

BIODATA



1. **Name** : **DR JAGBIR SINGH KIRTI**
2. **Designation** : **PROFESSOR**
3. **Department** : **Zoology and Environmental Sciences**
4. **Date of Birth** : **06.12.1956**
5. **Address for Correspondence** : **#28, Block-G, Ramatray Street, Deelwal Colony, Urban Estate Phase-I, Patiala – 147 002**
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6. **Areas of Specialization:** **Entomology: Systematics/ Taxonomy / Biodiversity / Vector Biology**
7. **Academic Qualification:** **M.Sc. (Hons.), Ph.D.**

Sr. No	Degree Held	Year	Board/Univ./Inst.	Div./Rank	Subjects Taken
1	B.Sc. (Hons. Sch.)	1978	Panjab University, Chandigarh	Second	Zoology, Botany, Biochemistry, English
2	M.Sc. (Hons. Sch.)	1979-80	Panjab University, Chandigarh	First	Zoology (Entomology)
3.	Ph.D.	1985	Punjabi University, Patiala	Outstanding reports	Taxonomic studies on Pyraustinae (Pyralidae : Pyraloidea : Lepidoptera) from North-East India with particular reference to the structure of external genitalia

8. **Membership of Advisory committee of National organizations / Professional Bodies/ Academic Organizations/Convener/President/Chairman**
 - **Member Program Advisory Committee (PAC) SERB, Dept. of Sci. & Tech., Govt. of India, New Delhi from 2012 to 2016.**
 - **Member Scientific Advisory committee (SAC), CRME, ICMR New Delhi from 2012-2016.**

- **Member Advisory committee UGC for SAP-DSA Scheme, NEHU, Shillong from 2011 to 2016.**
 - **Member Local Projects Advisory Committee (LPAC), Punjab State council for Science and Technology from 2012 to 2016.**
 - **Nominated/Appointed as External Expert Member for Defense Research Laboratory, Tejpur (DRDO) for a period of 3 years i.e. from 2015 to 2018.**
 - **Course Director and Coordinator, SERB School in Insect Biology (DST, Govt. of India) from 2016 onwards.**
 - **Nodal Officer, Centre for Swatch Bharat Swasth Bharat from 2014 onwards.**
 - **Expert member All India Coordinated Projects on Taxonomy, MOEF Govt. of India, New Delhi from 2019 onwards.**
1. **Chairman**, North West India's Chapter of National academy of Vector borne Diseases.
 2. **Executive Member** National Academy of Vector Borne Diseases.
 3. **President**, Punjabi University Environment Society.
 4. **President**, Association of Entomologists.
 5. **President Elect** Society for Arthropodology
 6. **Advisor**, Society of Vector Ecology (SOVE) Indian region.

Life Member and Fellow

1. Indian Academy of Environmental Sciences.
2. Society for Advancement of Insect Sciences.
3. Indian Academy of Vectors & Vector-Borne Diseases.
4. Indian Academy of Entomology, Chennai.
5. Society for Environmental Scientists.
6. Punjab Academy of Sciences, Patiala.
7. Association of Entomologists
8. Life member of Society of Vector Ecology (SOVE).

Founder Member

Founder member SACNET, Bionet - International, (U.K).

- **Remained as Subject Expert in various selection committees of Universities/ State Service Commissions for the post of Assistant Professors, Associate Professors and Professors.**
- **Subject expert for Scientists (E) and (F) in ICMR.**
- **Reviewer and subject editor for many National and International Journals.**

9. **Medals/ Awards/Honours/Received**

1. Selected as one of the 18 **young scientists from India** and only one from Punjab for a National DST workshop of three week held at Entomology Research Institute Loyalla College, Chennai in 1990.
2. Selected as **one of the 10 young scientists from Asia** in May, 1997 to participate and present an invited talk by **Japanese Society of Electron Microscopy (JSEM)** and Kochi Medical School. **An Award of Honour was presented by JSEM in Amagaski (Osaka), Japan in May, 1997.**
3. BIO-NET International, U.K. **selected and sponsored** as a **specialist on taxonomy from India** and sub-region to participate in **2nd Global Workshop** held in Cardiff, Wales, UK from August 21-29, 1999.
4. National Academy of Vector-Borne Diseases awarded '**Certificate of Excellence**' for **academic achievements** at Patiala in February 2000. **A Certificate of Appreciation was also awarded** for successfully organizing Fifth International Symposium on vectors and vector borne diseases by National Academy of Vector Borne Diseases at Patiala in February 2000.
5. BIO-NET International, U.K. **selected and sponsored** as a specialist on taxonomy from India and sub-region to participate in 3rd global workshop on the topic, "**Towards Sustainable Development : Partnership for Demand Driven Taxonomic Capacity Building**" in July, 2003 at Pretoria, South Africa.
6. National Academy of Vector-Borne Diseases presented **an Award for outstanding work in vector biology** at Patiala on February 18, 2005.
7. A **Roll of Honour** was awarded by Panjab University Alumni Association Toronto (Canada) for significant contributions in the field of entomology in October 2005 at Toronto.
8. **Indian Academy of Environment Sciences (IAES), Hardwar** presented the **GOLD MEDAL of IAES for the year 2011** on February 12, 2011 in **recognition of valuable contributions in the discipline of bio-sciences with special reference of cause of insect biodiversity, their taxonomy and pollution related studies with in Indian sub-continent** during National seminar on climate held at Dr. R.M.L. Avadh Vishwavidyalaya, Faizabad.
9. **Indian Society for Advancement of Insect Science** presented **Honorary Fellowship Award for outstanding contributions in Entomology** during the 3rd Congress on Insect Science held on April 18, 2011 at PAU, Ludhiana.
10. **Biotech International Award 2011 for outstanding contributions in the field of vector biology and vector management by National Academy of Vector Borne Diseases** during XI International Symposium on vectors and vector borne diseases

held at RMRC, Jabalpur on 15th October, 2011. The Award carried a cash prize of Rupees one lakh.

