

S. No 10 A.1 to 10 A.4 proofs: Database screenshots



Indian Fauna of Pteromalidae

Pteromalidae (Hymenoptera: Chalcidoidea)

Home About Morphology Factsheets Checklist Credits References / Links Contact Us

The family Pteromalidae is interestingly speciose with diverse forms. 'Pteromalini' is the second earliest available group name in Chalcidoidea, proposed by Dalman in 1820 (Bouček, 1988). Recent Indian check list includes 213 species under 93 genera (Sureshan, 2012) updated to 333 species under 121 genera (Gupta, 2016). An account of world Pteromalidae fauna is given in *Universal Chalcidoidea Database*.

Majority of the species are egg, larval or pupal parasitoids attacking many orders across Insecta. Larvae of some species develop as predators on eggs of coccids or of spiders (Arachnida). Some species are phytophagous, developing in seeds or as inquilines in galls caused by other insects. They can be categorized into many groups based on biology: ectoparasitoids and endoparasitoids, koinobionts and idiobionts, primary or secondary parasitoids, solitary or gregarious species.



Copyright © 2013, ICAR National Bureau of Agricultural Insect Resources. All Rights Reserved.
Total visitors: 00 00 00 00



Indian Fauna of Pteromalidae

Pteromalidae (Hymenoptera: Chalcidoidea)

Home About Morphology Factsheets Checklist Credits References / Links Contact Us

This work was done under the Network Project on Insect Bionomics funded by the Indian Council of Agricultural Research, New Delhi. The specimens are housed at NBAIR, Bangalore.

Sincere thanks to Director, NBAIR; Dr V.V. Ramamurthy, Ex. National Co-ordinator of the Network Project, New Delhi and Dr J. Poonani, Principal Scientist NCRB, Trichy, Tamil Nadu for their support, guidance and encouragement.

First author (Dr Ankita Gupta) is thankful to Dr P.M. Sureshan, Officer-in-Charge, ZSI, Calicut for guidance and for clarification of doubts.

Identification, Taxonomic studies, Imaging & Compilation by:
Dr. Ankita Gupta, Scientist NBAIR. For any suggestions / corrections / errors / use of content please contact ankitagupta.nbai@gmail.com.

Collection & Curation by:
V. Naveen (till July 2015)
Umeshkumar I. Sanjeev
A. Ramesh Kumar

Website designed by:
Malathi Chitrala, SRF, NPID project, NBAIR, Bangalore

Citation:
Ankita Gupta. 2013. Indian fauna of Pteromalidae. World Wide Web electronic publication. NPID Project, NBAIR (ICAR), India. <https://databases.nbai.res.in/Pteromalidae/index.php>

Database last updated: February 2018.

Copyright © 2013, ICAR National Bureau of Agricultural Insect Resources. All Rights Reserved.
Disclaimer: Total visitors: 00 00 00 00

Indian Genera of Chalcidoidea

HOME ABOUT MORPHOLOGY FACTSHEETS CHECKLIST CREDITS CONTACT



The present scientific name for the chalcidoid wasps is derived from *Chalcis Fabricius* and the group name was first formally established by Latreille (1817). Walker (1834) was the first to call it family Chalcidoidea in the present sense (Bouček, 1988).

The family currently includes 67 genera and 1464 species world wide. The Indian fauna consists of 220 species under 30 genera (Noyes, 2016 *Universal Chalcidoidea Database*).

The species of Chalcidoidea are relatively easily recognizable by the enlarged hind femora bearing a variety of teeth on the ventral edge, combined with the strong punctation of the mesonota and a sharp carina bordering the gena posteriorly. The family Chalcidoidea comprises medium to large wasps ranging from 2.5 - 9.0 mm in length.

Copyright © 2018, ICAR National Bureau of Agricultural Insect Resources. All Rights Reserved.
Last updated: April 2017
Total visitors: 0 0 0 0

Indian Genera of Chalcidoidea

HOME ABOUT MORPHOLOGY FACTSHEETS CHECKLIST CREDITS CONTACT

Credits

This work was done under the Network Project on Insect Bionomics funded by the Indian Council of Agricultural Research, New Delhi. Thanks are due to Dr. Chandrasekhar P. Bhat, Director ICAR-NBAIR & National Co-ordinator of the Network Project for her support and encouragement.

The specimens are housed at the following repositories:

- Department of Entomology, Annamalai University, Chidambaram, Tamil Nadu.
- ICAR National Bureau of Agricultural Insect Resources, Bangalore.
- University of Agricultural Sciences, Bangalore.

