bp, Fe, Dev, Lo, Ov]; Viggia1993338 [Tky]; Viggia1993338 [Cco, Iec, Lhi, Rng].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidNaDe2001], South Australia [SchmidNaDe2001], Victoria [SchmidNaDe2001]). Nearctic: Mexico [PolaszEvBe1992]; United States of America (California [Viggia1988277, RivnayGe1987]). Neotropical: Brazil [PolaszEvBe1992]; Colombia [EvansCa1998] [PolaszEvBe1992]; Costa Rica [PolaszEvBe1992]; El Salvador [PolaszEvBe1992]; Grenada [PolaszEvBe1992]; Guadeloupe [PolaszEvBe1992]; Guatemala [PolaszEvBe1992]; Honduras [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]; Venezuela [PolaszEvBe1992]. Palaearctic: Israel [RivnayGe1987]; Italy [Viggia1988277].

KEYS: Schmidt et al. 2001: 372 [Australia.]; Evans & Castillo 1998: 172. [Colombia].

*Encarsia pergandiella* Howard, 1907: 78. Type data: USA: DC, Washington. Holotype female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female.

Encarsia versicolor Girault, 1908[48]: 53. Type data: USA: IL, Urbana (greenhouse). Syntypes, X. Type depository:

Champaign: Illinois Natural History Survey Insect Collection, IL, USA; type no. 37474. Synonymy by Gahan in Peck, 1951: 438.

Encarsia pergandiella; Mercet, 1912a: 163-164. Described: female. Subsequent description.

Encarsia versicolor, Mercet, 1912a: 167-172. Described: both sexes. Subsequent description.

Encarsia pergandiella; Viggiani & Mazzone, 1980[161]: 40. Subsequent description.

*Encarsia bemisiae* DeSantis, 1981: 37. Type data: Brazil: Sao Paulo. Holotype female. Type depository: La Plata: Museo de la Plata, Universidad Nacional de La Plata, Division Entomologia, Argentina. Described: female. Synonymy by Polaszek et al, 1992: 387.

Aleurodiphilus pergandiella; DeBach & Rose, 1981: 666. Change of combination.

Encarsia tabacivora Viggiani, 1985[232]: 82. Replacement name.

*Encarsia pergandiella*; Viggiani, 1988[277]: 160-162. Described: both sexes. Illust. Subsequent description. *Encarsia pergandiella*; Polaszek et al, 1992: 386-387. Described: both sexes. Illust. Subsequent description.

Encarsia pergandiella; Schmidt et al., 2001: 381-383. Illust. Subsequent description.

#### Encarsia (Parvella) sueloderi Polaszek

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleurotulus pteridophytae* Martin [MoundMaPo1994]. DISTRIBUTION: **Neotropical**: Costa Rica [MoundMaPo1994].

*Encarsia sueloderi* Polaszek, 1994: 1409-1412. Type data: Costa Rica: north Heredia Province, La Selva Biological Reserve. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

### Encarsia (Perflava) Hayat

Encarsia (Perflava) Hayat, 1989: 11.

No species found.

## Encarsia (Pergandiella) Viggiani & Mazzone

Encarsia (Pergandiella) Viggiani & Mazzone, 1979[144]: 46.

Encarsia (Pergandiella); Viggiani, 1993: 123. Change of status.

KEYS: Viggiani 1993: 123 (adult) [Pergandiella group.].

No species found.

### Encarsia (Scapeata) Viggiani

Encarsia (Scapeata) Viggiani, 1989[305]: 178.

# Encarsia (Scapeata) longisetae Viggiani

DISTRIBUTION: Afrotropical: Senegal [Viggia1989305].

*Encarsia longisetae* Viggiani, 1989[305]: 175-178. Type data: Senegal: Cape Verde Island, S. Jorge. Holotype female, by original designation. Type depository: UNP. Described: both sexes. Illust.

### Encarsia (Scapeata) scapeata Rivnay

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [RivnayGe1987].

CITATIONS: RivnayGe1987 [Dea, Ila].

DISTRIBUTION: Palaearctic: Israel [RivnayGe1987].

Encarsia scapeata Rivnay, 1987: 467-469. Type data: Israel: Mt. Meron. Holotype female, by original designation.

Type depository: TEL AVIV. Described: both sexes. Illust.

#### **Encarsia (Septentrionalis) Havat**

Encarsia (Septentrionalis) Hayat, 1989: 11.

#### Encarsia (Septentrionalis) septentrionalis Havat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurolobus* [Hayat1989a], *Dialeurodes* [Hayat1989a], *Singhiella bicolor* [Hayat1989a]. **Coccidae**: *Cerococcus*? [Hayat1989a].

DISTRIBUTION: **Oriental**: India (Bihar [Hayat1989a], Delhi [Hayat1989a], Uttar Pradesh [Hayat1989a]); Pakistan [HayatAy1998].

*Encarsia septentrionalis* Hayat, 1989a: 68-69. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh Muslim University, Deptartment of Zoology, India; type

no. 100E. Described: female. Illust.

Encarsia septentrionalis; Hayat, 1998: 208-209. Described: female. Illust. Subsequent description.

### Encarsia (Singularis) Viggiani & Ren

Encarsia (Singularis) Viggiani & Ren, 1987[274]: 25.

### Encarsia (Singularis) africana (Hill)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Incoaspis dentolibis [Hill1970].

DISTRIBUTION: Afrotropical: Uganda [Hill1970].

Hispaniella africana Hill, 1970: 97-99. Type data: Uganda. Holotype female; type no. BMNH. Described: female.

Encarsia lounsburyi; Subba Rao, 1984: ??. Change of combination.

Encarsia africana; Viggiani, 1985[232]: 90. Change of combination.

## Encarsia (Singularis) liliyingae Viggiani & Ren

ASSOCIATIONS: Host - HEMIPTERA Diaspididae.

CITATIONS: ViggiaRe1993335.

DISTRIBUTION: **Oriental**: China (Guangdong (=Kwangtung) [ViggiaRe1987274]).

*Encarsia liliyingae* Viggiani & Ren, 1988[274]: 25-28. Type data: People's Republic of China: Guangdong, Guangzhou. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F.

Silvestri, Portici, Italy. Described: female. Illust.

Encarsia liliyingae; Huang & Polaszek, 1998: 1903-1904. Described: female and larva. Subsequent description.

## Encarsia (Singularis) singularis (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Cornuaspis beckii [Silves1930].

CITATIONS: Thomps1953.

DISTRIBUTION: **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung) [HuangPo1998]); Taiwan [Silves1930].

*Prospaltella singularis* Silvestri, 1930: 57-59. Type data: Taiwan: Washoshu. Holotype male (examined), by monotypy. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: male. Illust.

*Prospaltella beethoveni* Girault, 1931[435]: 3 [282]. Described: female and larva. Unjustified replacement name for singularis Silvestri 1930; discovered by Woolley, 2000.

Encarsia singularis; Huang & Polaszek, 1998: 1944-1947. Described: both sexes. Illust. Subsequent description.

### Encarsia (Smithi) Vigginai & Mazzone

Encarsia (Smithi) Vigginai & Mazzone, 1979[144]: 45.

### Encarsia (Smithi) bunyae Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurocanthus sp. [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia bunyae* Schmidt & Polaszek, 2007a: 2142-2143. Type data: Australia: QLD, Bunya Mountains. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Smithi) fasciola Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia fasciola* Schmidt & Polaszek, 2007a: 2164-2165. Type data: Australia: NSW, Tooloom Plateau. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Strenua) Viggiani & Mazzone

Encarsia (Strenua) Viggiani & Mazzone, 1979[144]: 46.

Encarsia (Strenua); Hayat, 1989: 11.

Encarsia (Strenua); Polaszek et al., 1992: 388.

### Encarsia (Strenua) abundantia Chou & Su

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae: Dialeurodes citri (Ashmead), Dialeurodes dioscoreae

[ChouSuCh1996], *Dialeurodes kirkaldi* [ChouSuCh1996], *Dialeurodes tetrastigmae* [ChouSuCh1996]. DISTRIBUTION: **Oriental**: Taiwan [ChouSuCh1996, HuangPo1998].

*Encarsia abundantia* Chou & Su, 1996: 137-139. Type data: Taiwan:Taichung, Wufeng. Holotype female, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: female. Illust.

Encarsia abundantia; Huang & Polaszek, 1998: 1836-1837. Described: female. Illust. Subsequent description.