11. **Global Vighyanik Award -2012 presented by Global Punjab Foundation on 13th September for outstanding contributions in the field of Environment.**
12. **Rachel Reuben Medal-2012** was presented during 6th conference of Medical Arthropodology by **Centre for Research in Medical Entomology** at Madurai on 18th Oct, 2012.
13. An **Award of Honour** was given by Panjab University Alumni Association Toronto (Canada) for significant contributions in the field of entomology on 11th October, 2014 in Toronto.
14. Eminent Scientist Award 2014 at Kolkatta in March, 2015.
15. **Life Time achievements** Award for outstanding contributions in the field of Entomology by School of Entomology, St. John College, Agra in an International Conference during February 2016.
16. **Life Time achievements Award** for outstanding contribution in the field of Taxonomy and Biodiversity of Insect Vectors during the 9th National Medical Conference on Arthropodology held at the Sir Ronald Ross Institute of Parasitology, Osmania University, Hyderabad on August 20, 2016.
17. **Life Time achievements Award** for outstanding contribution in the field of Taxonomy during "Workshop cum Symposium on Traditional and Modern Animal Taxonomy and IPR issues for Biodiversity Protection and Conservation" organized by Dolphin PG Institute of Medical and Natural Sciences, Dehradun in collaboration with ZSI, Kolkata and IARI, New Delhi held on 26th November, 2019.
18. Dr. J.S. Yadav oration Award by Department of Zoology, Kurukshetra University on 24 November, 2016.
19. An Award **ISMOCD, 2023** was presented for outstanding work on Vector Biology by Indian society of Malaria and Communicable Diseases.
20. **Best Taxonomist** award was conferred by the organizers of Indian **SOVE- 23** at VCRC, Puducherry. The award was presented by the Hon'ble Lieutenant Governor of Puducherry and Hon'ble Governor Telangana on 16th March, 2023.

10. Details of Experience:

S. No.	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature on Experience
1.	Punjabi University, Patiala	Curator	Feb. 1986 to June 1989	Teaching & Research
2.	Punjabi University, Patiala	Lecturer-cum-Curator	June 1989 to July 1998	Teaching & Research
3.	Punjabi University, Patiala	Reader/Associate Professor	1998 to July 2006	Teaching & Research
4.	Punjabi University, Patiala	Professor	July 2006 to date	Teaching & Research
5	Punjabi University, Patiala	Professor and Head	November, 2012 to October, 2015	Administrative, Teaching and Research

11. Published Research Work:

- a. Research Papers: **312**
National: **207**
International: **108**
- Published: **312**
Research Papers Accepted/Communicated: **19**
- Conference/Workshop/Seminar
Presentation/Motivational
Programme/Invited talks: **300**
- National: **255** International: **45**
- b. **BOOKS** : **Published- 8**

INTERNATIONAL WORKSHOPS/CONFERENCES:

Participated in 2 International Workshops, an advance course on systematics and 9 International conferences abroad. Besides this, the undersigned was selected and sponsored by International Vegetable Centre known as AVRDC, Taiwan as a resource person/visiting professor to impart training to Entomologists in the field of Taxonomy/Systematics in December, 2010.

Academic Foreign Visits : Hongkong, China (1996); Japan (1997); London (U.K.) (1998); Wales (U.K.) (1999); Netherland (1999); Singapore (2000); Spain (2001); Italy (2002); South Africa (2002); Switzerland (2003), USA & CANADA (2005); Taiwan (2010); CANADA and UK(2011)South Korea(2012); San Antonio, Texas, USA(2014); Toronto (Canada) (2014), Hongkong, China (2015); Palma Mallorca, Spain (2017); Turkey (2018); Hongkong (2018).

12. R & D Projects

R & D Projects (completed)

1. UGC minor research project on Taxonomic studies on some Pyraustinae (Pyralidae : Lepidoptera) from North India (as Principal Investigator).
2. UGC minor research project on Systematic studies on tiger moths (Arctiidae : Lepidoptera) from Punjab and adjoining areas (as Principal Investigator).
3. Bayer project on Evaluation/ trials on Fipronil 0.05% Cockroach Gel (Maxforce Forte) (2010 onwards) **(as Principal Investigator).**
4. UGC major research project on Systematics of Indian Sphingidae (Ditrysia : Lepidoptera) (1989-1993)(as Co-principal Investigator)
5. DST major research project on **Taxonomic Revision of Indian Arctiidae (Lepidoptera)** (as Principal Investigator) from 2003-2006
6. MOEF Project on **Taxonomic Studies on Family Noctuidae (Lepidoptera: Noctuoidea) from Western Ghats of India (2006-2010(As P.I.)**
7. DST major research project on **Taxonomic Revision of Indian Arctiidae (Lepidoptera)** Part-II (2008-2012) (as Principal Investigator).
8. UGC project on Insect diversity of Lepidoptera, Hymenoptera, Coleoptera, Odonata and Diptera from North West Himalaya Under DRS Phase-I (SAP). **(2007- 2012) (as Deputy-coordinator)**

9. DST major research project on Mosquito Diversity and Impact of Ecological Changes on Major Vector Species of Family Culicidae (Diptera) from Punjab.(April 2011-2014) **(as Principal Investigator).**
10. Project under SAP-DRS scheme on Insect diversity in the Indian Himalayan Region (April 2012-2017) **(as Deputy-coordinator)**.
11. DST major research project on **Taxonomic Revision of Indian Arctiidae (Lepidoptera)** Part-II1 (2015-2018) **(as Principal Investigator).**

13. **Invited Articles**

I. List of Articles in Punjabi

1. A Scientific analysis of Birds committing suicide in Jatinga village of Assam.
2. Malaria in historic perspective.
3. Yellow fever from historical point of view.
4. An article on Environment
5. An article on Biodiversity
6. An article on Importance of Insects.

II. Invited talks

Delivered many invited talks on the subject of Biodiversity, Environment, Health, science and education, Vector Borne Diseases in different institutions in different states of India and abroad

Delivered many Radio and T.V. Talks on environmental issues besides preparing two major programme for UGC country vide classroom.

14. **Ph.D. Scholars:**

I. Degree Awarded:

Sr. No.	Name of candidate	Topic	Year
1.	Dr. Sagandeep Kaur	Contribution of scanning electron microscopic studies towards the taxonomy of known species of mosquitos from Punjab and adjoining areas (Dipera : Culicidae).	1997
2.	Dr. Amritpal Singh	Taxonomic studies of subfamilies Arctiinae and Lithosiinae (Arctiidae : Lepidoptera) from North-East and North-West India.	1997

3. Dr. Jagdish Kaur Taxonomic studies on family Culicidae (Diptera) from North-West India with particular reference to the structure of external genitalia. **2001**
4. Dr. Archana Singh Taxonomic studies on families Libellulidae and Gomphidae (Anisoptera : Odonata) from North-West India. **2001**
5. Dr. Jagpreet Singh Sodhi Comparative Morphology of Internal Genitalia and its Taxonomic Significance in Family Arctiidae (Lepidoptera) from North-East India. **2004**
6. Dr. Navneet Singh Taxonomic studies on family Arctiidae from Western Ghats of India. **2007**
7. (Dr.) Major R.K. Sharma Taxonomic studies on Geometridae (Lepidoptera) from Sikkim and Arunachal Pradesh. **2008**
8. Dr. Mandeep Kaur Comparative Morphology of Internal Reproductive System and its Taxonomic Significance in Family Geometridae (Lepidoptera) from Himachal Pradesh **2009**
9. Dr. Birpal Kaur Comparative Morphology of Internal Reproductive System and its Taxonomic Significance in Family Noctuidae (Noctuoidea : Lepidoptera) from Himachal Pradesh. **2010**
10. Dr. Tarun Goyal Taxonomic Studies on Family Geometridae (Lepidoptera) From Western Ghats of India. **2011**
11. Dr. Ratesh Kumar Taxonomic Studies on family Noctuidae (Noctuoidea : Lepidoptera) from western ghats of India **2013**
12. Dr. Simarjit Kaur Studies on Culicinae diversity (Culicidae : Diptera) and impact of ecological changes on its major vector species from Punjab. **2013**
13. Dr. Rahul Joshi Taxonomic studies on Indian Lithosiinae and Ctenuchinae (Lepidoptera : Arctiidae) **2013**
14. Dr. Charan Kamal Sekhon Taxonomic significance of external genitalia in family Noctuidae (Noctuoidea : Lepidoptera). **2013**
15. Dr. Mudasar Ahmad Dar Diversity in family Noctuidae (Lepidoptera) from Jammu & Kashmir. **2014**

