

# Checklist of Platygastriinae and Sceliotrachelinae (Hymenoptera: Platygastriidae) of India

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## **Introduction**

Subfamilies Platygastriinae and Sceliotrachelinae (Platygastriidae: Hymenoptera) belong to the lesser known category of parasitic hymenopterans. Members of Platygastriinae attack the eggs or early larval stages of gall midges (Cecidomyiidae) and hence are an important component in agroecosystems, whereas Sceliotrachelinae are predominantly true egg parasitoids attacking the eggs of a broad range of insects including weevils, longicorn beetles, fulgorids and chrysomelids. Due to a gradual transition from true egg parasitism to parasitism of egg-like objects (Masner & Huggert, 1989), the members of Sceliotrachelinae also attack the ovoid larvae of white flies (Aleyrodidae) or the mealy bugs (Pseudococcidae).

Both Platygastriines and Sceliotrachelines are non metallic, usually black or pale brown in colour and have a body size of 0.5-2mm. More than 1400 species are reported worldwide (Buhl & Choi, 2006), Buhl (2009). Mani (1939, 1941, 1975), Mukerjee (1978, 1981 and 1992), Mani & Sharma (1982) and Usha Kumari & Narendran (2004, 2007) have dealt with the Indian fauna. Vlug (1995) and Masner & Huggert (1989) have treated the groups in detail on a global level. The Hymenoptera online database (<http://hol.osu.edu/>) and 'The Platygastroidea' ([http://osuc.biosci.ohio-state.edu/hymDB/eol\\_scelionidae.home](http://osuc.biosci.ohio-state.edu/hymDB/eol_scelionidae.home)) by N. F. Johnson are highly informative open internet resources dealing with taxonomy of the groups.

With the synonymisation of the family Scelionidae under Platygastriidae by Sharkey (2007), based on the results of a phylogenetic analysis by Murphy et al. (2007),

Platygastroidea, the third largest superfamily of parasitic hymenoptera currently holds just a single family, Platygastridae, which in turn is comprised of 5 subfamilies, viz. Telenominae, Teleasinae, Scelioninae, Platygastrinae and Sceliotrachelinae. The present checklist deals with 79 species hitherto recorded from India under 17 genera in 2 subfamilies namely Platygastrinae and Sceliotrachelinae. Available host records are also provided. This list, together with the checklists by Rajmohana (2006, 2011), present the overall diversity of the superfamily Platygastroidea in India.

**Class: Insecta**

**Order: Hymenoptera**

**Sub order: Apocrita (Parasitica)**

**Superfamily: Platygastroidea**

**Family: Platygastridae**

**Subfamily: Platygastrinae**

**Genus *Amblyaspis* Förster, 1856**

**1. *Amblyaspis dalhousianus* (Mukerjee, 1978)**

Distribution in India: Ahla: Dalhousie (Himachal Pradesh)

**Genus *Anectadius* Kieffer, 1905a**

**2. *Anectadius bengalensis* Kieffer, 1905a**

Host: gall midge on *Artemisia* sp.

Distribution in India: Bengal

**3. *Anectadius striolatus* Kieffer, 1905a**

Host: *Lasioptera textor* Kieffer

Distribution in India: Bengal.

**Genus *Ceratacis* Thomson, 1859**

**4. *Ceratacis bakrotus* (Mukerjee), 1978**

Distribution in India: Bakrota (Himachal Pradesh)

**Genus *Inostemma* Haliday, 1833**

**5. *Inostemma anamalaianum* Mukerjee, 1981**

Distribution in India: Valparai: Annamalai (Tamilnadu)

**6. *Inostemma apsyllae*, Austin, 1984**

Host: *Apsylla cistella* (Buckton) (Homoptera) on *Mangifera indica* (mango) (associated with Cecidomyiidae, predating on the psyllid)

Distribution in India: Sitapur (Uttar Pradesh)

**7. *Inostemma berijamum* Mani, 1975**

Distribution in India: Kodaikkanal (Tamilnadu)

**8. *Inostemma cooregense* Mukerjee, 1981**

Distribution in India: Nelgi: Coorg (Karnataka)

**9. *Inostemma dalhousianum* Mukerjee, 1981**

Distribution in India: Ahla: Dalhousie (Himachal Pradesh), Nagerhole (Karnataka)

**10. *Inostemma indicum* Mani, 1941**

Host: *Neolasioptera cephalandrae* Mani on *Coccinia indica*

Distribution in India: New Delhi

**11. *Inostemma nelgiense* Mukerjee, 1981**

Distribution in India: Nelgi: Coorg (Karnataka)

**12. *Inostemma oculare* Austin, 1984**

Host: *Procontarinia matteiana* Kieffer & Cecconion *Mangifera indica* (mango).

