

STUDIES ON INDIAN ICHNEUMONIDÆ  
(HYMENOPTERA)

Subfamily: GELINÆ

Part III. Tribe MESOSTENINI

BY E. S. NARAYANAN, M.A., PH.D. (LOND.), D.I.C.,  
F.R.E.S., F.E.S.I., F.A.Sc., F.N.I.

AND

KUNDAN LAL, M.Sc. (HONS.), PH.D.

(Division of Entomology, Indian Agricultural Research Institute, New Delhi-12)

Received July 25, 1961

CONTENTS

	PAGE
THE TRIBE MESOSTENINI—	
The Genus <i>Chlorocryptus</i> Cameron .. .. .	257
The Genus <i>Goryphus</i> Holmgren .. .. .	258
The Genus <i>Mesostenus</i> Gravenhorst .. .. .	260
The Genus <i>Friona</i> Cameron .. .. .	263

**CHLOROCRYPTUS** Cameron

*Chlorocryptus* Cameron, *Mem. Proc. Manchester, Lit. Philos. Soc.*, **47**  
(14): 34, (1903), (Type of genus: *C. metallicus* Cameron).  
Schmiedeknecht, *Genera Insect.*, fas. **75**: 50, (1908).

**coeruleus** Cameron

*Chlorocryptus coeruleus* Cameron, *Mem. Proc. Manchester Lit. Philos. Soc.*, **47** (14): 36, (1903).

♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. **75**: 51, (1908).

<sup>1</sup> Asia: Khasia Hills

**metallicus** Cameron

*Chlorocryptus metallicus* Cameron, *Mem. Proc. Manchester Lit. Philos. Soc.*, **47** (14): 35, (1903).

- ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 51, (1908). <sup>1</sup> Asia: Khasia Hills.

**reticulatus** Cameron

- Chlorocryptus reticulatus* Cameron, *Tijdschr. ent.*, 50: 84, (1907).<sup>1</sup> <sup>1</sup> Sikkim.

**GORYPHUS** Holmgren

*Goryphus* Holmgren, *Eugenies Resa. Ins.*, p. 398, (1868); (Type of genus: *G. basilaris* Holm.). Roman, *Zoologiska Studien*, p. 71, (1907), Schmiedeknecht, *Genera Insect.*, fas. 75: 42, (1908).

\**Melcha* Cameron, *Ann. Mag. Nat. Hist.*, 9: 153, (1902), Schmiedeknecht, *Genera Insect.*, fas. 75: 51, (1908). Dutt, *Mem. Dep. Agric. India, Ent.*, 8(2): 22, (1923).

**annulipes** (Cameron) n. comb.

- Melcha annulipes* Cameron, *Spolia zeylan.*, 3: 107, (1903). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 52, (1908). <sup>1</sup> Ceylon: Peradeniya.

**cinctipes** (Cameron) n. comb.

- Melcha cinctipes* Cameron, *Spolia zeylan.*, 3: 107, (1903). ♂.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 52, (1908). <sup>1</sup> Ceylon: Peradeniya.

**erythropus** (Cameron) n. comb.

- Melcha erythropus* Cameron, *Spolia zeylan.*, 3: 109, (1903). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 52, (1908). <sup>1</sup> Ceylon.

**maculiceps** (Cameron)

- Melcha maculiceps* Cameron, *Spolia zelan.*, 3: 110, (1905). ♀.<sup>1</sup> Schmiedeknecht, *Genera* <sup>1</sup> Ceylon: Peradeniya.

\* In most of the species from 1912 onward *Melcha* Cam. has been shown as synonym of *Goryphus* Holmgren.

*Insect.*, fas. 75: 52, (1908). Dutt, *Mem. Dep. Agric. India., Ent.*, 8 (2): 23, (1923).<sup>2</sup>

<sup>2</sup> Bihar: Chapra, Pusa; Bengal: Dacca.

*Goryphus maculiceps*, Morley, *Rec. Indian Mus.*, 8: 327, (1912-22). ♀.<sup>3</sup>

<sup>3</sup> Assam: Sadiya

**nursei** (Cameron)

*Melcha nursei* Cameron, *J. Bombay nat. Hist. Soc.*, 17 (3): 593, (1907).<sup>1</sup> Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 23, (1923).<sup>2</sup>

<sup>1</sup> Deesa.