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| 16. | Dr. Abhinav Saxena | Taxonomic studies on family Geometridae from North-east India. | 2014 |
| 17 | Dr. Harkamal Singh | Taxonomic studies on family Noctuidae from North-east India. | 2014 |
| 18. | Dr. Jaswinder Kaur | Studies on ovipositional preference as a Method of Screening maize germplasm against <i>Sesamia Inferens</i> (Walker) (Noctuidae : Lep.) | 2014 |
| 19 | Dr. Shipali | Taxonomic studies on subfamily Anophelinae (Culicidae: Diptera) and impact of ecological changes on its major vector species from Punjab. | 2014 |
| 20 | Dr. Deepika Mehra | Taxonomic studies on family Nymphalidae (Papilionoidea: Lepidoptera) from North West Himalaya with special emphasis on genitalic attributes. | 2017 |
| 21 | Dr. Jasneet Kaur | Contribution of Scanning Electron Microscope studies towards the Taxonomy of subfamily Culicinae (Culicidae : Diptera) from Punjab. | 2017 |
| 22 | Dr. Harsimran Singh | Taxonomic studies on Pyraustinae (Crambidae: Lepidoptera) from Western Ghats and North - East India. | 2018 |
| 23 | Dr. Saveena Bhogtapa | Studies on the life history and chaetotaxy of selected species of butterflies from Himachal Pradesh along with their diversity assessment from Lahoul Valley. | 2018 |
| 24 | Dr. Harvinder Singh | Taxonomic revision of Indian Lithosiinae (Arctiidae: Lepidoptera). | 2019 |
| 25 | Dr. Manpreet Kaur | Taxonomic studies on Indian Pieridae (Papilionoidea: Lepidoptera) | 2020 |
| 26 | Dr. Rahul Ranjan | Taxonomic studies on Indian subfamily Pyraliinae and Epipaschiinae (Pyralidae : Lepidoptera) from North-East India. | 2021 |
| 26 | Dr. Aditya Tanwar | Biochemical interaction of Diapausing and non diapausing maize stem borer <i>Chilo partillus</i> (Swinhoe) in Maize. | 2022 |

II. Registered Ph.D Scholars:

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| 27 | Mr. Santosh Singh | DNA barcoding of some species complexes of Indian Lithosiinae (Lepidoptera: Arctiidae) | 2017 |
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28	Mr. Harsimranjeet Singh	Morphotaxonomy and DNA barcoding of some species complexes of Indian Arctiinae	2017
29	Mr. Manpreet Singh	Taxonomic studies on Indian Ennominae (Geometridae: Lepidoptera)	2018

15. M.Phil Students guided:

Sr.No.	Name of Candidate	Year
1.	Mr. Amritpal Singh	1992
2.	Miss Sagandeep Kaur	1993
3.	Miss Kavita Sharma	2009
4.	Miss Priyanka	2010
5.	Miss Shipali	2011
6.	Miss Navneet Kaur	2012
7.	Miss Jasneet Kaur	2012
8.	Mr. Devinderpal Singh	2013
9.	Miss. Ravjeet Kaur	2014
10.	Miss. Surbhi Talwar	2015
11.	Miss Parminder Kaur	2016

List of Papers/Course taught at P.G. Level

Sr. No.	Paper	Class
1	Ecology, Systematics and Evolution	M.Sc I
2.	Bio-systematics and taxonomy	M.Sc.I
3.	Agriculture and medical entomology	M.Sc.II
4.	Insect Anatomy and Physiology	M.Sc. II

17. **Technical Proficiency**

The undersigned is a trained taxonomist on insects of order Lepidoptera and Diptera. I have attended an advanced course on Systematics/Taxonomy conducted by CAB Biosciences, U.K. Besides this, I have experience of working in Natural History Museum, London and three National Museums i.e. Zoological Survey of India, Kolkata; Indian Agricultural Research Institute, New Delhi and Forest Research Institute, Dehradun. Apart from this, I have worked in National Institute of communicable diseases, New Delhi. I have attended a summer school and a workshop organised by Department of Science and Technology and Indian Council of Agriculture Research respectively in the field of Entomology. I can identify different species of order Lepidoptera and Diptera including pest species and different mosquito species of family culicidae.

17. **PUBLICATIONS**

Books Published:

1. Sidhu, D.S., Singh, J., and Singh, D. 2002. Advances in Medical Zoology. pp. 1- 177. (Published by: Publication Bureau, Punjabi University, Patiala).
2. Sharma, V.P. & Kirti, J.S. 2006. Vector Biology. pp. 1-256. (Published by: National Academy of Sciences, India, Allahabad).
3. Kirti, J.S. & Kumar, A. 2010. Advances in Entomology. pp. 1-288. (Published by: Kanishka Publishers, New Delhi).
4. Kirti, J.S. & Singh, N. 2015. Arctiid Moths of India, Vol. **1**:1-204 (Published by: Nature Books India, New Delhi).
5. Kirti, J.S. & Singh, N. 2016. Arctiid Moths of India, Vol. **2**:1-214 (Published by: Nature Books India, New Delhi).
6. Kirti, J.S., Chandra, K., Saxena, A., and Singh, N. 2019. Geometrid Moths of India:1-296.
7. Kirti, J.S., Singh, N., Volynkin, A.V. and Singh, H. 2019. A review of the genus *Cyana* Walker, 1854 from India, with descriptions of seven new species (Lepidoptera: Erebidae: Arctiinae: Lithosiini) Zootaxa, 4738 (1): 001–093.