### Encarsia (Strenua) armata (Silvestri)

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Aleurolobus subrotundus* Silvestri [Silves1928]. DISTRIBUTION: **Oriental**: Vietnam [Silves1928].

*Prospaltella armata* Silvestri, 1927: 38-39. Type data: Vietnam [Indocina]: Langson. Holotype female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia armata; Viggiani & Mazzone, 1979[144]: 46. Change of combination.

*Encarsia protransvena* Viggiani, 1985[232]: 89. Type data: Vietnam: Langson [CHECK].. Type depository: UNP. Described: female. Synonymy by Evans (unpublished), 1993.

# Encarsia (Strenua) bimaculata Heraty & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia argentifolia* Perring & Bellows [HeratyPo2000], *Bemisia tabaci* (Gennadius) [HeratyPo2000, SchmidNaDe2001], *Trialeurodes vaporariorum* (Westwood) [SchmidNaDe2001].

CITATIONS: ManzarPoBe2002 [molecular phylogenetics.]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Afrotropical**: Sudan? [HeratyPo2000]. **Australasian**: Australia (Northern Territory [SchmidNaDe2001], Queensland [SchmidNaDe2001], Victoria [SchmidNaDe2001]); Papua New Guinea [SchmidNaDe2001]. **Nearctic**: Mexico? [HeratyPo2000]; United States of America (Florida [HeratyPo2000], Texas? [HeratyPo2000]). **Oriental**: India [HeratyPo2000]; Indonesia (Java [SchmidNaDe2001]); Philippines [HeratyPo2000]; Thailand [HeratyPo2000]. **Palaearctic**: Israel [HeratyPo2000].

KEYS: Schmidt et al. 2001: 373 [Australia.].

Encarsia bimaculata Heraty & Polaszek, 2000: 155-157. Type data: India: Tabarhani (culture in Gainesville, FL). Holotype female (examined), by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Illust. Encarsia bimaculata; Schmidt et al., 2001: 376-378. Illust. Subsequent description.

#### Encarsia (Strenua) brevivena Hayat

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* (Gennadius) [Hayat1989a], *Lipaleyrodes* [PolaszEvBe1992].

DISTRIBUTION: **Oriental**: India (Maharashtra [Havat1989a, Havat1989b]).

*Encarsia brevivena* Hayat, 1989a: 65-66. Type data: India: Maharashtra, Elephanta (caves off Bombay). Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 84E. Described: female. Illust.

Encarsia brevivena; Polaszek et al., 1992: 381. Described: both sexes. Subsequent description.

Encarsia brevivena; Hayat, 1998: 203-204. Described: female. Illust. Subsequent description.

## Encarsia (Strenua) capensis Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia capensis* Schmidt & Polaszek, 2007a: 2144-2145. Type data: Australia: WA, Cape Arid National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### **Encarsia (Strenua) catherinae (Dozier)**

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleuroplatus catalpa [Dozier1933a].

DISTRIBUTION: **Neotropical**: Haiti [Dozier1933a].

*Trichoporus catherinae* Dozier, 1933a: 92-93. Type data: Haiti: Damien. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 44820. Described: female.

Encarsia catherinae; De Santis, 1979a: 329. Change of combination.

Encarsia catherinae; Viggiani, 1989[306]: 211. Described: female. Subsequent description.

### Encarsia (Strenua) citri (Ishii)

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeurodes citri Riley [Ishii1938].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics (near citri).]; ManzarPoBe2002 [molecular phylogenetics (near citri).]; PolaszHa1992 [Dea].

DISTRIBUTION: Palaearctic: Japan [Ishii1938, HeratyPo2000].

*Prospaltella citri* Ishii, 1938: 29-30. Type data: Japan: Nagasaki. Syntypes, female. Type depository: NIAS. Described: female.

Encarsia strenua; Polaszek et. al., 1992: 338. Described: female and larva. Incorrect synonymy; discovered by Heraty & Polaszek, 2000.

Encarsia citri; Heraty & Polaszek, 2000: 157-158. Illust. Subsequent description.

## Encarsia (Strenua) dialeurodis Hayat

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeurodes sp.? [Hayat1989a]

DISTRIBUTION: Oriental: India (Uttar Pradesh [HayatAy1998]); Pakistan [Hayat1989a, Hayat1989b].

*Encarsia dialeurodis* Hayat, 1989a: 75-76. Type data: Pakistan: Multan. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 272E. Described: female. Illust.

Encarsia dialeurodis; Hayat, 1998: 204. Described: both sexes. Illust. Subsequent description.

## Encarsia (Strenua) japonica Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocybotus indicus* David & Subramaniam [HuangPo1998], *Bemisia tabaci* (Gennadius) [PolaszEvBe1992], *Trialeurodes vaporariorum* (Westwood) [PolaszEvBe1992].

CITATIONS: ChouLi1993; Huang1994 [Tde].

DISTRIBUTION: Oriental: China (Fujian (=Fukien) [HuangPo1998]). Palaearctic: Japan [Viggia1981173].

Encarsia japonica Viggiani, 1981[173]: 61-63. Type data: Japan: Fukuoka. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: both sexes. Illust.

Encarsia japonica; Polaszek et al., 1992: 384. Described: female. Subsequent description.

Encarsia japonica; Huang & Polaszek, 1998: 1898-1899. Described: both sexes. Illust. Subsequent description.

### Encarsia (Strenua) kalamundae Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia kalamundae* Schmidt & Polaszek, 2007a: 2176-2177. Type data: Australia: WA, Kalamunda National Park. Holotype male, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: male. Illust.

### Encarsia (Strenua) lehri Jasnosh

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [Jasnos1989], *Aleurolobus wunni* (Riberg) [Jasnos1989]. DISTRIBUTION: **Palaearctic**: Russia [Jasnos1989].

*Encarsia lehri* Jasnosh, 1989: 112-113. Type data: Russia: Vladivostok, Okeanskaya (botanical gardens). Holotype female, by original designation. Type depository: St. Petersberg: (= Leningrad) Zoological Museum, Academy of Science, Russia; type no. 808. Described: female. Illust.

## Encarsia (Strenua) longivalvula Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* Gennadius [HuangPo1998], *Dialeurodes citri* [HuangPo1998], *Dialeurodes tetrastigmae* [HuangPo1998], *Dialeuropora decempunctata* [Viggia1985232]. CITATIONS: Hayat1989a [Tn]; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Oriental: Pakistan [Viggia1985232]; Taiwan [HuangPo1998].

*Encarsia longivalvula* Viggiani, 1985[232]: 85-86. Type data: Pakistan: Peshawar. Holotype female, by original designation. Type depositories: UNP, and Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: both sexes. Illust.

Encarsia longivalvula; Hayat, 1989a: 74. Described: female. Illust. Subsequent description.

Encarsia longivalvula; Huang & Polaszek, 1998: 1907-1909. Described: female. Illust. Subsequent description.

## Encarsia (Strenua) magnivena Huang & Polaszek

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Dialeurodes citri* [HuangPo1998], *Dialeurodes tetrastigmae* [HuangPo1998].

DISTRIBUTION: Oriental: Taiwan [HuangPo1998].

*Encarsia magnivena* Huang & Polaszek, 1998: 1914-1915. Type data: Taiwan: Wufeng. Holotype male, by original designation. Type depository: Taichung: Taiwan Agricultural Research Institute, Entomology Collection, Taiwan. Described: male. Illust.

## Encarsia (Strenua) maritima Jasnosh

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus wunni [Jasnos1989].

DISTRIBUTION: Palaearctic: Russia [Jasnos1989].

*Encarsia maritima* Jasnosh, 1989: 114-116. Type data: Russia: Vladivostok, Botanical Gardens. Holotype female, by original designation. Type depository: St. Petersberg: (= Leningrad) Zoological Museum, Academy of Science, Russia. Described: female. Illust.

#### Encarsia (Strenua) maura Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (New South Wales [SchmidPo2007a]).

*Encarsia maura* Schmidt & Polaszek, 2007a: 2196-2197. Type data: Australia: NSW, Point Lookout, New England National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

#### Encarsia (Strenua) muliyali Mani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurolobus barodensis (Maskell) [Mani1940].

CITATIONS: Hayat1986; Mahmoo1955.

DISTRIBUTION: **Oriental**: Thailand [Viggia1981173].