Collection & Identification by:
Dr. S. Manickavasagam, Professor, Department of Entomology, Annamalai University, Chidambaram, Tamil Nadu
Govindprakash J., Annamalai University, Chidambaram, Tamil Nadu

Collection, Factsheet preparation, Imaging & Compilation by:
Dr. Ankita Gupta, Scientist, ICAR-National Bureau of Agricultural Insect Resources, Bangalore.

Website designed by:
Malathi Chitrala, SRF, NPID project

Citation:
Ankita Gupta, S. Manickavasagam, Govindprakash, J. & Malathi Chitrala 2016. Indian Genera of Chalcidoidea. World Wide Web electronic publication. NPID Project, NBAIR (ICAR), India. <https://databases.nbai.res.in/Chalcidoidea/index.php>

Copyright © 2018, ICAR National Bureau of Agricultural Insect Resources. All Rights Reserved.
Last updated: April 2017
Total visitors: 0 0 0 0



Vespidae of India
Vespidae (Hymenoptera: Vespidae)

Home About Morphology Factsheets Checklist References Credits Contact

Editors / Authors

Dr Ankita Gupta

Senior Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.
<http://www.nbai.res.in/index.php/node/102>

Mr. Sandesh M Gavas

Ph.D. Jain (Deemed-to-be University), Bengaluru.

• This database is prepared majorly based on the collections housed at the ICAR- National Bureau of Agricultural Insect Resources and includes Ph.D work done by Mr. Sandesh M Gavas, Jain (Deemed-to-be University) under the guidance of Dr. Ankita Gupta at ICAR- NBAIR.

Acknowledgements

1. We are grateful to Dr James M. Carpenter for all the prompt help, guidance and sharing his expertise on vespids.
2. We thank Dr Chandish R. Ballal, ex- Director and Dr N. Bakthavatsalam present Director, ICAR - National Bureau of Agricultural Insect Resources and Dr Kailash Chandra, Director, Zoological Survey of India for all the research facilities and support.

Website Designer

Ms. Lavanya G

Young Professional-I, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.

List of National Biodiversity Authority (NBA) of India Voucher Specimens deposited in ICAR-NBAIR repository



Voucher specimen depositor list

Home | Credits | Contact
Copyright © 2018, ICAR-National Bureau of Agricultural Insect Resources
www.nbai.res.in

0 0 0 0 0 0

List of National Biodiversity Authority (NBA) of India Voucher Specimens deposited in ICAR-NBAIR repository



Credits

Dr Ankita Gupta

Senior Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India
<https://www.nbai.res.in/index.php/node/102>

Dr Sunil Joshi

Principal Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India
<https://www.nbai.res.in/index.php/node/71>

Director

ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India

Website designed by:

Lavanya G, Young Professional-1, ICAR-NBAIR, Bangalore.

Home | Credits | Contact
Copyright © 2018, ICAR-National Bureau of Agricultural Insect Resources
www.nbai.res.in

S. No 10 A.5 to 10 A.8 proofs : Database screenshots

AMAZING CREATURES: MYTHS & FACTS

HOME CREDITS CONTACT

Venomous/ Irritating species

Camouflage creatures/ deceiving forms

Model-Mimic

Frequent flyers

Enchanting beauties

Bizarre

Furious predators

Largest/ smallest insects

Museum highlights



Deceiving forms

NBAIR

Insects have been thriving on this planet for about 350 million years and the oldest known insect fossil dates back 400 million years however *Homo sapiens* L. have lived for only 130,000 years. Globally there are approximately 7 million species of terrestrial arthropods with 5.5 million species of insects (Stork, 2018). Insects are more abundant and conspicuous in nature as compared to

AMAZING CREATURES: MYTHS & FACTS

HOME ABOUT CREDITS CONTACT

Credits

Conceptualization

Dr T. B. Sharma
Deputy Director General (Crop Sciences)
Indian Council of Agricultural Research
Ministry of Agriculture and Farmers Welfare
Govt. of India, Kirti Bhawan, New Delhi, India

Dr N. Balakrishnaiah
Director, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.

Author/Editor/Moderator

Dr Ankita Gupta
Senior Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.

Designed by

Ms. Lavanya G
ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.