List of Published Research Papers:

1. 1984 Studies on the genus *Phytometra* (Phytometrinae : Noctuidae). *J. Bio. Res.*, 4 (1) 87-93.
2. 1984 Mathew's report on the occurrence of an unusual frenulum in *Pycnarmon caberalis* Guenee (Pyrallide : Lepidoptera), an in accurate account. *J. Ent. Res.* 8 (2) : 226.
3. 1985 Studies on the genus *Grammodes* Guenee (Catocalinae : Lepidoptera). *Geobios New Reports*, 4 : 29-33.
4. 1985 Further studies on the genus *Polythlipta* Lederer (Pyraustinae : Pyralidae : Lepidoptera). *Biologica*, 1 : 53 - 59.
5. 1986 Recognition of the natural group of four species under genus *Tangla* Swinhoe. *Biologica* 2 : 222-227.
6. 1986 Comments on the genus *Bocchoris* Moore alongwith the reporting of a genus *Nankogobinda* n. gen. (Pyraustinae : Pyralidae : Lepidoptera). *J. Ent. Res.*, 10 (1) : 63-69.
7. 1987 A genus and species of Pyraustinae (Pyralidae : Lepidoptera) new from India. *J. Bombay Nat. Hist. Society.* 84 (2) : 392-395.
8. 1987 Taxonomic status of two north-eastern Indian species referred to genus *Sylepta* Hubner to genus *Hemopsis* n gen. (Pyraustinae : Pyralidae : Lepidoptera). *Entomon* 12 (4) : 379-383.
9. 1987 Two new species of genus *Colobodes* Schonhen (Curculionidae : Cryptorhynchinae) from India. *Entomon* 12 (3) : 101 - 106.
10. 1989 Further studies on the Indian species of genus *Glyphodes* Guenee (Pyraustinae: Lepidoptera). *Proceedings N.M.Y.S.* (1989) : 195-200.
11. 1989 First record of genus *Toxobotys* Munroe and Mutuura (Pyraustinae : Pyralidae : Lepidoptera) from Oriental region. *J. Ins. Sci.* 2 (1) : 10-13.
12. 1989 *Indogrammodes* gen. nov. for *Polygrammodes pectinicornalis* Guenee (Pyraustinae : Pyralidae : Lepidoptera). *J. Bombay Nat. Hist. Society*, 86 (3) : 1-14.
13. 1989 Significance of External genitalia in separating *Lagoptera* (Catocalinae : Lepidoptera) as a morphovariant species. *The Indian zoologist* 13 (1 & 2) : 71-72.
14. 1990 Taxonomic studies on the three species of genus *Botyodes* (Pyraustinae : Pyralidae). *J. Ins. Sci.* 3 (2) : 118-121.
15. 1990 Recharacterisation of the genus *Hypoprya* Guenee alongwith description of a new species. *Oikioassay*, 7 (1 & 2) : 9-12.

16. 1991 Identification of three species of genus *Lygniodes* Guenee (Catocalinae : Noctuidae : Lepidoptera). Pure and Applied Sciences. *Bio. Res. Bull.* 5 (1-2) : 8-12.
17. 1992 Studies on Indian species of the genus *Palpita* Hubner (Lepidoptera : Pyralidae : Pyraustinae). *J. Ent. Res.*, 16 (1) : 62-77.
18. 1992 Reporting of three new combinations under genus *Palpita* Hubner (Pyraustinae : Pyralidae : Lepidoptera). *Geobios New Reports*, 11 (2) : 113-117.
19. 1993 Two new species of genus *Synclera*. *J. Inst. Sci.* 6 (1) : 28-31.
20. 1994 Taxonomical studies on three species of Arctiinae (Arctiidae: Lepidoptera). *Geobios New Reports*, 13: 19-24.
21. 1994 Genitalic studies on four Indian species of genus *Spillarctia* Butler (Arctiidae). *Uttar Pradesh J. Zool.* 14 (1) : 87-88.
22. 1995 Scanning Electron studies on mouth parts of some mosquito species (Diptera : Culicidae) from Punjab. Proceedings IVth International Symposium on Vectors and Vector borne diseases, 1 : 98-103.
23. 1995 Sense organs on the Antenna and Maxillary palps of Female *Aedes aegypti* (Linnaeus) a scanning Electron microscopic study. *Hexapoda (Insecta Indica)* 7 (1) : 1-6.
24. 1995 Taxonomical studies on two Indian species of genus *Pericallia* Hubner (Arctidae Lepidoptera). *Hexapoda, (Insecta Indica)* 7 (1) : 45-49.
25. 1995 Scanning Electron Microscopic Studies (SEM) on the mouth parts of female *Anopheles annularis* Vander wulp (Diptera : Culicidae) from Punjab (India). *Ann. Entomol.*, 13 (1) : 57-61.
26. 1996 Scanning Electron Microscopic studies on the Palpal sensella of five species of Mosquitoes referable to genera *Aedes* Meigen and *Culex* Linnaeus (Culicidae : Diptera). *Geobios New Reports* 15 : 37 - 40.
27. 1996 Genitalic studies on genus *Cyana* Walker (Arctiidae). *Ad. Bios.*, 15 (1) : 33-40.
28. 1996 Unusual Location of peg-in-pit sensilla on the antennae of *Anopheles barbirostris* Vander walp (Diptera : Culicidae). Proc. Sixth Asia - Pacific Conference on Electron Microscopy, (Honkong) MS No. - LS 037-1 : 1-2.
29. 1996 Discriminatory structures in the mouth parts of the anopheline mosquitoes (Dipter:Culicidae). Proc. Sixth Asia Pacific Conference on Electron Microscopy, (Honkong) MS No. LS 037 -2 : 1-2.
30. 1996 Role of genitalia in the taxonomy of family Arctiidae. *Rec. Advances in Bios.*, 1996 : 227-238.