*Encarsia muliyali* Mani, 1940: 35. Type data: India: Cuttack. Holotype female, by monotypy. Type depository: INPC; type no. PCS-23C. Described: female.

*Encarsia ochai* Viggiani, 1981[173]: 63-65. Type data: Thailand: Kanchanaburi. Holotype female, by original designation. Type depository: UNP. Described: female. Illust. Synonymy by Hayat, 1989a: 74.

Encarsia muliyali; Hayat, 1989a: 74-75. Described: female. Illust. Subsequent description.

Encarsia muliyali; Hayat, 1998: 205. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Strenua) neocala Heraty & Polaszek

ASSOCIATIONS: Host - HEMIPTERA **Aleyrodidae**: *Orchamnoplatus caledonicus* (Dumbleton) [HeratyPo2000]. DISTRIBUTION: **Australasian**: New Caledonia [HeratyPo2000].

*Encarsia neocala* Heraty & Polaszek, 2000: 158-160. Type data: New Caledonia: Noumea. Holotype female (examined), by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

### Encarsia (Strenua) norani Hayat

DISTRIBUTION: Oriental: India (Uttar Pradesh [Hayat1989a]).

*Encarsia norani* Hayat, 1989a: 69-70. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India; type no. 85E. Described: female. Illust.

Encarsia norani; Hayat, 1998: 214-215. Described: female. Illust. Subsequent description.

#### Encarsia (Strenua) oakevensis Schmidt & Naumann

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Bemisia tabaci* (Gennadius) [SchmidNaDe2001], *Trialeurodes vaporariorum* (Westwood) [SchmidNaDe2001].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidNaDe2001]).

KEYS: Schmidt et al. 2001: 373 [Australia.].

*Encarsia oakeyensis* Schmidt & Naumann, 2001: 381. Type data: Australia: Queensland, Oakey. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Strenua) olgae Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae [new].

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia olgae* Schmidt & Polaszek, 2007a: 2206-2207. Type data: Australia: WA, Beedelup National Park. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

### Encarsia (Strenua) papaceki Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Aleurocanthus [new].

DISTRIBUTION: Australasian: Australia (Queensland [SchmidPo2007a]).

*Encarsia papaceki* Schmidt & Polaszek, 2007a: 2208-2210. Type data: Australia: QLD, Mundubbera. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

#### Encarsia (Strenua) pedana Schmidt & Polaszek

ASSOCIATIONS: Associate - HEMIPTERA Aleyrodidae: Synaleurodicus sp. [new].

DISTRIBUTION: **Australasian**: Australia (New South Wales [SchmidPo2007a], Western Australia [SchmidPo2007a]).

Encarsia pedana Schmidt & Polaszek, 2007a: 2210-2212. Type data: Australia: NSW, Cobark Forest Park, Barrington Tops. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Strenua) perconfusa Evans & Abd-Rabou

DISTRIBUTION: Palaearctic: Egypt [EvansAb2005].

*Encarsia perconfusa* Evans & Abd-Rabou, 2005: 4-6. Type data: Egypt. Holotype female, by original designation. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: female. Illust.

### Encarsia (Strenua) perstrenua (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Dialeurodes citrifolii* [Silves1928], *Dialeurodes trovai* [Silves1928].

DISTRIBUTION: Oriental: Vietnam [Silves1928].

Prospaltella perstrenua Silvestri, 1927: 36-38. Type data: Vietnam [Indocina]: Langson (Tonkino). Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. Encarsia perstrenua; Viggiani & Mazzone, 1979[144]: 46. Change of combination.

### Encarsia (Strenua) praecipua Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Tasmania [SchmidPo2007a]).

*Encarsia praecipua* Schmidt & Polaszek, 2007a: 2222-2223. Type data: Australia: TSM, Pelion Hut, 3 km S Mt Oakleigh. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Strenua) primitiva Viggiani

ASSOCIATIONS: Host - HEMIPTERA Diaspididae?: Lilsaea.

DISTRIBUTION: Oriental: Pakistan [Viggia1988275].

*Encarsia primitiva* Viggiani, 1988[275]: 37-39. Type data: Pakistan: Muree. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

## Encarsia (Strenua) protransvena Viggiani

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleurocanthus* sp. [SchmidNaDe2001], *Aleurotrachelus rubi* Takahashi [HeratyPo2000], *Bemisia argentifolia*, *Bemisia tabaci* (Gennadius) [HuangPo1998, SchmidNaDe2001], *Dialeurodes* sp., *Dialeurodes citri* [HuangPo1998, PolaszAb1999], *Dialeurodes citrifolii* [HuangPo1998], *Dialeurodes kirkaldii* [Viggia1985232, HuangPo1998], *Parabemisia myricae*, *Trialeurodes abutiloneus*, *Trialeurodes packardi* (Morrill) [HuangPo1998], *Trialeurodes vaporariorum* (Westwood) [SchmidNaDe2001], *Trialeurodes variabilis*. **Diaspididae**: *Aspidiotus* sp.?, *Parlatoria ziziphi*?.

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; BoothPo1996; ManzarPoBe2002

[molecular phylogenetics.]; NguyenHa1985; SchaufEvHe1996; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Australasian**: Australia (Western Australia [SchmidNaDe2001]); Fiji [SchmidNaDe2001]; Hawaiian Islands [NguyenHa1985]. **Nearctic**: United States of America (California [PolaszEvBe1992], Florida [Viggia1985232], Georgia [HuangPo1998]). **Neotropical**: Cayman Islands; Colombia; Honduras [PolaszEvBe1992]; Puerto Rico & Vieques Island [PolaszEvBe1992]. **Oriental**: China (Guangdong (=Kwangtung) [HuangPo1998]); Taiwan [HuangPo1998]. **Palaearctic**: Egypt [PolaszAb1999]; Spain. KEYS: Schmidt et al. 2001: 373 [Australia.].

*Encarsia protransvena* Viggiani, 1985[232]: 89-90. Type data: USA: FL, Broward Co., Fort Lauderdale. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

*Encarsia strenua*; Polaszek, Evans & Bennett, 1992: 388. Described: female. Illust. Misidentification; discovered by Huang & Polaszek, 1998: 1942.

*Encarsia strenua*; Polaszek et al., 1992: 388. Illust. Misidentification; discovered by Heraty & Polaszek, 2000: 160. *Encarsia protransvena*; Schauff et al., 1996: 27. Illust. Subsequent description.

Encarsia strenua; Schauff et al., 1996: 29. Illust. Misidentification; discovered by Heraty & Polaszek, 2000: 160.

Encarsia protransvena; Huang & Polaszek, 1998: 1941. Illust. Subsequent description.

Encarsia protransvena; Polaszek, Abd-Rabou and Huang, 1999: 158-160. Illust. Subsequent description.

Encarsia protransvena; Heraty & Polaszek, 2000: 160-163. Illust. Subsequent description.

Encarsia protransvena; Schmidt et al., 2001: 383. Illust. Subsequent description.

## Encarsia (Strenua) quercicola (Howard)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleuroplatus coronatus* (Quaint.) [Peck1951], *Aleuroplatus gelatinosus* Cockerell [Howard1908a, Howard1911], *Aleyrodes gelatinosus* Cook [Howard1908a].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; Howard1908a [Dea]; Howard1911 [Hc]; ManzarPoBe2002 [molecular phylogenetics.].

DISTRIBUTION: Nearctic: United States of America (California [Howard1908a]).

Prospaltella quercicola Howard, 1908a: 282, 284. Type data: USA: CA, Los Angeles. Syntypes, female. Type depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA; type no. 12163. Described: female.

Prospaltella quercicola; Mercet, 1912a: 212-213. Described: female. Subsequent description.

Encarsia quercicola; Viggiani, 1986[249]: 73. Described: female. Illust. Change of combination.

#### Encarsia (Strenua) ramsesi Polaszek

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Ramesesseus follioti Zahradnik [PolaszAb1999].

DISTRIBUTION: Palaearctic: Egypt [PolaszAb1999].

*Encarsia ramsesi* Polaszek, 1999: 160. Type data: Egypt: New Valley, Dakhla. Holotype female, by original designation. Type depository: London: Natural History Museum, England. Described: female. Illust.

# Encarsia (Strenua) sinica Viggiani & Ren

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Dialeurodes sp. [ViggiaRe1993335].

DISTRIBUTION: **Oriental**: China (Guangdong (=Kwangtung) [ViggiaRe1993335]); Indonesia (Ceram [HuangPo1998]).