*Goryphus (Melcha) nursei* Cherian and Kylasam, *J. Bombay nat. Hist. Soc.*, 46 (4): 658-67, (1947).<sup>3</sup>

<sup>2</sup> Bihar: Chapra, Pusa; United Provinces: Cawnpur; Bombay: Poona; Madras: Coimbatore.

<sup>3</sup> Coimbatore

**ornatipennis** (Cameron) n. comb.

*Melcha ornatipennis* Cameron, *Ann. Mag. Nat. Hist.*, 7: 179, (1907). Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 23, (1923).<sup>1</sup> Ahmad and Mathur, *Indian J. Ent.*, 7 (1 and 2): 21-35, (1945). Rao, *Indian For. Rec.*, New Ser., 8 (8): 213, (1952).<sup>2</sup>

<sup>1</sup> Bihar: Chapra, Pusa, Baghowine, Laheria Sarai.

<sup>2</sup> Lower Burma; Pusa; Delhi; Karnal & Agra.

**reticulata** (Cameron) n. comb.

*Melcha reticulata* Cameron, *Spolia zeylan.*, 3: 108, (1905). ♂.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 52, (1908).

<sup>1</sup> Ceylon: Kandy.

**serendinus** Fernando

*Goryphus serendinus* Fernando, *Ann. Mag. Nat. Hist.*, 9 (12): 878, (1957).<sup>1</sup>

<sup>1</sup> Ceylon.

**varibalteata** (Cameron) n. comb.

*Melcha varibalteata* Cameron, *Spolia zeylan.*, 3: 107, (1905). ♂.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 52, (1908).

<sup>1</sup> Ceylon: Kandy.

## MESOSTENUS Gravenhorst

- Mesostenus* Gravenhorst, *Ichn. Eur.*, **2**: 750, (1829),  
(Type of genus: *Mesostenus transfuga* Grav.).  
Morely, *Ichn. Brit.*, **2**: 259, (1906). Schmiedeknecht, *Genera Insect.*, fas. **75**: 52, (1908).  
Townes, *Mem. Amer. Ent. Soc.*, **11**(1): 284,  
(1944). Muesebeck, Krombein, Townes and  
others, *U.S. Dep. Agric. Monograph*, **2**: 264,  
(1951).
- Banycerus* Gravenhorst, *Ichn. Eur.*, **2**: 777, (1829).  
Schmiedeknecht, *Genera Insect.*, fas. **75**: 52,  
(1908).
- Stenaræus* Thomson, *Opusc. ent.*, fas. **21**: 2378-  
2380, (1896). Schmiedeknecht, *Genera Insect.*,  
fas. **75**: 52, (1908). Townes, *Mem. Amer.*  
*Ent. Soc.*, **11**(1): 284, (1944). Muesebeck,  
Krombein, Townes and others, *U.S. Dep. Agric.*  
*Monograph*, **2**: 264, (1951).
- Ancaria* Cameron, *Ann. Mag. Nat. Hist.*, **9**:  
204, (1902). Schmiedeknecht, *Genera Insect.*,  
fas. **75**: 52, (1908).
- Gotra* Cameron, *Ann. Mag. Nat. Hist.*, **9**: 206,  
(1902). Schmiedeknecht, *Genera Insect.*, fas.  
**75**: 52, (1908).
- Umlima* Cameron, *Ann. Mag. Nat. Hist.*, **9**: 208,  
(1902). Schmiedeknecht, *Genera Insect.*, fas.  
**75**: 52, (1908).
- Casula* Cameron, *Mem. Roy. Asiat. Soc.*, **44**: 145,  
(1905). Schmiedeknecht, *Genera Insect.*, fas.  
**75**: 52, (1908).
- Allophatus* Cameron, *Rec. Albany Mus.*, **1**(4):  
233, (1905). Schmiedeknecht, *Genera Insect.*,  
fas. **75**: 52, (1908).
- Derocentrus* Cushman, *Ent. Soc. Wash. Proc.*, **21**:  
113, (1919). Muesebeck, Krombein, Townes  
and others, *U.S. Dep. Agric. Monograph*, **2**:  
264, (1951).