31. 1996 Taxonomic studies on genus *Eurrhyarodes* Snellen (Pyraustinae : Pyralidae : Lepidoptera). *Bulletin of Association of Zoologists*, 3 (2) : 30-34.
32. 1996 Revalidation of genus *Satanastra* Meyrick alongwith the revised diagnosis of genus *Pycnarmon* Lederer (Pyraustinae : Pyralidae : Lepidoptera). *Hexapoda* (Insecta Indica) 8 (2) : 89-99.
33. 1997 Reporting a new combination under genus *Limbototys* Munroe and Mutuura (Pyraustinae : Pyralidae : Lepidoptera). *Geobios New Reports* 16 : 2-5.
34. 1997 Disposition of sensilla on the flagellar segments of Antenna of two Anopheline species. Proceeding IInd Symposium on Vectors and Vector Borne Diseases, 1997 : 202-206.
35. 1997 Revalidation and Recharacterization of genus *Arctata* Roepke (Arctiinae : Arctiidae : Lepidoptera). *Hexapoda*. 9 (1 & 2) : 1-7.
36. 1998 Revalidation and Recharacterisation of genus *Trypheromera* Butler (Arctiinae : Arctiidae : Lepidoptera). *J. Ent. Res.* 22 (4) : 303-305.
37. 1998 Importance of Scanning Electron Microscopic studies (SEM) in the taxonomy of Mosquito species. Proc. Nal. Sem. on Insect & Environment, 1998 : 62-69.
38. 1998 Arctiin diversity from a single locality of village Jatinga (North Cachar hills : Assam). *Him. J. Env. Zool.*, 2001, 12 : 143-148.
39. 1998 Taxonomic studies on the three species of *Callimorpha* Litrielle. (Arctiinae : Arctiidae : Lepidoptera). *Bioved.* 9 (1, 2) : 1-6.
40. 1999 Studies on the male genitalia of two species of genus *Amerila* Walker (Arctiinae: Arctiidae: Lepidoptera). *Geobios New Reports* 18 (1) : 5-8.
41. 1999 A new species of genus *Disemia* Hubner (Pyraustinae : Pyralidae : Lepidoptera) from North-East India. *Geobios New Reports* 18 (2) : 2-5.
42. 1999 Reporting of a new species of under genus *creatonotos* Hubner (Arctiinae : Arctiidae Lepidoptera) from India alongwith key to the Indian species. *Entomon*, 24 (2) : 136-141.
43. 1999 Mosquitoes of Malwa region of Punjab (India). *Geobios New Reports* 18 (2) : 75-76.
44. 1999 New Records of Dragonflies from Haryana State (India). *Fraseria* (N.S.) 6 : 13-14.
45. 2000 Species diversity in Dragonflies of Kanjli Wetland (Punjab). *Geobios*. 27 : 124.

46. 2000 Further studies on three Indian species of genus *Aloa* Walker (Arctiinae : Actiidae : Lepidoptera). *Ad. Bios.*, 19 (1) : 47-54.
47. 2001 A new genus *Mangina* along with the taxonomy of *Argina* (Hübner) (Arctiinae: Arctiidae: Lepidoptera). *J. Bombay Nat. Hist. Society*, 98 (2) : 250-253.
48. 2001 A systematic list of Pyraustinae of North Eastern India (Pyralidae : Lepidoptera). *Zoos' Print Journal* 16 (10): 6-7 - 614.
49. 2002 A new genus and two new species of Arctiinae (Arctiidae: Lepidoptera) from India. *J. Bombay nat Hist. Society*, 99 (1) 79-85.
50. 2002 Arctiid Diversity in Himachal Pradesh (Arctiidae: Lepidoptera). *Geobios* 29 : 137-142.
51. 2002 Morphological variations in natural populations of *Anopheles stephensi* liston, collected from North-West India. Proceeding Vth International Symposium on Vectors and Vector Borne Diseases, 2002, 150-156.
52. 2002 Studies on Footman Moths of Sikkim (Lithosiinae: Arctiidae: Lepidoptera). *Journal of Hill Research*, 15 (1): 26-31.
53. 2002 Ultrastructure of maxillary teeth and sensilla of three Anopheline species of mosquitoes (Insecta: Diptera : Culicidae). *Zoos' Print Journal* 17 (10): 899-902.
54. 2002 The antennal sensilla in three anopheline species. *Ann. Entomol.* 20(1-2): 1-8.
55. 2002 Taxonomic significance of Hamule in some species of family Gomphidae (Odonata). *Fraseria* (N.S.) 7: 3-8.
56. 2002 Studies on the male secondary genitalia of two species of genus *Sympetrum newman* (Lib. Anio.). *Fraseria* (N.S) 7: 9-12.
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214. 2015. External genetalic structures of two species of genus *Euplexia* Stephens (Noctuidae: Lepidoptera). *International Journal of Current Research and Academic Review*, 3(3): 74-79.
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220. 2015. Taxonomic Studies on Three Indian Species of Genus *Amphipyra* Ochsenheimer (Lepidoptera: Noctuidae). *International Journal of Agriculture Innovations and Research*, 3(5).
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222. 2015. Inventory of owlet moths from Western Ghats of India (Noctuidae: Lepidoptera). *International Journal of Applied Research*, 1(5): 175-181.
223. 2015. New record of type species *Calymniops trapezata* (Moore) (Noctuidae: Lepidoptera) from India. *International Journal of Fauna and Biological Studies*,2(4): 30-32.
224. 2015. Taxonomic update and brief account of genitalia on type species of genus *Ramadasa* Moore (Lepidoptera: Noctuidae). *IMPACT: International Journal of Research in Applied, Natural and Social Sciences*, 3(3): 9-12.
225. 2015. Studies on the genitalia of a major pest species of genus *Thysanoplusia* ichinose. *International Journal of Food, Agriculture and Veterinary Sciences*, 5 (1)-53-56.
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227. 2015. An Inventory of Family Noctuidae (Noctuidae:Lepidoptera) from Himachal Pradesh. *International Journal of Interdisciplinary and Multidisciplinary Studies*, 2(6): 73-92.
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290. 2019 Taxonomic Studies On Two Species Of Genus *Calyptra* *Ochsenheimer* (Lepidoptera: Noctuidae) From Kashmir, *Annals of Entomology*.

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298. 2021 Singh, N., Joshi, R., Kirti, J. S., Bisht, S. S., & Param, H. S. A catalogue of Indian Arctiinae (Erebidae, Lepidoptera). *Zootaxa*, 5058(1), 1-118.
299. 2021 Kirti, J. S., Datta, H. S., Bisht, S. S., Param, H. S., & Singh, N. Two New records of the genus *Padenia* Moore, 1882 (Lepidoptera: Erebidae: Arctiinae: Lithosiini) from India. *Records of the Zoological Survey of India*, 120(4), 305-311.
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305. 2022 Volynkin, A.V., Singh, N., ČERNÝ, K., Kirti, J.S. and Datta, H.S., Three new species of *Miltochrista* Hübner from India, Myanmar, Nepal and China (Lepidoptera: Erebidae: Arctiinae: Lithosiini). *Zootaxa*, 5168(3), pp.319-331.
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308. 2022 Kirti, J.S. and Kaur, S., Parlance of insect systematics: from classical to molecular— the journey has been long. In *Advances in Animal Experimentation and Modeling* (pp. 223-246). Academic Press.
309. 2023 Goyal, T., Kirti, J.S. and Stella, S.S., Taxonomic studies on genus *Chiasmia* Hübner (Lepidoptera: Geometridae: Ennominae) with special reference to their external genitalic structures. *Journal of Entomological Research*, 47(1), pp.223-227.
310. 2023 Kaur, M., Singh, J., & Sidhu, A. K. Taxonomic revision of genus *Pareronia* Bingham, 1907 (Papilionoidea : Pieridae) from India with new status for two taxa. *Journal of the Entomological Research Society*, 25(1), 11–22.
311. 2023 Goyal, T., Kirti, J. S. & Stella, S. S. Studies on external genitalic attributes of two species of genus *Traminda* Saalmüller (Lepidoptera, Geometridae, Sterrhinae) from India. *Entomon*, 48(1), 83–88.
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RESEARCH PAPERS (ACCEPTED/ COMMUNICATED)