*Encarsia sinica* Viggiani & Ren, 1993[335]: 224. Type data: China: Guangdong, Zhanjiang. Holotype female, by original designation. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia sinica; Huang & Polaszek, 1998: 1947-1949. Described: female. Illust. Subsequent description.

### Encarsia (Strenua) sophia (Girault & Dodd)

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae [Abbass1975], [Hayat1989a], Acaulaleyrodes rhachipora [Hayat1989a], Aleurocybotus indicus [PolaszEvBe1992], Aleurodicus dispersus Russell [PolaszEvBe1992], Aleurolobus sp. near niloticus [Hayat1989a], Aleyrodes hibisci, Bemisia tabaci (Gennadius) [PolaszEvBe1992, Hayat1989a, Gerlin1985, SchmidNaDe2001], Dialeurodes citri [HuangPo1998], Parabemisia myricae (Kuwana) [PolaszEvBe1992], Pealius hibisci (Kotinsky) [Timber1926], Pealius longispinus Takahashi [HuangPo1998], Trialeurodes ricini [HayatAy1998], Trialeurodes sonchi? [Timber1926], Trialeurodes vaporariorum Westwood [PolaszEvBe1992, Timber1926, Gerlin1985, SchmidNaDe2001]. Aphididae: Aphis sacchari Zehntner? [Timber1926]. Coccidae: Coccids? [Shafee1973]. Psyllidae: Diaphorina citri Kuwayama? [PolaszEvBe1992].

CITATIONS: BabcocHeDe2001 [morphological and molecular phylogenetics.]; BoothPo1996; ChouLi1993; Gerlin1985 [Dea]; Hayat1986; Huang1994 [Tde]; KapadiPu1989 [Lfh]; KrishnVa1996 [Dea, Hre, Ran]; Lal1980 [Hre]; ManzarPoBe2002 [molecular phylogenetics.]; PolaszEvBe1992; PolaszHa1992 [Ila]; SchmidPo2007a [Da, Ila, Rr]; Viggia1993338 [Cco, Iec, Lhi, Rng]; ViggiaRe1993335.

DISTRIBUTION: Afrotropical: Burundi [HeratyPo2000]; C\_te d'Ivoire (=Ivory Coast) [HeratyPo2000]; Cape Verde [HayatAy1998]; Niger [HayatAy1998]; Sierra Leone [HeratyPo2000]; Somalia [Silves1931]. Australasian: Australia (Queensland [GiraulDo1915,, SchmidNaDe2001], Western Australia [SchmidNaDe2001]); French Polynesia [SchmidNaDe2001]; Hawaiian Islands [Timber1926]. Oriental: China (Sichuan (=Szechwan) [HeratyPo2000]); India [Hayat1989a]; Indonesia [HeratyPo2000]; Pakistan [Hayat1989a]; Sri Lanka [HayatAy1998]; Taiwan [HeratyPo2000]; Thailand [HeratyPo2000]. Palaearctic: Japan [Ishii1938].

KEYS: Schmidt et al. 2001: 373 [Australia.].

Coccophagus sophia Girault & Dodd, 1915[238]: 49, 56. Type data: Australia: QLD, Cairns. Syntypes, female. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. Hy.2926. Described: female.

*Prospaltella transvena* Timberlake, 1926: 312-315. Type data: USA: Hawaii, Oahu. Holotype female. Type depository: Honolulu: Bernice P. Bishop Museum, Dept. Ent. Coll., HI, USA; type no. 5690. Described: both sexes. Illust. Synonymy by Heraty & Polaszek, 2000: 163.

Prospaltella sophia; Compere, 1931: 11. Change of combination.

Prospaltella sublutea Silvestri, 1931: 20-22. Type data: Somalia: Duca [?]. Syntypes, female. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust. Synonymy by Viggiani (with Gerling & Rivnay), 1985: 90.

*Prospaltella bemisiae* Ishii, 1938: 30. Type data: Japan: Ikawa-cho, Mei-Ken. Syntypes, female. Type depository: NIAS. Described: female. Synonymy by Polaszek et al., 1992: 388-389.

*Prospaltella flava* Shafee, 1973: 254-255. Type data: India: Uttar Pradesh, Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: female. Illust. Synonymy by Hayat, 1989: 72.

*Encarsia transvena*; Viggiani (with Gerling & Rivnay), 1985[232]: 90-92. Described: both sexes. Illust. Change of combination.

Encarsia sophia; Viggiani, 1985[233]: 249. Described: female. Illust. Change of combination.

Encarsia shafeei Hayat, 1986: 163. Replacement name for flava Shafee.

Encarsia transvena; Hayat, 1989a: 71-73. Described: both sexes. Illust. Subsequent description.

Encarsia transvena; Polasek et al, 1992: 388-389. Described: female. Illust. Subsequent description.

Encarsia transvena; Huang & Polaszek, 1998. Described: both sexes. Illust. Subsequent description.

Encarsia transvena; Hayat, 1998: 205-207. Described: both sexes. Illust. Subsequent description.

Encarsia sophia; Heraty & Polaszek, 2000: 163-166. Illust. Subsequent description.

Encarsia sophia; Schmidt et al., 2001: 383. Illust. Subsequent description.

### Encarsia (Strenua) stirlingia Schmidt & Polaszek

DISTRIBUTION: Australasian: Australia (Western Australia [SchmidPo2007a]).

*Encarsia stirlingia* Schmidt & Polaszek, 2007a: 2240-2241. Type data: Australia: WA, Stirling Range National Park, Toolburup. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: both sexes. Illust.

### Encarsia (Strenua) strenua (Silvestri)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleurobus subrotundus Silvestri [Clause1934], Aleuroplatus [Clause1934], Asterochiton [Clause1934], Bemisia giffardii (Kotinsky) [Silves1928], Dialeurodes sp., Dialeurodes citri Riley & Howard [PolaszEvBe1992], Dialeurodes eugeniae Maskell [HuangPo1998], Dialeurodes kirkaldyi (Kotinsky) [PolaszEvBe1992], Parabemisia myricae, Siphonius phillyreae (Haliday) [HeratyPo2000].

CITATIONS: Clause1934 [Rre]; Hayat1989a; HuangPo1998; PolaszEvBe1992; PolaszEvBe1992 [part misid of protransvena]; SchaufEvHe1996 [misid of ]; Thomps1953; ViggiaMa1979144; ViggiaRe1993335; Wu1941.

DISTRIBUTION: **Nearctic**: United States of America (California). **Oriental**: China (Fujian (=Fukien) [HuangPo1998], Guangdong (=Kwangtung)); Hong Kong [PolaszEvBe1992]; India; Macau [Silves1928]. **Palaearctic**: Syria [HuangPo1998]; Turkey [Huang1994].

*Prospaltella strenua* Silvestri, 1927b: 34-36. Type data: China: Macao. Holotype female, by monotypy. Type depository: Portici: Istituto di Entomologia F. Silvestri, Portici, Italy. Described: female. Illust.

Encarsia strenua; Viggiani & Mazzone, 1979[144]: 46. Change of combination.

Encarsia strenua; Polaszek et al., 1992: 388. Described: female. Change of combination.

Encarsia strenua; Huang & Polaszek, 1998: 1951-1953. Described: female. Illust. Subsequent description.

Encarsia strenua; Heraty & Polaszek, 2000: 166-167. Illust. Subsequent description.

#### Encarsia (Strenua) titillata Girault

ASSOCIATIONS: Host - HEMIPTERA Diaspididae: Diaspis echinocacti Girault [Giraul1926397].

DISTRIBUTION: **Neotropical**: Cuba [Giraul1926397].

Encarsia titillata Girault, 1926[397]: 1[200]. Type data: Cuba. Syntypes, female. Type depository: Brisbane:

Queensland Museum, Queensland, Australia. Described: male.

Encarsia titillata; Viggiani, 1985[233]: 252. Described: female. Illust. Subsequent description.

#### Encarsia (Strenua) ustulata Schmidt & Naumann

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Trialeurodes vaporariorum (Westwood)

[SchmidNaDe2001].

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: **Australasian**: Australia (South Australia [SchmidNaDe2001], Western Australia [SchmidNaDe2001]).

KEYS: Schmidt et al. 2001: 373 [Australia.].