**brahminus** Cameron

*Mesostenus brahminus* Cameron *Trans. Ent. Soc. Lond.*, p. 103, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 53, (1908).

<sup>1</sup> Asia: Khasia Hills.

**caligatus** Cameron

*Mesostenus caligatus* Cameron, *Trans. Ent. Soc. Lond.*, p. 116, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 53, (1908).

<sup>1</sup> Asia: Khasia Hills.

**carinifrons** (Cameron)

*Gotra carinifrons* Cameron, *Mem. Proc. Lit. Philos. Soc. Manchester*, 47: (14): 10, (1903). ♀.

**clarinervis** Cameron

*Mesostenus clarinervis* Cameron, *Trans. Ent. Soc. Lond.*, p. 115, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 53, (1908).

<sup>1</sup> Asia: Khasia Hills.

**flexilis** (Cameron) n. comb.

*Umlima flexilis* Cameron, *Trans. Ent. Soc. Lond.*, p. 107 (1904). ♂.<sup>1</sup>

<sup>1</sup> Assam.

**fulvipes** (Cameron) n. comb.

*Gotra fulvipes* Cameron, *Trans. Ent. Soc. Lond.*, p. 104, (1904). ♀.<sup>1</sup>

<sup>1</sup> Assam.

**fuscinervis** (Cameron)

*Mesostenus (Ancaria) fuscinervis* Cameron, *Ann. Mag. Nat. Hist.*, 9: 205, (1902). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, 75: 54, (1908).

<sup>1</sup> Asia: Khasia Hills.

**geniculatus** Brulle

*Mesostenus geniculatus* Brulle, *Hist. Nat. Inst. Hymen.*, 4: 225, (1846). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 54, (1908).

<sup>1</sup> India.

**hapaliæ** Rao

*Mesostenus hapaliæ* Rao, *Indian For. Rec.*, New Ser., 8 (8): 214, (1952).<sup>1</sup>

<sup>1</sup> Begur (Wynaad-Madras)

**himalayensis** Cameron

*Mesostenus himalayensis* Cameron, *Mem. Proc. Lit. Philos. Soc. Manchester*, **41** (4): 18, (1897).<sup>1</sup>

<sup>1</sup> India: Himalayas.

**interceptus** Cameron

*Mesostenus interceptus* Cameron, *Tijdschr. ent.*, **50**: 85, (1907).<sup>1</sup>

<sup>1</sup> Sikkim.

**longicornis** (Cameron)

*Mesostenus* (*Gotra*) *longicornis* Cameron, *Ann. Mag. Nat. Hist.*, **9**: 206, (1902). ♂.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. **75**: 55, (1908).

<sup>1</sup> Asia: Khasia Hills.

**maculiceps** Cameron

*Mesostenus maculiceps* Cameron, *Trans. Ent. Soc. Lond.*, p. 119, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. **75**: 55, (1908).

<sup>1</sup> Asia: Khasia Hills.

**marginatus** Brulle

*Mesostenus marginatus* Brulle, *Hist. Nat. Inst. Hymen.*, **4**: 224, (1846). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. **75**: 55, (1908).

<sup>1</sup> Asia.

**missippus** Cameron

*Mesostenus missippus* Cameron, *Trans. Ent. Soc. Lond.*, p. 114, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, **75**: 55, (1908).

<sup>1</sup> Asia: Khasia Hills.

**ochropus** Brulle

*Mesostenus ochropus* Brulle, *Hist. Nat. Inst. Hymen.*, **4**: 232, (1846). ♀.<sup>1</sup>

<sup>1</sup> India.

**penetrans** Cameron

*Mesostenus* (= *Umlima*) *penetrans* Cameron, *Ann. Mag. Nat. Hist.*, **9**: 203, (1902). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. **75**: 56, (1908).

<sup>1</sup> Asia: Khasia Hills.

**pugnatus** Cameron

*Mesostenus pugnatus* Cameron, *Tijdschr. ent.*, **50**: 86, (1907).<sup>1</sup>

<sup>1</sup> Sikkim.