313. Bogtapa, S. and Singh, J.S. 2020. Butterflies of Lahaul Valley, Himachal Pradesh. *Zoo's Print*.
314. Kaur, S. & Kirti, J.S. 2020. A three year longitude study on the seasonal abundance of major vector species of Japanese Encephalitis in Punjab. *Journal of Zoology & Entomology*. (Communicated)
315. 2020. Jagbir Singh Kirti, Mudasir Ahmad Dar and Zakir Hussain Khan. Monitoring

- of *Mythimna comma* Linnaeus (Noctuidae: Lepidoptera) with fluorescent light in Kashmir Himalaya. *Annals of Entomology*.
316. 2020. Jagbir Singh Kirti, Mudasir Ahmad Dar and Zakir Hussain Khan. First report of Noctuid insect pests collected through different light traps in Kashmir Himalaya. *Journal of research in Biology*.
 317. Kirti, J.S., Singh, H. & Singh, N. (2020). Genitalic studies on two species of *Bomolocha* Hübner (Hypeninae: Erebidae). *Journal of Entomology & Zoology Studies*.
 318. Kirti, J.S., Singh, N. & Saxena, A (2020). A new species of the genus *Corymica* Walker, 1860 (Lepidoptera: Geometridae: Ennominae) from India.
 319. Kirti, J.S., Singh, N. & Saxena, A (2020). A new species of *Luxiaria* Walker (Lepidoptera: Geometridae: Ennominae) from North-East India.
 320. 2023 Singh, H., Kirti, J.S., & Singh, N. A new record of the genus *Tatargina* Butler (Lepidoptera: Erebidae: Arctiinae: Arctiini) from India. *Records of Zoological Survey of India*.
 321. 2023 Singh, H., Raha, A., Kirti, J.S., & N. Singh A review of genus *Lemyra* Walker (Erebidae: Arctiinae) from India. *Zootaxa*.
 322. 2023 Singh, H., Kirti, J.S., & Singh, N. Taxonomic review of genus *Juxtarctia* Kirti & Kaleka (Lepidoptera, Arctiinae, Arctiini). *Journal of Asia-Pacific entomology*.
 323. 2023 Santosh Singh, Navneet Singh & Jagbir Singh Kirti, On the correct taxonomy of genus *Chrysorabdia* Butler 1877 (Erebidae: Arctiinae) from India, with a new species from North West and North East India, *Journal of Asia Pacific diversity*. Communicated.
 324. 2023 Santosh Singh, Navneet Singh & Jagbir Singh Kirti, A new species and a new species record of genus *Barsaurea* Volynkin & Huang, 2019, (Erebidae: Arctiinae: Lithosiini) from North East India. *Zootaxa*. Accepted.
 325. 2023 Santosh Singh, Jagbir Singh Kirti, Rahul Joshi & Navneet Singh Taxonomic review of *Miltochrista hollowai*/ *M. pseudoarcuratas* species-groups with description of three new species from India (Arctiinae: Erebidae: Lithosiini). *Zootaxa*, Accepted.
 326. 2023 Santosh Singh, Navneet Singh, Jagbir Singh Kirti & Rahul Joshi. Three new species record of *Miltochrista* Hübner (Erebidae: Arctiinae: Lithosiini) from India, *Entomological News*. Accepted.
 327. 2023 Navneet Singh, Santosh Singh, Harvinder Datta & Jagbir Singh Kirti. Taxonomic review of genus *Cernyia* Bucsek: solving a group of cryptic species (Erebidae: Arctiinae: Lithosiini), 2023 *Zoologischer Anziger*. Communicated.
 328. 2023 Navneet Singh, Santosh Singh, & Jagbir Singh Kirti. On the taxonomy of *Miltochrista*

- artocarp* (Moore), *M.jaroslavae*(Černý),*M.roseogrisea* (Rothschild) and *M.uncalis* (Kirti & Gill) (Lepidoptera: Erebidae: Arctiinae), *Zootaxa*, under review
329. 2023 Santosh Singh, Navneet Singh & Jagbir Singh Kirti. Taxonomy of genus *Capissa* Moore, with description of two new cryptic species through species delimitation method and molecular analysis , *Biologia* . Communicated
330. 2023 Singh, M., Raha, A., Mallick, K., Kirti, J.S. & Singh, N. A Review of the genus *Plutodes* Guenée 1857 (Geometridae: Ennominae) from India with description of one new species. *Zootaxa*.
331. 2023 Singh, M., Singh, N. & Kirti, J.S. New record of a monotypic genus *Tienoloba* Yazaki (Geometridae: Larentiinae) from India. *Records of Zoological Survey of India*.

LIST OF CONFERENCES AND INVITED TALKS

(Organised/Participated/Invited Talks/Presentation of Research papers in national & international conferences).

1. 1981 Participated in National symposium on Ticks & mites, Zool. Dept. PAU, Ludhiana.
2. 1989 **Organised a national meeting of young scientists** and scholars, at Punjabi University, Patiala.
3. 1990 Presented a research paper in seminar on insect plant interactions, Entomology Research Institute, Madras from Feb 1-2, 1990.
4. 1990 Participated in a Summer Institute on key insect pests of India, sponsored by ICAR, PAU, Ludhiana.
5. 1994 Participated in National symposium on Chemical Ecology to Biotechnology held at Entomology Research Institute. Madras from Oct. 30 to Nov 3 . 1994.
6. 1994 Presented a paper in IVth International symposium on Vectors and vector borne diseases held at Bhubaneswar from Nov. 12-15, 1994.
7. 1995 Presented a paper and **Chaired one session** in 10th Annual Congress on Man and Environment organized by National Environment Science Academy held at Goa from March 9-10, 1995.
8. 1995 Presented a research paper and Chaired one session in National symposium on Recent advances in Bio-Sciences, Haryana Agriculture Culture University Rohtak, Nov. 3-5, 1995.
9. 1996 Organised and participated in 83rd Indian Science Congress held at Punjabi University Patiala, from Jan. 3-8, 1996.
10. 1996 Presented two research papers in Sixth Asia-Pacific Conference on Electron microscopy in Hong Kong, from July, 1-5 1996,.

