

CHECKLIST OF SCOLIIDAE (INSECTA: HYMENOPTERA: VESPOIDEA) OF INDIA

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INTRODUCTION

The family Scoliidae is a group of fossorial aculeate wasps. All species are solitary. They are commonly known as hairy wasps. Adults are often predominantly black, commonly marked with yellow, white or red. Their wings are usually dark with metallic reflections. The vestiture varies from entirely black or black mixed with white to entirely golden or reddish. Body size may vary from 5 mm to 35 mm, and rarely upto 50 mm. They exhibit a certain degree of sexual dimorphism. They are cosmopolitan in distribution but are predominantly found in tropical region, and contain about 300 species in two subfamilies: Proscoliinae and Scoliinae. The larvae are ectoparasitoids of the larvae of Coleoptera, usually Scarabaeoidea and rarely Curculionoidea.

Seventy nine species under 13 genera have been reported from India so far (Gupta and Jonathan, 2003; Gupta 2007; Girish Kumar and Kazmi, 2008; Girish Kumar, 2009a, 2009b).



An adult Scoliid wasp

Campsomeriella (Annulimeris) annulata (Fabricius). Male.

CHECKLIST

Class: Insecta

Order: Hymenoptera

Superfamily: Vespoidea

Family: Scoliidae

Subfamily: Scoliinae

I. Tribe: Campsomerini

1. Genus: *Colpacampsomeris* Betrem

1. *Colpacampsomeris indica* (Saussure)

(a). *Colpacampsomeris indica indica* (Saussure).

India (Arunachal Pradesh, Himachal Pradesh, Meghalaya, Sikkim, Uttarakhand).

Elsewhere: Bangladesh, Myanmar.

(b). *Colpacampsomeris indica deccanensis* Gupta and Jonathan.

India (Karnataka, Kerala, Maharashtra).

2. *Colpacampsomeris peterseni* Gupta and Jonathan.

India (Karnataka).

2. Genus *Tristimeris* Betrem

3. *Tristimeris javana* (Lepeletier)

(a). *Tristimeris javana albopilosa* Gupta and Jonathan.

India (Andaman & Nicobar Islands).

3. Genus *Micromeriella* Betrem

4. *Micromeriella marginella* (Klug)

(a). *Micromeriella marginella marginella* (Klug).

India (Andhra Pradesh, Bihar, Delhi, Gujarat, Jharkhand, Rajasthan, Karnataka, Kerala, Maharashtra, Orissa, Pondicherry, Tamil Nadu, Uttarakhand, West Bengal).

Elsewhere: Sri Lanka.

4. Genus *Campsomeriella* Betrem

1. Subgenus *Campsomeriella* Betrem

5. *Campsomeriella (Campsomeriella) collaris* (Fabricius)

(a). *Campsomeriella (Campsomeriella) collaris collaris* (Fabricius).

India (Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Meghalaya, Orissa, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh, West Bengal).

Elsewhere: Nepal, Sri Lanka.

(b). *Campsomeriella (Campsomeriella) collaris insularis* Gupta and Jonathan.

India (Andaman & Nicobar Islands).

6. *Campsomeriella (Campsomeriella) rajasthanensis* Gupta & Jonathan.

India (Rajasthan).

7. *Campsomeriella (Campsomeriella) rubricata* (Nurse).

India (Gujarat).

Elsewhere: Pakistan.

2. Subgenus *Annulimeris* Betrem

8. *Campsomeriella (Annulimeris) annulata* (Fabricius)

(a). *Campsomeriella (Annulimeris) annulata annulata* (Fabricius).

India (Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, West Bengal).

Elsewhere: China, Indonesia, Japan, Korea, Malaysia, Myanmar, Nepal, Taiwan.

5. Genus *Sericocampsomeris* Betrem

9. *Sericocampsomeris bella* (Bingham).

India (Assam).

Elsewhere: Myanmar.

10. *Sericocampsomeris rubromaculata* (Smith).