*Encarsia ustulata* Schmidt & Naumann, 2001: 383-384. Type data: Australia: South Australia, Aldinga Scrub, 50 km S of Adelaide. Holotype female, by original designation. Type depository: Canberra: Australian National Insect Collection, Division of Entomology, CSIRO, Australia. Described: female. Illust.

## Encarsia (Strenua) vanharteni Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae [Viggia1993338].

DISTRIBUTION: Afrotropical: Yemen [Viggia1993338].

*Encarsia vanharteni* Viggiani, 1993[338]: 125-127. Type data: Yemen, Sana'a. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

## Encarsia (Tremblayi) Viggiani

Encarsia (Tremblayi) Viggiani, 1989[305]: 184.

#### Encarsia (Tremblayi) tremblayi Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleurocanthus lebtademiae Cohic [Viggia1988275].

DISTRIBUTION: Afrotropical: Somalia [Viggia1988277].

*Encarsia tremblayi* Viggiani, 1988[275]: 39-41. Type data: Somalia: Badad. Holotype female, by original designation. Type depository: UNP. Described: female. Illust.

Encarsia tremblayi; Viggiani, 1989[305]: 182-184. Described: male. Illust. Subsequent description.

# Encarsia (Tricolor) Viggiani & Mazzone

Encarsia (Tricolor) Viggiani & Mazzone, 1979[144]: 47.

Encarsia (Tricolor); Hayat, 1989: 10.

### Encarsia (Tricolor) aleuroilicis Viggiani

ASSOCIATIONS: Host - HEMIPTERA Aleyrodidae: Aleuroviggianus adriannae Laccarino [Viggia1988277].

CITATIONS: Viggia1986249 [Lhi, Dim].

DISTRIBUTION: Palaearctic: Italy [Viggia1988277, Viggia1982191].

*Encarsia aleuroilicis* Viggiani, 1982[191]: 13-14. Type data: Italy: Portici (Parco Gussone). Holotype female, by original designation. Type depository: UNP. Described: female.

Encarsia aleuroilicis; Viggiani, 1988[277]: 128-130. Described: both sexes. Illust. Subsequent description.

## Encarsia (Tricolor) gautieri (Mercet)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Pealius azaliae* Baker & Moles [Jasnos1989], *Siphoninus phillyreae* (Hal.) [Viggia1988277].

CITATIONS: Jasnos 1989 [Hre, Dre].

DISTRIBUTION: Palaearctic: Italy [Viggia1988277].

Dolerisia gautieri Mercet, 1928: 511. Type data: Italy:...

Encarsia gautieri; Mercet, 1930: 79. Change of combination.

Encarsia gautieri; Viggiani, 1980[160]: ??.

Encarsia gautieri; Viggiani, 1988[277]: 145-146. Described: both sexes. Illust. Subsequent description.

#### Encarsia (Tricolor) isaaci Mani

ASSOCIATIONS: Hosts - HEMIPTERA Aleyrodidae [Hayat1989a], Aleurolobus barodensis [Hayat1989a], Neomaskellia bergii [Hayat1989a].

CITATIONS: Hayat1986 [Tc]; Mani1989 [Dea].

DISTRIBUTION: **Oriental**: India (Andhra Pradesh [Hayat1989a], Orissa [Hayat1989a], Tamil Nadu [Hayat1989a], Uttar Pradesh [Hayat1989a, Mahmoo1955]).

Encarsia isaaci Mani, 1940: 25-36. Type data: India: Cuttack (Orissa). Holotype female. Type depository: New Delhi: National Pusa Collections, Indian Agricultural Research Institute, India; type no. CS-227. Described: female.

*Encarsia isaaci*; Hayat, 1989a: 60-61. Described: female. Illust. Subsequent description. *Encarsia isaaci*; Hayat, 1998: 215-216. Described: female. Illust. Subsequent description.

### **Encarsia (Tricolor) maria (Girault)**

CITATIONS: SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Australasian: Australia (Queensland [Giraul1931435]).

Coccophagus maria Girault, 1931[435]: 3[282]. Type data: Australia: QLD: Miles. Syntypes, female. Type depository: Brisbane: Queensland Museum, Queensland, Australia; type no. T.4010. Described: female.

Coccophagus maria; Dahms, 1984: 794-795.

Encarsia maria; Viggiani, 1985[233]: 244. Described: female. Illust. Change of combination.

### Encarsia (Tricolor) shutovae Jashnosh

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae** [Jasnos1973], *Aleyrodes phyladelphi* Danzig [Jasnos1989]. DISTRIBUTION: **Palaearctic**: Russia [Jasnos1973].

*Encarsia shutovae* Jashnosh, 1973a: 582-583. Type data: CSS: Southern Kirgizia. Holotype female, by original designation. Type depository: St. Petersberg: (= Leningrad) Zoological Museum, Academy of Science, Russia. Described: both sexes. Illust.

Encarsia shutovae; Viggiani & Mazzone, 1979[144]: ??.

Encarsia shutovae; Jasnosh, 1989: 116-118. Described: both sexes. Illust. Subsequent description.

# **Encarsia (Tricolor) tricolor Foerster**

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: Aleruotuba jelineki (Frauenf.), Aleurothrixus porteri [Stuard1928], Aleyrodes brassicae Walk. [Stuard1928, Viggia196725, Howard1908a, Howard1911, ArtiguAvSa1992a, Mercet1930a], Aleyrodes lonicerae [Jasnos1989], Aleyrodes proletella [Jasnos1989], Trialeurodes vaporariorum Westwood [AvillaCo1986, ArtiguAvSa1992a, AvillaCo1986]. HYMENOPTERA **Aphelinidae**: Enarsia tricolor Forster [Willia1989, AvillaCo1986], Encarsia formosa Gahan [AvillaCo1986, ArtiguAvSa1992a,], Encarsia tricolor Foerster [AvillaCo1986, ArtiguAvSa1992a]. **Eulophidae**: Euderomphale chelidonii Erdos? [Willia1989].

CITATIONS: ArtiguAvSa1992a [Fe, Ov, Hc, Bp]; AvillaCo1986 [Dev, Lo, Pa, Hc, Hy, Syb, Bco, Po, Bc]; AvillaCo1986 [Dev, Fe, Pa, Mah, Mod, Ho, Ov, Bp]; AvillaCo1988 [Dev, Fe, Mor, Ser, Po, Bc]; DeBachRo1981 [Dea]; Gerlin1966 [Ho]; Howard1908a [Dea, Ran]; Howard1908b [Ran]; Howard1911 [Hc]; Hunter1989b [Dev, Ov]; Hunter1993b [Ser]; Jasnos1989 [Hre]; LaSallDe1982; LaSallDe1982 [Tn]; ManzarPoBe2002 [molecular phylogenetics.]; Mercet1930a [Hre]; PolaszHa1992 [Ila]; Viggia196725 [Rre]; Viggia1988278 [Hc]; Viggia1993338 [Cco, Iec, Lhi, Rng]; Willia1989 [Hc., Hy]; Willia1991 [Sed, Fe, Pa, Ser, Ov, Hc, Hy, Po].

DISTRIBUTION: Palaearctic: Italy [Viggia196725, Viggia1993338].

Encarsia tricolor Foerster, 1878: 66. Holotype male, by monotypy. Described: male.

*Prospaltella conjugata* Masi, 1909: 146. Type data: Italy: Portici.. Type depository: UNP. Described: female. Synonymy by Mercet, 1930: 193.

Encarsia tricolor; Mercet, 1912a: 166. Described: male. Subsequent description.

Prospaltella conjugata; Mercet, 1912a: 187-189. Described: both sexes. Illust. Subsequent description.

Prospaltella (Doloresia) conjugata; Mercet, 1921: 307. Subsequent description.

Prospaltella conjugata; Stuardo, 1929: 154-157.

Prospaltella coniugata; Viggiani, 1967[26]: 159. Misspelling of species name.

Encarsia tricolor; Viggiani, 1988[277]: 165-166. Described: both sexes. Illust. Subsequent description.

### Encarsia (Tristis) Hayat

Encarsia (Tristis) Hayat, 1989: 10. by monotypy.

#### Encarsia (Tristis) tristis (Zehntner)

ASSOCIATIONS: Hosts - HEMIPTERA **Aleyrodidae**: *Aleyrodes*, *Aleyrodes bergi* Sign. [Howard1908a, Howard1911], *Neomaskellia andropogonis* [Hayat1989a, Hayat1981a], *Neomaskellia bergii* [HayatAy1998].