11. 1996 Participated in the 14th International Punjabi development conference (Science section), at Patiala from Dec. 20-23, 1996,.
12. 1997 Presented a paper in the 84th Indian Science Congress, at Delhi from Jan. 3-8, 1997, New Delhi.
13. 1997 Presented a paper in International symposium on sustainable utilisation of Biodiversity, Dehradun, March 8-10, 1997.
14. 1997 Presented a paper in 2nd International symposium on Vectors and Vector borne diseases, Goa, from March 17-19, 1997,.
15. 1997 Participated in the first Punjab Science Congress under the aegis of Punjab Academy of Sciences, at Patiala from April 28-30, 1997,
16. 1997 Presented an invited paper as one of the ten young scientists from Asia in the 53rd Annual meeting of the Japanese society of Electron microscopy, held in Amagasky, Osaka, Japan from May 21-23, 1997.
17. 1997 Organised a National seminar on insect and Environment, at Panjab University, Chandigarh from Sept. 18-20, 1997.
18. 1997 Organised, 14th National symposium of Indian society of life sciences on recent trends in life sciences, at Punjabi University, Patiala from Oct. 23-25, 1997.
19. 1998 Presented a paper and acted as rapporteur in one session in National symposium on Faunistic biodiversity, environmental monitoring and biotechnology, at Haridwar from Feb. 6-9, 1998.

Research paper of the undersigned was declared as best presentation in Biodiversity section of this conference.

20. 1998 Presented a paper in National seminar on Biodiversity status, management and monitoring, in Jammu University, Jammu from March 20-22, 1998.
21. 1998 **Organised** and acted as rapporteur in the 15th International Punjabi development conference, at Patiala from March 28-30, 1998.
22. 1998 Presented a paper in third International symposium on vectors and vector borne diseases, at Puri from May 28-30, 1998.
23. 1998 Participated in an Entomological foundation course organised by CABI Bioscience - A Division of CAB International at U.K. Centre, Egham, England in August, 1998.
24. 1999 Organised and participated in the 16th International Punjabi Development Conference, at Patiala from Jan. 13-15, 1999.

25. 1999 Presented a paper and chaired one session of vector Biology in the 4th International symposium on vectors and vector borne diseases, at Gwalior from Feb. 18-20, 1999.

During this symposium at Gwalior I was elected as Organising Secretary of Vth International Symposium on vectors and vector borne diseases to be held in Punjabi University, Patiala from Feb. 16-18, 2000.

26. 1999 Participated in Second BioNET-International Global Workshop (BIGW2) held at Wales in Cardiff University, U.K. from August 22-29, 1999.
27. 1999 Presented a research paper on Mosquito systematics in XIIth European meeting held at Wageningen Universtiy in Netherland from Sept. 6-11, 1999.
28. 2000 Organised (As Organising Secretary) Vth International Symposium on Vectors and Vector Borne Diseases at Punjabi University, Patiala from Feb 16-18, 2000.
29. 2000 Participated and presented a paper in 7th Asia Pacific Conference on Electron Microscopy at Singapore from June 24-30.
30. 2001 Selected and sponsored by Common Wealth Science Council, London (U.K.) to participate in Third International Congress held in Barcelona, Spain from Sept. 16-21, 2001.
31. 2002 Participated and presented a paper in 6th International Symposium on Vectors and Vector Borne Diseases held in Bhubaneshwar from February 9 – 11, 2002.
32. 2002 Presented a paper in the 2nd workshop of EMCA held in Bologna Italy from March 14 - 16, 2002.
33. 2002 Participated in the 3rd Global workshop - on the topic "Towards sustainable Development : Partnerships for Demand driven Taxonomic capacity Buidling"held in Pretoria, South Africa from July 8-12, 2002.
34. 2003 Participated in National Symposium on Recent trends in Zoological Science held at Punjabi University Patiala from March 12-13, 2003.
35. 2003 Presented a paper in 14th European Conference of the society for Vector Ecology held in Bellinzona, Switzerland from September 3 -6, 2003.
36. 2005 Participated in 8th Punjab Science Congress held at Department of Zoology, Punjabi University, Patiala from February 7-9, 2005
37. 2005 Organised (As Organising Secretary) VIIth International Symposium on Vectors and Vector Borne Diseases at Punjabi University, Patiala from Feb 18-20, 2000.
38. 2005 Participated in a Seminar on "Water Conservation for Future Generation" held at TIET, Patiala on May 16, 2005.

39. 2005 Selected and Sponsored by Society of Vector Ecology, USA for presenting a plenary lecture in the 4th International Congress of Vector Ecology held in Reno, Nevada, USA from Oct. 2-7, 2005.
40. 2006 Participated in 9th Punjab Science Congress held at S.G.N. Dental College, Sunam from Feb. 7-9, 2006.
41. 2006 Participated in National Symposium on Water and Community Health organized by National Academy of Sciences, Allahabad held at INSA, Delhi from Feb. 10-11, 2006.
42. 2006 Participated in National Congress of Entomology held at Punjabi University, Patiala from March 15-17, 2006.
43. 2006 Delivered a plenary lecture in 8th international conference on vectors & vector borne diseases held at Madurai from October 13-15, 2006.
44. 2007 Delivered an extension lecture on vector borne diseases and Environment in NJSa Govt. College Kapurthala on February 8, 2007.
45. 2007 Acted as a resource person and delivered three lectures in the field & Environment, Biodiversity and Systematics in a refresher course organised by Dept. of Zoology, Jammu University, Jammu in February 2007.
46. 2007 Acted as a resource person and delivered two lectures on changing Environment & vector borne diseases and Insect biodiversity in a refresher course organized by Academic Staff college, Kurukshetra University, Kurukshetra from July 25, 2007 to August 14, 2007.
47. 2007 Organised motivational programme and impact assessment for talented school students as co-ordinator from August 20-26, 2007.
48. 2007 Delivered a plenary lecture on mosquito systematics and presented a research paper in Ist conference on Medical Arthropodology held at Madurai from September 1-2, 2007
49. 2007 Delivered an extension lecture on biodiversity and environmental crisis organised by faculty of life science, Guru Nanak Girl's College, Ludhiana on September 9, 2007.
50. 2007 Chaired a session in International Conference on Ants and other Social Hymenoptera held at Department of Zoology, Punjabi University, Patiala from October 10-13, 2007.
51. 2007 Delivered an invited talk in one day seminar on Science, Environment and Health held at Khalsa College, Amritsar on October 27, 2007.