(a). *Sericocampsomeris rubromaculata rubromaculata* (Smith).

India (Arunachal Pradesh, Bihar, Sikkim).

Elsewhere: China, Indonesia, Malaysia, Myanmar, Vietnam.

11. *Sericocampsomeris stygia* (Illiger)

(a). *Sericocampsomeris stygia stygia* (Illiger).

India (Assam, Sikkim, Tamil Nadu, Tripura, West Bengal).

Elsewhere: Bangladesh, Bhutan, Indonesia, Malaysia, Myanmar.

12. *Sericocampsomeris flavomaculata* Gupta and Jonathan.

India (Meghalaya).

Elsewhere: Nepal.

6. Genus *Phalerimeris* Betrem

13. *Phalerimeris phalerata* (Saussure)

(a). *Phalerimeris phalerata phalerata* (Saussure).

India (Arunachal Pradesh, Assam, Himachal Pradesh, Jharkhand, Meghalaya, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, West Bengal).

Elsewhere: China, Indonesia, Malaysia, Myanmar, Nepal, Taiwan, Thailand.

(b). *Phalerimeris phalerata turneri* (Betrem).

India (Andaman & Nicobar Islands, Karnataka, Kerala, Pondicherry, Tamil Nadu).

Elsewhere: Sri Lanka.

14. *Phalerimeris madurensis* (Betrem).

India (Karnataka, Kerala, Tamil Nadu).

15. *Phalerimeris lantschneri* (Dalla- Torre).

India (Andaman & Nicobar Islands).

7. Genus *Megacampsomeris* Betrem

16. *Megacampsomeris reticulata* (Cameron).

India (Andhra Pradesh, Delhi, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan, Tamil Nadu).

17. *Megacampsomeris binghami* (Betrem)

(a). *Megacampsomeris binghami khasiensis* (Betrem).

India (Meghalaya).

18. *Megacampsomeris nigirensis* Gupta and Jonathan.

India (Tamil Nadu).

19. *Megacampsomeris shillongensis* (Betrem).

India (Manipur, Meghalaya, Sikkim, West Bengal).

Elsewhere: Myanmar, Nepal.

20. *Megacampsomeris dehraensis* (Betrem).

India (Uttarakhand).

21. *Megacampsomeris asiatica* (Saussure)

(a). *Megacampsomeris asiatica himalayana* (Betrem).

India (Himachal Pradesh, Meghalaya, Sikkim, Uttarakhand).

Elsewhere: Nepal.

(b). *Megacampsomeris asiatica deccanensis* Gupta and Jonathan.

India (Karnataka, Kerala and Tamil Nadu).

22. *Megacampsomeris grossiformis* (Betrem).

India (Meghalaya, Uttarakhand). *Elsewhere*: China.

23. *Megacampsomeris cochinensis* (Betrem).

India (Karnataka, Kerala and Tamil Nadu).

24. *Megacampsomeris montanum* Gupta and Jonathan.

India (Manipur). *Elsewhere*: Thailand.

25. *Megacampsomeris prismatica* (Smith).

India (Arunachal Pradesh, Delhi, Himachal Pradesh, Jammu & Kashmir, Manipur, Meghalaya, Nagaland, Orissa, Sikkim, Uttarakhand, West Bengal).

Elsewhere: China, Indonesia, Japan, Korea, Malaysia, Myanmar, Nepal, Philippines, Taiwan.

II. Tribe Scoliini

8. Genus *Liacos* Guerin

26. *Liacos erythrosoma* (Burmeister)

(a). *Liacos erythrosoma erythrosoma* (Burmeister).

India (Arunachal Pradesh, Assam, Kerala, Manipur, Sikkim, West Bengal).

Elsewhere: China, Indonesia, Malaysia, Myanmar, Nepal, Thailand.

(b). *Liacos erythrosoma fulvopicta* Cameron.

India (Andaman & Nicobar Islands, West Bengal).