CITATIONS: ChouChKo1996; DeBachRo1981 [No, Hc]; Hayat1986 [Tc]; Hertin1972; Howard1908a [Dea, Ran]; Howard1911 [Hc]; KrishnVa1996 [Dea, Hre]; LaSallDe1982; Mani1989 [Tn]; Risbec1951; Risbec1960; SchmidPo2007a [Da, Ila, Rr].

DISTRIBUTION: Afrotropical: Senegal [Risbec1950, HuangPo1998]. Australasian: Australia [HayatAy1998]. Oriental: Bangladesh [Hayat1989a]; India [Shafee1973] (Bihar [Hayat1989a], Karnataka [Hayat1989a], Maharashtra [Hayat1989a], Tamil Nadu [Hayat1989a], Uttar Pradesh [Hayat1989a]); Indonesia (Java [Zehntn1896, Howard1908a]); Philippines [Ashmea1904244]; Taiwan [HayatAy1998].

*Prospalta tristis* Zehntner, 1896: 11. Type data: Indonesia: Java. Unknown type status. Described: female. *Aspidiotiphagus aleyrodis* Ashmead, 1904[244]: 139. Type data: Philippines: Manilla. Syntypes, unknown. Type

depository: Washington: United States National Entomological Collection, U.S. National Museum of Natural History, DC, USA. Described: both sexes. Synonymy by Gahan, 1932: 742.

Prospaltella tristis; Schmiedeknecht, 1909: ??. Change of combination.

Prospaltella tristis; Mercet, 1912a: 215-216. Described: female. Subsequent description.

*Limacis aleurodiphaga* Risbec, 1950: 621. Type data: Senegal: [Bambey]. Lectotype female, by subsequent designation Huang & Polaszek, 1998: 1956. Type depository: Paris: Museum National d'Histoire naturelle, France. Described: female. Synonymy by Huang & Polaszek, 1998: 1956.

*Encarsia neomaskelliae* Prasad, 1955: 50. Type data: India: Bihar, Pusa. Holotype female. Type depository: IARI?. Described: both sexes. Illust. Synonymy by Hayat, 1981a: 468.

*Arescon aleurodiphaga*; Herting, 1972: 106. Described: female and larva. Incorrect synonymy; discovered by Huang & Polaszek, 1998: 1956.

*Prospaltella breviclavata* Shafee, 1973: 252. Type data: India: Aligarh. Holotype female, by original designation. Type depository: Aligarh: Aligarh Muslim University, Deptartment of Zoology, India. Described: both sexes. Synonymy by Hayat, 1981a: 468.

Encarsia tristis; Hayat, 1989a: 66-67. Described: both sexes. Illust. Subsequent description.

Encarsia tristis; Huang & Polaszek, 1998: 1956-1958. Described: both sexes. Illust. Subsequent description.

Encarsia tristis: Havat. 1998: 209-210. Described: both sexes. Illust. Subsequent description.

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## **Checklist of 336 Species**

abatei, Encarsia (Lutea) Viggiani, 1982 abundantia, Encarsia (Strenua) Chou & Su, 1996 acaudaleyrodis, Encarsia (Parvella) Hayat, 1976 accenta, Encarsia (Inaron) Schmidt & Naumann, 2001 adela, Encarsia Schmidt & Polaszek, 2007 adusta, Encarsia (Inaron) Schmidt and Naumann, 2001 aethiopica, Encarsia (Inaron) Viggiani, 1989 aferi, Encarsia (Inaron) Schmidt & Polaszek, 2007 affectata, Encarsia (Divergens) (Silvestri, 1930) africana, Encarsia (Singularis) (Hill, 1970) albiscutellum, Encarsia (Opulenta) (Girault, 1913) albiscutellum longipalpa, Encarsia (Opulenta) Hayat, 1989 alboscutellaris, Encarsia De Santis, 1979 aldrichi, Encarsia (Lahorensis) Schmidt & Polaszek, 2007 aleurochitonis, Encarsia (Lahorensis) Mercet, 1931 aleurodici, Encarsia (Noyesi) (Girault, 1916) aleuroilicis, Encarsia (Tricolor) Viggiani, 1982 aleuroplati, Encarsia (Parvella) Viggiani, 1988 aleurothrixi, Encarsia (Cubensis) Evans & Polaszek, 1998 aleurotubae, Encarsia (Aurantii) Viggiani, 1982 amabilis, Encarsia (Noyesi) (Huang & Polaszek, 1998) americana, Encarsia (Parvella) (DeBach & Rose, 1981) amicula, Encarsia (Opulenta) Viggiani & Ren, 1986 ancistrocera, Encarsia (Perflava) Huang & Polaszek, 1998 ancora, Encarsia Schmidt & Polaszek, 2007 antiopa, Encarsia (Lahorensis) (Girault, 1913) aonidiae, Encarsia Howard, 1895 arabica, Encarsia (Longifasciata) Hayat, 1989 armata, Encarsia (Strenua) (Silvestri, 1927) armillata, Encarsia (Lutea) Schmidt & Polaszek, 2007 aseta, Encarsia (Parvella) Hayat & Polaszek, 1992 ashmeadi, Encarsia (Girault, 1915) aspidioticola, Encarsia (Aurantii) (Mercet, 1929) asterobemisiae, Encarsia (Lutea) Viggiani & Mazzone, 1980 atlantica, Encarsia Polaszek & Hernández, 2003 aurantii, Encarsia (Aurantii) (Howard, 1894) aureola, Encarsia (Girault, 1913) aurithorax, Encarsia Girault, 1913 axacaliae, Encarsia Abd-Rabou & Ghari, 2007 azimi, Encarsia (Inaron) Havat, 1989 bangalorensis, Encarsia (Opulenta) Hayat, 1989 basicincta, Encarsia (Parvella) Gahan, 1927 bella, Encarsia (Gahan, 1927) bellottii, Encarsia (Opulenta) Evans & Castillo, 1998 bennetti, Encarsia (Merceti) Hayat, 1984 berlesei, Encarsia (Aurantii) (Howard, 1906) bicolor, Encarsia (Aurantii) (Timberlake, 1926) bifasciata, Encarsia Schmidt & Polaszek, 2007 bimaculata, Encarsia (Strenua) Heraty & Polaszek, 2000 boswelli, Encarsia (Novesi) (Girault, 1915) bothrocera, Encarsia (Perflava) Huang & Polaszek, 1998 brachyura, Encarsia (Aurantii) Huang & Polaszek, 1998 brahmsi, Encarsia (Girault, 1933) brevivalvula, Encarsia (Duorunga) Havat, 1989

brevivena, Encarsia (Strenua) Hayat, 1989 brimblecombei, Encarsia (Aurantii) (Girault, 1933) brittanica, Encarsia (Aurantii) (Girault, 1915) brunnea, Encarsia (Luteola) (Howard, 1908) bunyae, Encarsia (Smithi) Schmidt & Polaszek, 2007 caelata, Encarsia Schmidt & Polaszek, 2007 caelibaris, Encarsia (Mercet, 1931) californica, Encarsia (Meritoria) Polaszek, 2004 capensis, Encarsia (Strenua) Schmidt & Polaszek, 2007 cappa, Encarsia Schmidt & Polaszek, 2007 cassida, Encarsia (Longifasciata) Schmidt & Polaszek, 2007 catherinae, Encarsia (Strenua) (Dozier, 1933) ceratiphivora, Encarsia (Flavoscutellum) Evans, 1995 chaetogastra, Encarsia (Elegans) Schmidt & Polaszek, 2007 chaoi, Encarsia Huang & Polaszek, 1998 chauliodoa, Encarsia Schmidt & Polaszek, 2007 cibcensis, Encarsia (Lahorensis) Lopez-Avila, 1987 ciliata, Encarsia (Lahorensis) (Gahan, 1927) circumsculpturata, Encarsia (Aurantii) Viggiani, 1985 citrella, Encarsia (Citrella) (Howard, 1908) citri, Encarsia (Strenua) (Ishii, 1938) citrina, Encarsia (Citrina) (Craw, 1891) citrofila, Encarsia (Parvella) (Silvestri, 1928) clara, Encarsia (Dodd, 1917) clariscutellum, Encarsia (Girault, 1915) clypealis, Encarsia (Opulenta) (Silvestri, 1928) coimbatorensis, Encarsia (Aurantii) Hayat, 1989 colima, Encarsia Myartseva, 2005 collecta, Encarsia (Elegans) Chou & Su, 1996 confusa, Encarsia (Lahorensis) Hayat, 1989 coquilletti, Encarsia (Inaron) Howard, 1895 coryli, Encarsia (Inaron) Viggiani, 1981 costaricensis, Encarsia Evans & Angulo, 1996 craspedia, Encarsia Schmidt & Polaszek, 2007 cubensis, Encarsia (Cubensis) Gahan, 1931 curtifuniculata, Encarsia (Citrina) Huang & Polaszek, 1998 cybele, Encarsia (Inaron) Girault, 1913 davidi, Encarsia (Lutea) Viggiani & Mazzone, 1980 desantisi, Encarsia (Luteola) Schmidt & Polaszek, 2007 despecta, Encarsia (Elegans) Schmidt & Polaszek, 2007 dewa, Encarsia (Longifasciata) Pedata & Polaszek, 2003 dialeurodis, Encarsia (Strenua) Hayat, 1989 dialeuroporae, Encarsia (Lutea) Viggiani, 1985 diaspidicola, Encarsia (Aurantii) (Silvestri, 1909) dichroa, Encarsia (Mercet, 1930) dispersa, Encarsia (Meritoria) Polasek et al., 2004 divergens, Encarsia (Aurantii) (Silvestri, 1926) dominicana, Encarsia Evans, 2002 duorunga, Encarsia (Duorunga) Hayat, 1989 echinocera, Encarsia (Perflava) Huang & Polaszek, 1998 ectophaga, Encarsia (Silvestri, 1935) elegans, Encarsia (Elegans) Masi, 1911 elegantula, Encarsia Viggiani, 1988 estrellae, Encarsia (Inaron) Manzari & Polaszek, 2002 eugeniae, Encarsia (Risbec, 1952) eurystoma, Encarsia (Opulenta) Hayat, 1998