Citation

Gupta, A. 2020. Amazing Creatures: Myths & Facts. World Wide Web electronic publication. ICAR-NBAIR, India.
https://database.nbaire.res.in/Amazing_Creatures/index.html

Type Specimens in ICAR-NBAIR Collections



Crinibracon chromusae Gupta & van Achterberg
Original combination: *Crinibracon chromusae* Gupta & van Achterberg (Hymenoptera: Braconidae)
Type status: Holotype
Sex / stage: Female, on card
Label verbatim: "INDIA, Karnataka, Bangalore, Yelahanka, 13.06°N 77.35°E, 1.iv.2016, ex: pupae of *Hasora chromus* (Cramer) on *Milletia* (= *Pongamia*) *pinnata* (L.) Panigrahi (Fabaceae), NBAIR, Code 1416"
Note: Paratypes: 5 female, 5 male (NBAIR) [part of the same brood as holotype].
Publication: Ankita Gupta, Cornelis van Achterberg & Malathi Chitrala 2016. A new species of *Crinibracon* Quicke (Hymenoptera: Braconidae) parasitic on pupae of *Hasora chromus* (Cramer) (Lepidoptera: Hesperidae) from India. *Zootaxa* 4158 (2): 281-291.
<http://www.mapress.com/j/zt/article/view/zootaxa.4158.2.9>

Back to list

Type Specimens in ICAR-NBAIR Collections

Credits

We thank the Indian Council of Agricultural Research, New Delhi for the research funds.

Compiled & edited by:
Dr J. Poorani, Principal Scientist, NRCB, Tiruchirapalli, Tamil Nadu (till 8th May 2015)
Dr Ankita Gupta, Senior Scientist, ICAR-NBAIR, Bangalore (from May 2015 till date)

Website designed by:
Malathi Chitrala, SRF, NPIB project, ICAR-NBAIR, Bangalore

Website moderator:
Lavanya G, YP-1, ICAR-NBAIR, Bangalore (from December 2017 till date)

Contributors:
Ankita Gupta
J. Poorani
Sunil Ioshi

BEE FAUNA OF INDIA

HOME GENERA/SUBGENERA SPECIES LIST BIBLIOGRAPHY CREDITS LINKS

Genus: *Xylocopa* Latreille, 1802
Of the 375 species of *Xylocopa* worldwide we treat 34 confirmed to occur in India.

SUBGENERA
Biluna, *Ctenoxylocopa*, *Haploxylocopa*, *Koptortosoma*, *Maalina*, *Nodula*, *Nyctomelitta*, *Platynopoda*, *Proxycopa*, *Xylocopa*, *Zenohirsuta*

ALPHABETICAL INDEX OF SUBGENERA
ALL | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |

Subgenus *Biluna*
1. *Xylocopa auripennis* Lepelletier, 1941
2. *Xylocopa tranquebarorum* (Swederus, 1787)
3. *Xylocopa nasalis* Westwood, 1842

BEE FAUNA OF INDIA

HOME GENERA/SUBGENERA SPECIES LIST BIBLIOGRAPHY CREDITS LINKS

Editors/authors
Dr. John S. Ascher (Lead editor/author)
Assistant Professor, Department of Biological Science, National University of Singapore
Research Associate at American Museum of Natural History and Lee Kong Chian Natural History Museum
http://www.dbs.nus.edu.sg/staff/john_ascher.html
Lab website: <http://insectdiversitynus.wordpress.com>

Dr. Ankita Gupta
Scientist (SS), ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India
<http://www.nbaire.res.in/ankita.php>

Website designed and developed by:
Dr M.Prathepa
Principal Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India
<http://www.nbaire.res.in/prathepa.php>

BEE FAUNA OF INDIA

Home Genera/Subgenera Species List Bibliography Credits Contact

Genus: *Ceratinini* Latreille, 1802
Of the 375 species of *Ceratina* worldwide we treat 22 confirmed species occur in India.

SUBGENERA Subgenera *Ceratinidia*

1. *Ceratina cavirostris* Shiohawa, 2006
2. *Ceratina coptica* Baker, 2002
3. *Ceratina demotica* Baker, 2002
4. *Ceratina eburneopicta* Cockerell, 1911
5. *Ceratina hieroglyphica* Smith, 1854
6. *Ceratina moderata* Cameron, 1897
7. *Ceratina simillima* Smith, 1854

Subgenera *Catoceratina*

1. *Ceratina perforatrix* Smith, 1879
2. *Ceratina splendida* Shiohawa, 2008

BEE FAUNA OF INDIA

Home Genera/Subgenera Species List Bibliography Credits Contact

Editors/authors

Dr John S. Ascher (Lead editor/author)
Assistant Professor, Department of Biological Science, National University of Singapore.
Research Associate at American Museum of Natural History and Lee Kong Chian Natural History Museum.
http://www.dbs.nus.edu.sg/staff/john_ascher.html
Lab website: <https://insectdiversitynus.wordpress.com>

Dr Ankita Gupta
Scientist (SS), ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.
<https://www.nbaire.res.in/index.php/node/102>

Contributors (Website Designing):

Ms. Lavanya G
Young Professional-I, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), India.

Acknowledgments:
We are grateful to Dr M. Prathepa, Principal Scientist, ICAR- National Bureau of Agricultural Insect Resources (NBAIR), for her help and support from AKMU cell.