(c). *Liacos erythrosoma aurantiaca* Micha.

India (Andaman & Nicobar Islands).

9. Genus *Carinoscolia* Betrem

27. *Carinoscolia opalina* (Smith)

(a). *Carinoscolia opalina opalina* (Smith).

India (Sikkim).

Elsewhere: Indonesia, Malaysia, Myanmar.

28. *Carinoscolia bhamoensis* (Magretti).

India (Meghalaya, Sikkim).

Elsewhere: Myanmar.

10. Genus *Microscolia* Betrem

29. *Microscolia hydrocephala* (Micha).

India (Kerala).

Elsewhere: Sri Lanka.

30. *Microscolia tyranthina* (Kirby).

India (Andaman & Nicobar Islands).

31. *Microscolia khasiana* (Betrem).

India (Meghalaya).

32. *Microscolia nicobarensis* Gupta and Jonathan.

India (Andaman & Nicobar Islands).

11. Genus *Austroscolia* Betrem

33. *Austroscolia ruficeps* (Smith)

(a). *Austroscolia ruficeps ruficeps* (Smith).

India (Karnataka, Manipur, Sikkim, West Bengal).

Elsewhere: Indonesia, Malaysia, Myanmar.

(b). *Austroscolia ruficeps cupreoviolacea* (Micha).

India (Andaman & Nicobar Islands).

34. *Austroscolia nudata* (Smith).

India (Assam, Himachal Pradesh, Karnataka, Orissa, Rajasthan, Tamil Nadu, Uttarakhand, West Bengal). *Elsewhere:* Bangladesh, Myanmar, Nepal.

12. Genus *Megascolia* Betrem

1. Subgenus *Megascolia* Betrem

35. *Megascolia (Megascolia) procer* (Illiger)

(a). *Megascolia (Megascolia) procer procer* (Illiger).

India (Arunachal Pradesh).

Elsewhere: Indonesia, Malaysia, Myanmar, Singapore, Thailand.

2. Subgenus *Regiscolia* Betrem & Bradley

36. *Megascolia (Regiscolia) fulvifrons* (Saussure).

India (Assam, Sikkim, West Bengal).

Elsewhere: Bangladesh, Myanmar, Singapore.

37. *Megascolia (Regiscolia) rubida* (Gribodo).

India (Himachal Pradesh, Jammu & Kashmir).

Elsewhere: Pakistan, Turkmenistan.

38. *Megascolia (Regiscolia) azurea* (Christ)

(a). *Megascolia (Regiscolia) azurea christiana* (Betrem & Guiglia).

India (Arunachal Pradesh, Assam, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Orissa, Sikkim, Tripura, Uttarakhand, West Bengal).

Elsewhere: Bangladesh, Myanmar, Nepal.

(b). *Megascolia (Regiscolia) azurea hindostana* (Micha).

India (Karnataka, Kerala and Tamil Nadu).

39. *Megascolia (Regiscolia) almoraensis* Gupta & Jonathan.

India (Uttarakhand).

13. Genus *Scolia* Fabricius

1. Subgenus *Discolia* Saussure

40. *Scolia (Discolia) cyanipennis* Fabricius.

India (Himachal Pradesh, Jammu & Kashmir, Sikkim, Tamil Nadu, West Bengal). *Elsewhere*: Sri Lanka.

41. *Scolia (Discolia) laeviceps* Smith.

India (Sikkim).

Elsewhere: China, Myanmar, Thailand.

42. *Scolia (Discolia) rubrosinuata* Betrem.

India (Andhra Pradesh, Gujarat, Karnataka, West Bengal).

43. *Scolia (Discolia) suratensis* Betrem.

India (Gujarat).

44. *Scolia (Discolia) coimbatorensis* Gupta and Jonathan.

India (Karnataka, Tamil Nadu).

45. *Scolia (Discolia) gilgitensis* Betrem.

India (Jammu & Kashmir).