exornata, Encarsia (Elegans) Huang & Polaszek, 1998 explorata, Encarsia (Aurantii) (Silvestri, 1930) exserta, Encarsia Huang & Polaszek, 1998 farinaria, Encarsia (Perflava) Schmidt & Polaszek, 2007 fasciata, Encarsia (Aurantii) (Malenotti, 1917) fasciola, Encarsia (Smithi) Schmidt & Polaszek, 2007 filicornis, Encarsia (Mercet, 1912) flava, Encarsia (Citrina) (Compere, 1936) flavescens, Encarsia (Parvella) Huang & Polaszek, 1998 flavoscutellum, Encarsia (Flavoscutellum) Zehntner, 1900 flexa, Encarsia (Inquirenda) Huang & Polaszek, 1998 formosa, Encarsia (Luteola) Gahan, 1924 fujianensis, Encarsia (Opulenta) Huang & Polaszek, 1998 fuscus, Encarsia (Citrina) Compere, 1936 fuzhouensis, Encarsia (Aurantii) Huang & Polaszek, 1998 galilea, Encarsia (Inaron) Rivnay (in Rivnay & Gerling), 1987 gallardoi, Encarsia (Luteola) Marelli, 1933 gallicola, Encarsia (Risbec, 1952) gautieri, Encarsia (Tricolor) (Mercet, 1928) gerlingi, Encarsia (Parvella) Viggiani, 1989 gigas, Encarsia (Aurantii) (Tchumakova, 1957) gracilens, Encarsia (Citrina) Huang & Polaszek, 1998 grotei, Encarsia (Girault, 1931) guadeloupae, Encarsia (Luteola) Viggiani, 1988 gunturensis, Encarsia (Inaron) (Azim & Shafee, 1980) haitiensis, Encarsia (Meritoria) Dozier, 1932 hamata, Encarsia (Lutea) Huang & Polaszek, 1998 hamoni, Encarsia (Cubensis) Evans & Polaszek, 1998 hamulata, Encarsia (Perflava) Huang & Polaszek, 1998 hansoni, Encarsia (Cubensis) Evans & Polaszek, 1998 hapalia, Encarsia Schmidt & Polaszek, 2007 herndoni, Encarsia (Aurantii) (Girault, 1935) hispida, Encarsia (Meritoria) De Santis, 1948 horatii, Encarsia (Girault, 1939) inaron, Encarsia (Inaron) (Walker, 1839) indica, Encarsia (Lutea) (Shafee, 1973) inquirenda, Encarsia (Aurantii) (Silvestri, 1930) inserens, Encarsia (Aurantii) (Silvestri, 1930) insignis, Encarsia (Inaron) Schmidt & Polaszek, 2007 insulana, Encarsia (Aurantii) Hayat, 1989 intermedia, Encarsia (Aurantii) (Ferrière, 1961) interstrica, Encarsia (Cubensis) Huang & Polaszek, 1998 iris, Encarsia (Girault, 1930) isaaci, Encarsia (Tricolor) Mani, 1940 ishii, Encarsia (Opulenta) (Silvestri, 1926) ixorae, Encarsia (Aurantii) Krishnan & Vasantharaj David, 1996 japonica, Encarsia (Strenua) Viggiani, 1981 justicia, Encarsia Girault, 1913 kalamundae, Encarsia (Strenua) Schmidt & Polaszek, 2007 kemneri, Encarsia (Citrina) (Ahlberg, 1947) koebelei, Encarsia (Aurantii) (Howard, 1908) lahorensis, Encarsia (Lahorensis) (Howard, 1911) lanceolata, Encarsia (Parvella) Evans & Polaszek, 1997 lasallei, Encarsia Huang & Polaszek, 1998 latipennis, Encarsia (Citrina) Compere, 1936 lehri, Encarsia (Strenua) Jasnosh, 1989

leptosa, Encarsia Schmidt & Polaszek, 2007

leucaspidis, Encarsia (Aurantii) (Mercet, 1912)

leucippi, Encarsia (Girault, 1936)

levadicola, Encarsia Polaszek & Hernández, 2003

levo, Encarsia Hayat, 2006

liliyingae, Encarsia (Singularis) Viggiani & Ren, 1988

lipaleyrodis, Encarsia (Lahorensis) Krishnan & Vasantharaj David, 1996

longicauda, Encarsia (Opulenta) Hayat, 1989

longicornis, Encarsia (Inaron) Mercet, 1928

longifasciata, Encarsia (Longifasciata) Subba Rao, 1984

longisetae, Encarsia (Scapeata) Viggiani, 1989

longisetosa, Encarsia Schmidt & Polaszek, 2007

longispina, Encarsia Schmidt & Polaszek, 2007

longivalvula, Encarsia (Strenua) Viggiani, 1985

lopezi, Encarsia (Inaron) Blanchard, 1940

lougae, Encarsia (Risbec, 1951)

lounsburyi, Encarsia (Citrina) (Berlese & Paoli, 1916)

luoae, Encarsia (Inquirenda) Huang & Polaszek, 1998

lutea, Encarsia (Lutea) (Masi, 1909)

luteola, Encarsia (Luteola) Howard, 1895

lycopersici, Encarsia (Inaron) De Santis, 1957

macoensis, Encarsia Abd-Rabou & Ghari, 2007

macroptera, Encarsia (Lahorensis) Viggiani, 1985

maculata, Encarsia Schmidt & Polaszek, 2007

magniclava, Encarsia (Noyesi) (Girault, 1915)

magnivena, Encarsia (Strenua) Huang & Polaszek, 1998

margaritiventris, Encarsia (Inaron) (Mercet, 1931)

marginata, Encarsia Huang & Polaszek, 1998

maria, Encarsia (Tricolor) (Girault, 1931)

marinikia, Encarsia (Lutea) Jasnosh, 1989

maritima, Encarsia (Strenua) Jasnosh, 1989

marxi, Encarsia (Girault, 1936)

maura, Encarsia (Strenua) Schmidt & Polaszek, 2007

melanostoma, Encarsia Polaszek & Hernández, 2003

merceti, Encarsia (Merceti) Silvestri, 1926

merceti modesta, Encarsia (Merceti) Silvestri, 1926

meritoria, Encarsia (Luteola) Gahan, 1927

mescheryakovi, Encarsia Yasnosh, 1995

metallica, Encarsia (Risbec, 1952)