Distribution in India: Varanasi (Uttar Pradesh)

**13. *Inostemma shencottahense* Mukerjee, 1981**

Distribution in India: Shencottah gap (Kerala-Tamilnadu Border), Peechiparai: Kanyakumari (Tamilnadu)

**Genus *Isocybus* Förster, 1856**

**14. *Isocybus dhenkundensis* Mukerjee, 1978**

Distribution in India: Dhenkund (Himachal Pradesh)

**15. *Isocybus indicus* Mani, 1975**

Distribution in India: Mahabaleswar (Maharashtra)

**Genus *Isostasius* Förster, 1856**

**16. *Isostasius poroicus* Mukerjee, 1981**

Distribution in India: North Bengal

**Genus *Leptacis* Förster, 1856**

**17. *Leptacis agastmuniae* Mukerjee, 1992**

Distribution in India: Agasthyamuni: Chamoli (Uttarakhand)

**18. *Leptacis atturensis* Mukerjee, 1981**

Distribution in India: Attur, Hudukeri (Karnataka)

**19. *Leptacis bengalensis* Mukerjee, 1981**

Distribution in India: Poro North (West Bengal)

**20. *Leptacis brachycerus* Mukerjee, 1981**

Distribution in India: Appangala (Karnataka Survey)

**21. *Leptacis coorgensis* Mukerjee, 1981**

Distribution in India: Hudukeri: Coorg (Karnataka)

**22. *Leptacis coorgensis* (Mukerjee, 1981)**

Synonym: *Fidiobia coorgensis* Mukerjee, 1981

Distribution in India: Coorg (Karnataka)

**23. *Leptacis indica* Mukerjee, 1978**

Distribution in India: Pune (Maharashtra)

**24. *Leptacis keralensis* Ushakumari & Narendran, 2007**

Distribution in India: Malappuram (Kerala)

**25. *Leptacis konkanensis* Mukerjee, 1978**

Distribution in India: Mahabaleswar (Maharashtra)

**26. *Leptacis malabarensis* Ushakumari & Narendran, 2007**

Distribution in India: Wayanad (Kerala)

**27. *Leptacis maldarensis* Mukerjee, 1981**

Distribution in India: Maldare, Attur (Karnataka)

**28. *Leptacis stom* Ushakumari & Narendran, 2007**

Distribution in India: Calicut (Kerala)

**29. *Leptacis thanensis* Mukerjee, 1978**

Distribution in India: Mumbai (Maharashtra)

**30. *Leptacis thrissurensis* Ushakumari & Narendran, 2007**

Distribution in India: Thrissur (Kerala)

**31. *Leptacis yercaudensis* Mukerjee, 1981**

Distribution in India: Yercaud (Tamilnadu)

**Genus *Metanopedias* Brues, 1910**

**32. *Metanopedias vindhyensis* (Mukerjee, 1978)**

Distribution in India: Manpur (Gujarat)

**Genus *Platygaster* Latreille, 1809**

**33. *Platygaster coorgensis* (Mukerjee, 1978)**

Synonym: *Anopedias coorgensis* Mukerjee, 1978

Distribution in India: Coorg (Karnataka)

**34. *Platygaster foersteri* Gahan, 1919**

Host: gall on *Ischaemum ciliare* *Orseolia oryzae* (Wood-Mason) on *Oryza* sp.

Distribution in India: Coimbatore (Tamilnadu)

**35. *Platygaster galbus* Ushakumari, 2004**

Distribution in India: Coorg (Karnataka), Thrissur (Kerala)

**36. *Platygaster indica* Mukerjee, 1978**

Distribution in India: Naggar (Himachal Pradesh)

**37. *Platygaster inderdaadi* Vlug 1995**

Synonym: *Eritrossomerus indicus* Mukerjee, 1978

Distribution in India: Berjam Lake, Kodaikkanal Hills (Tamilnadu)

**38. *Platygaster intermedia* Ushakumari, 2004**

Distribution in India: Thrissur (Kerala)

**39. *Platygaster keralicus* Ushakumari, 2004**

Distribution in India: Thrissur (Kerala)

**40. *Platygaster malabaricus* (Mukerjee, 1978)**

Distribution in India: Pathanamthitta (Kerala)

**41. *Platygaster minima* (Mukerjee, 1978)**

Distribution in India: Idukki (Kerala)

**42. *Platygaster narendrani* Ushakumari, 2004**

Distribution in India: Thrissur (Kerala)

**43. *Platygaster nigrocoxatus* Ushakumari, 2004**

Distribution in India Aleppey (Kerala)

**44. *Platygaster oryzae*, Cameron, 1891**

Host: *Cecidomyia oryzae* in paddy

Distribution in India: Moughyr (Bihar)

**45. *Platygaster panchgani* Mani, 1975**

Distribution in India: Mahabaleswar (Maharashtra)

**46. *Platygaster ramachandrai* (Rao, 1950)**

Synonym: *Polygnotus ramachandrai* Rao, 1950

Host: Parasites from gall on *Andropogon schoenanthus*

Distribution in India: Coimbatore (Tamilnadu)

**47. *Platygaster sasii* Ushakumari, 2004**

Distribution in India: Thrissur (Kerala)

**48. *Platygaster salvadorae* Rao, 1950**

Distribution in India: Agra (Uttar Pradesh)

Host: *Thomasiniana salvadore* on *Salvadora persica*

**49. *Platygaster satara* Mani, 1975**

Distribution in India: Western Ghats (Kerala)