46. *Scolia (Discolia) superciliaris* Saussure

(a). *Scolia (Discolia) superciliaris staudingeri* Betrem.

India (Assam, Meghalaya, Uttarakhand).

Elsewhere: China, Myanmar, Nepal, Taiwan, Vietnam.

47. *Scolia (Discolia) affinis* Guerin.

India (Arunachal Pradesh, Assam, Bihar, Chattisgarh, Delhi, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Orissa, Pondicherry, Sikkim, Tamil Nadu, Tripura, Uttarakhand, Uttar Pradesh, West Bengal).

Elsewhere: Bangladesh, Myanmar, Nepal, Pakistan.

48. *Scolia (Discolia) sinensis* Saussure.

India (Jammu & Kashmir).

Elsewhere: China, Korea, Pakistan, Tadjikistan.

49. *Scolia (Discolia) felderi* Betrem.

- India (Assam, Karnataka, Kerala, Meghalaya, Nagaland, Sikkim).
Elsewhere: Myanmar.
- 50. *Scolia (Discolia) rugifrons* Betrem.**
India (Meghalaya, Sikkim).
Elsewhere: Myanmar.
- 51. *Scolia (Discolia) carmichaeli* Betrem.**
India (Arunachal Pradesh, Sikkim, West Bengal).
- 52. *Scolia (Discolia) elizabethae* Bingham.**
India (Meghalaya, Sikkim, West Bengal).
Elsewhere: Myanmar.
- 53. *Scolia (Discolia) vollenhoveni* Saussure**
(a). *Scolia (Discolia) vollenhoveni vollenhoveni* Saussure.
India (West Bengal).
Elsewhere: Indonesia, Malaysia, Malakka.
- 54. *Scolia (Discolia) chumponi* Betrem**
(a). *Scolia (Discolia) chumponi wickwari* Krombein.
India (Andaman & Nicobar Islands, Karnataka).
Elsewhere: Sri Lanka.
- 55. *Scolia (Discolia) clypeata* Sickmann**
(a). *Scolia (Discolia) clypeata rufohirta* Betrem.
India (Manipur, Uttarakhand).
Elsewhere: Nepal.
- 56. *Scolia (Discolia) kamengensis* Gupta and Jonathan.**
India (Arunachal Pradesh).
- 57. *Scolia (Discolia) formosicola* Betrem**
(a). *Scolia (Discolia) formosicola malaisei* Gupta and Jonathan.
India (Meghalaya, Uttarakhand).
Elsewhere: Myanmar, Thailand.
- 58. *Scolia (Discolia) lebongensis* Betrem.**

- India (West Bengal).
Elsewhere: Malakka.
- 59. *Scolia (Discolia) kangraensis* Betrem.**
India (Himachal Pradesh, Karnataka, Uttarakhand).
- 60. *Scolia (Discolia) bilunata* Saussure.**
India (Delhi, Jharkhand, Karnataka, Maharashtra, Manipur, Orissa, Punjab, Uttarakhand, Uttar Pradesh, Tamil Nadu).
Elsewhere: Nepal, Sri Lanka.
- 61. *Scolia (Discolia) trivandrumensis* Betrem.** India (Kerala). *Elsewhere*: Sri Lanka.
- 62. *Scolia (Discolia) cruenta* Klug.** India (Bihar, Delhi, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Orissa, Punjab, Tamil Nadu, Uttarakhand, Uttar Pradesh, West Bengal).
- 63. *Scolia (Discolia) stizus* Saussure.**
India (Karnataka, Tamil Nadu).
- 64. *Scolia (Discolia) fasciatopunctata* Guerin**
(a). *Scolia (Discolia) fasciatopunctata fasciatopunctata* Guerin.
India (Karnataka, Tamil Nadu).
Elsewhere: Sri Lanka.
(b). *Scolia (Discolia) fasciatopunctata dunensis* Betrem.
India (Delhi, Himachal Pradesh, Orissa, Uttarakhand, Uttar Pradesh, West Bengal).
- 65. *Scolia (Discolia) quadripustulata* Fabricius.**
India (Karnataka, Kerala, Meghalaya, Sikkim, Tamil Nadu, Uttarakhand, West Bengal).
Elsewhere: Sri Lanka.
- 66. *Scolia (Discolia) fichteli* Betrem.**
India (Andhra Pradesh, Arunachal Pradesh, Bihar, Delhi, Meghalaya, Pondicherry, Punjab, West Bengal).