**respondens** Cameron

*Mesostenus respondens* Cameron, *Trans. Ent. Soc., Lond.*, p. 112, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect*, fas. 75: 56, (1908). <sup>1</sup> Asia: Khasia Hills.

**reticulatus** Cameron

*Mesostenus reticulatus* Cameron, *Trans. Ent. Soc. Lond.*, p. 116, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect*, fas. 75: 56, (1908). <sup>1</sup> Asia: Khasia Hills.

**versatilis** Cameron

*Mesostenus versatilis* Cameron, *Trans. Ent. Soc., Lond.*, p. 118, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 57, (1908). <sup>1</sup> Asia: Khasia Hills.

**wynaadensis** Rao

*Mesostenus wynaadensis* Rao, *Ind. For. Rec.*, New Ser., 8 (8): 216, (1952).<sup>1</sup> <sup>1</sup> Wynaad (Madras).

**FRIONA** Cameron

*Friona* Cameron, *Mem. Roy. Asiat. Soc.*, p. 61, (1901); (Type of genus: *F. striolata* Cameron). Schmiedeknecht, *Genera Insect.*, fas. 75: 58, (1908). Dutt, *Mem. Dep. Agric. India, Ent.*, 8 (2): 23, (1923).

**bituberculata** Cameron

*Friona bituberculata* Cameron, *Spolia Zeylan.*, 3: 111, (1905).<sup>1</sup> Schmiedeknecht, *Genera Insect.*, fas. 75: 58 (1908). <sup>1</sup> Kandy.

**curvicarinata** Cameron

*Friona curvicarinata* Cameron, *Trans. Ent. Soc. Lond.*, p. 102, (1904). ♂.<sup>1</sup> Schmiedeknecht, *Genera Insect*, fas. 75: 58, (1908). <sup>1</sup> Assam.

*Friona curvicarinata* var. *rufescens* Morley, *Rec. Ind. Mus.*, 8: 327, (1912-22).<sup>2</sup> <sup>2</sup> Assam: Rotung.

**didymata** Morley

*Friona didymata* Morley, *Rec. Ind. Mus.*, **8**: 328,  
(1912-22). ♂. ♀.<sup>1</sup>

<sup>1</sup> U.P.: Dehra  
Dun; Assam:  
Dibrugarh;  
Bihar: Mon-  
ghyr; Lower  
Burmah: Mer-  
gui; Calcutta;  
Trivandrum.

**frontella** Cameron

*Friona frontella* Cameron, *Trans. Ent. Soc. Lond.*,  
p. 108, (1904). ♀.<sup>1</sup> Schmiedeknecht, *Genera*  
*Insect*, fas. **75**: 58, (1908).

<sup>1</sup> Assam.

**lineatipes** Cameron

*Friona lineatipes* Cameron, *Ann. Nat. Hist.*, **20**:  
24, (1907).<sup>1</sup>

<sup>1</sup> Darjeeling.

**octobalteata** Cameron

*Friona octobalteata* Cameron, *J. Bombay nat.*  
*Hist. Soc.*, **17**: 594.<sup>1</sup> Dutt, *Mem. Dep. Agric.*  
*India, Ent.*, **8** (2): 23, (1923).<sup>2</sup>

<sup>1</sup> Deesa.

<sup>2</sup> Bihar: Chapra,  
Pusa.

**rufipes** Cameron

*Friona rufipes* Cameron, *Spolia Zeylan.*, **3**: 110,  
(1905).<sup>1</sup> Dutt, *Mem. Dep. Agric. India, Ent.*,  
**8** (2): 23, (1923).<sup>2</sup>

<sup>1</sup> Ceylon.

<sup>2</sup> Bengal: Buxa-  
duara.

## ACKNOWLEDGEMENT

Taxonomic work on this important family Ichneumonidæ has been made possible under a generous grant sanctioned by the Indian Council of Agricultural Research. We are indebted to Professor Townes, author of *A Catalogue and Reclassification of Nearctic Ichneumonidæ* for his valuable suggestions and comments. We wish to thank Dr. B. P. Pal, Director, Indian Agricultural Research Institute, for the keen interest he has taken in this piece of work.