**50. *Platygaster tanus* Ushakumari, 2004**

Distribution in India: Malappuram (Kerala)

**51 *Platygaster tibialis* Kieffer, 1905b**

Distribution in India: Bengal

**52. *Platygaster zantanus* Ushakumari, 2004**

Distribution in India: Malappuram (Kerala)

**Genus *Proleptacis* Kieffer, 1926**

**53. *Proleptacis fici* Rao, 1950**

Host: *Diodyplosis oryzae* Rao from lea gall on *Ficus glomerata*

Distribution in India: Arga (Uttar Pradesh)

**54. *Proleptacis oryzae* Rao, 1950**

Host: *Pachydiplosis oryzae* Mani

Distribution in India: Cuttack (Orissa)

**Genus *Sacespalus* Kieffer, 1917**

**55. *Sacespalus indicus* Mani, 1975**

Distribution in India: Mahabaleswar (Maharashtra)

**Genus *Synopeas* Förster, 1856**

**56. *Synopeas aeros* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis aeros* Ushakumari & Narendran, 2007

Distribution in India: Arattupuzha: Thrissur (Kerala)

**57. *Synopeas alus* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis alus* Ushakumari & Narendran, 2007

Distribution in India: Thrissur (Kerala)

**58. *Synopeas asiaticum* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis asiaticus* Ushakumari & Narendran, 2007

Distribution in India: Thrissur (Kerala)

**59. *Synopeas atturensis* Mukerjee, 1981**

Distribution in India: Attur (Karnataka)

**60. *Synopeas benazeer* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis benazeer* Ushakumari & Narendran, 2007

Distribution in India: Cochin (Kerala)

**61. *Synopeas bengalensis* Mukerjee, 1978**

Distribution in India: Jaldhpara (West Bengal)

**62. *Synopeas chamoliana* Mukerjee, 1992**

Distribution in India: Chamoli, Pauri (Uttarakhand)

**63. *Synopeas diversum* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis diversus* Ushakumari & Narendran, 2007

Distribution in India: Munnar (Kerala)

**64. *Synopeas nepalense* Mukerjee, 1981**

Distribution in India: Kollimala: Salem, Kallar: Coonor (Tamilnadu), Ramgarh: Kumaon (Uttarakhand)

**65. *Synopeas indicus* Mani, 1975**

Distribution in India: Satara (Maharashtra)

**66. *Synopeas indopeninsularis* Mani, 1975**

Distribution in India: Mahabaleswar (Maharashtra)

**67. *Synopeas mangiferae* Austin, 1984**

Distribution in India: Lucknow (Uttar Pradesh)

**68. *Synopeas manii* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis manii* Ushakumari & Narendran, 2007

Distribution in India: Cochin (Kerala)

**69. *Synopeas mustum* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis mustus* Ushakumari & Narendran, 2007

Distribution in India: Eravikulam (Kerala)

**70. *Synopeas nuperum* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis nuperus* Ushakumari & Narendran, 2007

Distribution in India: Malappuram (Kerala)

**71. *Synopeas procon* Austin, 1984**

Host: *Procontarinia matteiana* Kieffer & Cecconion *Mangifera indica* (mango).

Distribution in India: Lucknow (Uttar Pradesh)

**72. *Synopeas scaposum* (Ushakumari & Narendran, 2007)**

Synonym: *Leptacis scaposus* Ushakumari & Narendran, 2007

Distribution in India: Malappuram (Kerala)

**73. *Synopeas tehriensis* Mukerjee, 1992**

Distribution in India: Tehri (Uttarakhand)

**74. *Synopeas temporale* Austin, 1984**

Host: *Procontarinia matteiana* Kieffer & Cecconion *Mangifera indica* (mango)

Distribution in India: Lucknow (Uttar Pradesh)

**Genus *Trichacoides* Dodd, 1914**

**75. *Trichacoides indicus* Jackson, 1968**

Host: *Procontarinia* (?) *matteiana* Kieffer & Cecconi on *Mangifera indica* (mango)

Distribution in India: Anand (Gujarat)

**Genus *Trichacis* Förster, 1856**

**76. *Trichacis khajjiara* Mani, 1975**

Distribution in India: Khajjiar (Himachal Pradesh)

**SUBFAMILY: SCELIOTRACHELINAE**

**Genus *Allotropa* Förster, 1856**

**77. *Allotropa japonica* Ashmead, 1904, in Mukerjee, 1978**

Host: *Maconellicoccus hirsutus* (Green).

Distribution in India: Hasimara (North Bengal).

**Genus *Amitus* Haldeman, 1850**

**78. *Amitus aleurolobi* Mani, 1939**

Host: *Aleurolobus barodensis* (Maskell) on *Saccharum officinarum* L.

Distribution in India: Majhautia (Bihar)

**Genus *Plutomerus* Masner and Huggert, 1989**

**79. *Plutomerus indicus* (Mukerjee, 1981)**

Synonym: *Platygastoides indicus* Mukerjee, 1981

Distribution in India: Chota-Nagpur (Jharkhand)

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