microtricha, Encarsia (Elegans) Huang & Polaszek, 1998

mineoi, Encarsia (Parvella) Viggiani, 1982

minuta, Encarsia (Aurantii) Viggiani, 1989

moffsi, Encarsia Hulden, 1986

mohyuddini, Encarsia (Duorunga) Shafee & Rivzi, 1982

mozarti, Encarsia Girault, 1932

muliyali, Encarsia (Strenua) Mani, 1940

multiciliata, Encarsia Huang & Polaszek, 1998

nanjingensis, Encarsia (Inquirenda) Huang & Polaszek, 1998

narayanani, Encarsia (Aurantii) Agarwal, 1964

narroi, Encarsia (Noyesi) Gomez & Garcia, 2000

neocala, Encarsia (Strenua) Heraty & Polaszek, 2000

nepalensis, Encarsia (Noyesi) (Polaszek & Hayat, 1992)

nigricephala, Encarsia (Cubensis) Dozier, 1937

nigrifemur, Encarsia (Opulenta) (Girault, 1914)

nigriventris, Encarsia (Girault, 1913)

niigatae, Encarsia (Aurantii) (Nakayama, 1921)

nipponica, Encarsia (Parvella) Silvestri, 1928 nitella, Encarsia Schmidt & Polaszek, 2007 noahi, Encarsia Polaszek & Hernández, 2003 noordami, Encarsia (Flavoscutellum) Polaszek, 1995 norani, Encarsia (Strenua) Hayat, 1989 notha, Encarsia (Perflava) Schmidt & Polaszek, 2007 noyesana, Encarsia (Aurantii) Huang & Polaszek, 1998 novesi, Encarsia (Novesi) (Havat, 1983) nupta, Encarsia (Aurantii) (Silvestri, 1930) oakeyensis, Encarsia (Strenua) Schmidt & Naumann, 2001 obliqua, Encarsia (Noyesi) Schmidt & Polaszek, 2007 obtusiclava, Encarsia (Aurantii) Hayat, 1989 occultans, Encarsia (Aurantii) Hayat, 1998 olgae, Encarsia (Strenua) Schmidt & Polaszek, 2007 olivina, Encarsia (Aurantii) (Masi, 1910) opulenta, Encarsia (Opulenta) (Silvestri, 1928) orangae, Encarsia Raina et al., 1996 papaceki, Encarsia (Strenua) Schmidt & Polaszek, 2007 paracitrella, Encarsia (Citrella) Evans & Polaszek, 1997 paradiaspidicola, Encarsia (Aurantii) Viggiani, 1989 parvella, Encarsia (Parvella) Silvestri, 1915 paucisetosa, Encarsia Schmidt & Polaszek, 2007 pauliani, Encarsia (Risbec, 1952) pedana, Encarsia (Strenua) Schmidt & Polaszek, 2007 peltata, Encarsia (Cockerell, 1911) perconfusa, Encarsia Evans & Abd-Rabou, 2005 perflava, Encarsia (Lahorensis) Hayat, 1989 pergandiella, Encarsia (Parvella) Howard, 1907 perniciosi, Encarsia (Aurantii) (Tower, 1913) perplexa, Encarsia (Opulenta) Huang & Polaszek, 1998 perpulchella, Encarsia (Girault, 1915) persequens, Encarsia (Inaron) Silvestri, 1927 perseus, Encarsia (Girault, 1917) perstrenua, Encarsia (Strenua) (Silvestri, 1927) peruviana, Encarsia (Aurantii) (Rust, 1913) phaea, Encarsia (Divergens) Huang & Polaszek, 1998 picithorax, Encarsia (Girault, 1915) picta, Encarsia Huang & Polaszek, 1998 pilosa, Encarsia Schmidt & Polaszek, 2007 pinella, Encarsia (Citrina) Myartseva, 2001 pithecura, Encarsia (Noyesi) (Polaszek, 1999) plana, Encarsia Viggiani & Ren, 1987 planchoniae, Encarsia Howard, 1895 plaumanni, Encarsia Viggiani, 1988 polaszeki, Encarsia Evans, 1997 porteri, Encarsia (Lahorensis) (Mercet, 1927) portoricensis, Encarsia (Aurantii) Howard, 1907 praecipua, Encarsia (Strenua) Schmidt & Polaszek, 2007 praegrandis, Encarsia Viggiani, 1985 primitiva, Encarsia (Strenua) Viggiani, 1988 prinslooi, Encarsia (Longifasciata) Pedata & Polaszek, 2003 prolata, Encarsia Schmidt & Polaszek, 2007 protransvena, Encarsia (Strenua) Viggiani, 1985 pseudoaonidiae, Encarsia (Inquirenda) (Ishii, 1938) pseudocitrella, Encarsia (Citrella) Evans & Polaszek, 1997 pseudococci, Encarsia (Lahorensis) (Agarwal, 1964)

pulliclava, Encarsia (Girault, 1917) punicae, Encarsia (Opulenta) Havat, 1998 pura, Encarsia (Aurantii) Hayat, 1989 quaintancei, Encarsia (Cubensis) Howard, 1907 quercicola, Encarsia (Strenua) (Howard, 1908) ramsesi, Encarsia (Strenua) Polaszek, 1999 rentzi, Encarsia Schmidt & Polaszek, 2007 reticulata, Encarsia (Inaron) Rivnay, 1987 sankarani, Encarsia (Aurantii) Hayat, 1989 scapeata, Encarsia (Scapeata) Rivnay, 1987 scylla, Encarsia (Inaron) Schmidt & Polaszek, 2007 seminigriclava, Encarsia (Inaron) (Girault, 1913) septentrionalis, Encarsia (Septentrionalis) Hayat, 1989 shutovae, Encarsia (Tricolor) Jashnosh, 1973 silvestrii, Encarsia (Aurantii) Viggiani & Mazzone, 1979 silvifilia, Encarsia (Girault, 1924) singularis, Encarsia (Singularis) (Silvestri, 1930) sinica, Encarsia (Strenua) Viggiani & Ren, 1993 siphonini, Encarsia (Inaron) Silvestri, 1915 smithi, Encarsia (Aurantii) (Silvestri, 1926) socratis, Encarsia (Girault, 1931) sophia, Encarsia (Strenua) (Girault & Dodd, 1915) spinosa, Encarsia Schmidt & Polaszek, 2007 stirlingia, Encarsia (Strenua) Schmidt & Polaszek, 2007 strenua, Encarsia (Strenua) (Silvestri, 1927) subhyalina, Encarsia (Opulenta) Schmidt & Polaszek, 2007 submetallica, Encarsia (Girault, 1930) sueloderi, Encarsia (Parvella) Polaszek, 1994 swifti, Encarsia (Aurantii) (Girault, 1915) synaptocera, Encarsia (Perflava) Huang & Polaszek, 1998 tachii, Encarsia (Noyesi) (Polaszek & Hayat, 1992) taciti, Encarsia (Lahorensis) (Girault, 1930) taiwanensis, Encarsia (Novesi) (Chou & Chou, 1994) tamaulipeca, Encarsia (Novesi) (Myartseva and Coronado-Blanco, 2000) telemachusi, Encarsia Evans, 2002 tennysoni, Encarsia (Aurantii) (Girault, 1931) terebrator, Encarsia (Opulenta) (Shafee, 1974) thoracaphis, Encarsia (Flavoscutellum) Ishii, 1938 thoreauini, Encarsia (Girault, 1915) tinctoriae, Encarsia (Merceti) Krishnan & Vasantharaj David, 1996 titillata, Encarsia (Strenua) Girault, 1926 totiaurea, Encarsia (Girault, 1930) toticilia, Encarsia Girault, 1936 townsendi, Encarsia (Opulenta) Howard, 1907 tremblayi, Encarsia (Tremblayi) Viggiani, 1988 tricolor, Encarsia (Tricolor) Foerster, 1878 tristis, Encarsia (Tristis) (Zehntner, 1896) trivittata, Encarsia (Aurantii) Hayat, 1989 trjapitzini, Encarsia Jasnosh, 1989 udaipuriensis, Encarsia (Lutea) (Shafee, 1973) uncinata, Encarsia (Lutea) Schmidt & Polaszek, 2007 unfasciata, Encarsia (Lahorensis) (Girault, 1915) unicitrella, Encarsia (Citrella) Evans & Polaszek, 1997 ustulata, Encarsia (Strenua) Schmidt & Naumann, 2001 vanharteni, Encarsia (Strenua) Viggiani, 1993 variegata, Encarsia (Luteola) Howard, 1908

viggianii, Encarsia (Perflava) Huang & Polaszek, 1998 whittieri, Encarsia Girault, 1915