67. *Scolia (Discolia) binotata* Fabricius

(a). *Scolia (Discolia) binotata binotata* Fabricius.

India (Andhra Pradesh, Arunachal Pradesh, Delhi, Karnataka, Kerala, Manipur, Rajasthan, Sikkim, Tamil Nadu, Uttarakhand, West Bengal).

Elsewhere: Sri Lanka.

68. *Scolia (Discolia) wagneri* Betrem.

India (Himachal Pradesh, Karnataka, Sikkim, Uttarakhand, West Bengal).

69. *Scolia (Discolia) nobilis* Saussure.

India (Sikkim, West Bengal).

70. *Scolia (Discolia) dehraensis* Betrem.

India (Himachal Pradesh, Uttarakhand).

71. *Scolia (Discolia) sikkimensis* Bingham.

India (Meghalaya, Sikkim, West Bengal).

Elsewhere: Bhutan, Nepal.

72. *Scolia (Discolia) watanabei* (Matsumura)

(a). *Scolia (Discolia) watanabei kempi* Betrem.

India (Assam). *Elsewhere:* Myanmar.

73. *Scolia (Discolia) venusta* Smith.

India (Himachal Pradesh, Sikkim, Uttarakhand, West Bengal).

Elsewhere: Myanmar, Nepal.

74. *Scolia (Discolia) pseudosinensis* Betrem.

India (Karnataka, Kerala, Tamil Nadu).

75. *Scolia (Discolia) desidiosa* Bingham.

India (Arunachal Pradesh, Assam, Sikkim, Uttarakhand, West Bengal).

Elsewhere: Myanmar, Taiwan.

76. *Scolia (Discolia) picteti* Saussure.

India (Karnataka, Kerala, Orissa, Tamil Nadu).

Elsewhere: Sri Lanka.

77. *Scolia (Discolia) mixta* (Fabricius).

India (Karnataka, Gujarat, Tamil Nadu).

78. *Scolia (Discolia) pila* Nurse.

India (Gujarat, Rajasthan).

Elsewhere: Pakistan.

79. *Scolia (Discolia) vivida* Smith.

India (Gujarat, Tamil Nadu).

REFERENCES

- Girish Kumar, P. 2009a.** Taxonomic notes on hairy wasps (Hymenoptera: Scoliidae) of Andhra Pradesh, India. *Rec. Zool. Surv. India.* **109** (1): 97-103.
- Girish Kumar, P. 2009b.** New record of *Megascolia (Regiscolia) azurea Christiana* (Betrem & Guiglia) (Hymenoptera: Scoliidae) from Mizoram, Orissa and Sikkim, India. *Rec. Zool. Surv. India.* **109** (1): 105- 107.
- Girish Kumar, P. and Kazmi, S. I. 2008.** New record of *Megacampsomeris prismatica* (Smith) (Hymenoptera: Scoliidae) from Delhi and Nagaland, India. *Rec. Zool. Surv. India.* **108** (1): 101- 103.
- Gupta, S.K. 2007.** Insecta: Hymenoptera: Aculeata. *In* Faunal diversity of Western Doon Shiwaliks. *Zool. Surv. India:* 35- 39. Special Publication.
- Gupta, S. K. and Jonathan, J. K. 2003.** *Fauna of India and the adjacent countries*, Hymenoptera: Scoliidae. 1- 277. (Published by the Director, Zool. Surv. India, Kolkata).