52. 2007 Delivered an invited talk on vector borne diseases and human health in National seminar on water crisis and Remedial management held at KVA DAV College for women, Karnal on November, 21, 2007.
53. 2008 Delivered a plenary lecture in the inaugural session of National Seminar on Technical advances in Environment management and applied Zoology held at Department of Zoology, Kurukshetra University, Kurukshetra from January 23-25, 2008.
54. 2008 Participated in XI Punjab Science Congress meeting held at Thapar Institute, Patiala from February 7-9, 2008.
55. 2008 Delivered an interactive guest lecture on environmental degradation and new kind of garbage i.e., e-garbage for M.Sc students at DAV College Jalandhar on February 12, 2008.
56. 2008 Chaired a session in IX International conference on Vectors and Vector Borne disease held at Puri (Orissa) from February 15-17, 2008.
57. 2008 Attended National symposium on biodiversity, cell biology and molecular biology held at Panjab University Chandigarh from February 26-27, 2008.
58. 2008 Organised motivational programme and impact assessment for talented school students as co-ordinator from May 02-08, 2008.
59. 2008 Delivered two Invited lectures on Biodiversity and Climate change and human health in a refresher course organized by Academic Staff College, Kurukshetra University, Kurukshetra on June 13, 2008.
60. 2008 Participated in the deliberations of International conference on Diversification of Agriculture vs. food security held at CII, Chandigarh from Nov. 29 to Dec. 01, 2008.
61. 2008 Delivered three invited Lectures on Climate change, Environment, degradation and Biodiversity in Department of Bio-sciences organised by Academic Staff College, Himachal Pradesh University, Simla from Dec. 10-11, 2008.
62. 2008 Chaired a session and delivered valedictory address in 2nd conference on Medical Arthropodology with central theme on Climate change and vector borne diseases held at CRME, Madurai from December 15-16, 2008.
63. 2009 Delivered an invited Lecture on Climate change and Human health at Government College, Mohali on Feb. 06, 2009.
64. 2009 Organised (As Organising Secretary) International Conference on Entomology at Punjabi University, Patiala from Feb. 18-20, 2009.

65. 2009 Delivered an invited talk in National Seminar on Climate charges at Department of Zoology, Guru Nanak Dev University, Amritsar on March 12, 2009.
66. 2009 Delivered an invited talk in National Seminar on Managing Climate Change: Molecules to Communities at Department of Zoology, Kurukshetra University, Kurukshetra from March 21-22, 2009.
67. 2009 Delivered a plenary talk on Environmental crisis in a training programme of 300 Teachers at Fatehgarh Sahib on March 28, 2009.
68. 2009 Delivered three invited Lectures in a refresher course organised by UGC-Academic Staff College, Punjabi University, Patiala from July 7-14, 2009.
69. 2009 Organised motivational programme and impact assessment for talented school students as co-ordinator from August 01-07, 2009.
70. 2009 Delivered an invited talk on vector borne diseases and human welfare in the inaugural session and chaired a technical session in a National Seminar on Response of Eco-Biological Components to the Phenomena of Global Warming (NSREG-2009) held at Kumaun University, Nainital from 26-27th September, 2009
- 70A 2009 Delivered two lectures as a **resource person** in a Refresher course in Academic Staff College, Kumaun University ,Nainital, Uttrakhand in October 2009.
- 71 2009 **Organized** a one day seminar on “**Global Warming and Climate Change**” as President of Punjabi University Environment Society on 30th September, 2009.
- 72 2009 Extension lecture as keynote speaker in an, Environment awareness programme held at Akal Degree College, Mastuana (Sangrur) on 14th October, 2009.
- 73 2009 Delivered a plenary lecture on “**Parlance of mosquito systematics, from classical to molecular level: The journey has been very long**” in Xth International Symposium on Vectors & Vector Borne Diseases held at Goa from 4-6 November,2009.
74. 2010 Delivered **two extension lectures** on “**Environment crisis & biodiversity**” in third orientation course for college & university teachers held at Academic Staff College, Punjabi University, Patiala on 16 January, 2010.
75. 2010 Presented a **Keynote address** in a seminar on “PAWAN GURU PANI PITA” organized under aegis of Guru Nanak Foundation, New Delhi held at Patiala on 19th January, 2010.

77. 2010 Delivered a **Plenary lecture** on “**Climate Change & vector borne diseases**” in a National Seminar on Climate change & Vector Borne Diseases organized by The Asiatic Society, Kolkata on 6th February, 2010.
78. 2010 Participated in National Symposium on “Impact of Trends in climate change in biodiversity and faunistic systems” held in Haridwar from 19-20 February, 2010.
79. 2010 Delivered an invited talk in Science City, Kapurthala in a **State Level Capacity programme** on the topic of “**Environment degradation and human health**” on 15th April, 2010.
80. 2010 Delivered an plenary talk on Biodiversity & sustainable development in Science City, Kapurthala in a State Level Seminar on “**Challenges in Biodiversity Conversation**” on 22nd May, 2010.
81. 2010 Delivered an invited talk in DAV College, Jalandhar, under the aegis of **Kashyap Biological Society** on “**Genetics & Biodiversity**” on 7th August, 2010.
82. 2010 Delivered an invited talk on “**Pawan Guru Pani Pita**” in the department of Shri Guru Granth Sahib Studies, Punjabi University, Patiala on 11th August, 2010 in a **certificate course of Shri Guru Granth Sahib**.
83. 2010 Delivered a plenary lecture in National Conference on “**Recent Advances in Agriculture**” in Department of Agriculture, Baba Farid College, Bathinda on 3rd September, 2010.
84. 2010 Delivered an **invited talk** on “**Climate Change & Global Warming**” in DAV College, Chandigarh on September, 2010.
85. 2010 Delivered **Keynote Address** on “**Biodiversity as Essence of Life**” in a state level seminar in Govt. College, Punchkula on 21st September, 2010
86. 2010 Delivered **Keynote address** in a State Level Seminar on “**Biofuels: Scope & Future Prospects in a rural regions of India**” on 25th September, 2010.
87. 2010 Delivered a lecture on “**Environment Crisis & Mankind**” in a **Refresher course** on Life Sciences conducted by Punjabi University Academic Staff College in October, 2010
88. 2010 **Organized** National Conference on “**Environmental Degradation & its impact on mankind**” as **Organizing Secretary** in Department of Zoology, Punjabi University, Patiala from 19- 20, November, 2010.
89. 2010 Visited International Vegetable Centre (AVRDC, Tainan, Taiwan) as a **Key Resource Person and Visiting Professor** for training **entomologists** of AVRDC on

- Lepidoptera Systematics in general & Maruca Taxonomy in particular from December 11-22, 2010.
90. 2011 Delivered an **invited talk** on “**Biodiversity & Impact of Climate Change**” in a one day National seminar on “Biodiversity: Impact of Global Change” in DAV College (Lahore), Ambala City on 22nd January, 2011.
 91. 2011 Delivered a **plenary talk** on “**Environmental Crisis & Solutions**” in **XXVII International Punjabi Development Conference** organized by Punjabi University, Patiala from 31st January - 2nd February, 2011.
 92. 2011 Delivered a **guest lecture** on “**Environment Degradation & Human Health**” in an ICSSR Sponsored National Seminar on “Environmental Issues: Prospective & Challenges” in Mata Gujri College, Fatehgarh Sahib on February 8, 2011.
 93. 2011 Chaired a session & delivered a **lead talk** on “**Climate Change & its Impact on Biological Communities**” in a National seminar organized by Avadh University, Faizabad, U.P. from February, 12- 13, 2011.
 94. 2011 Delivered the **Keynote address** in a National Seminar on “**Science as a Living Reality: Current Scenario & Emerging Challenges**” on 26th February, 2011 in Hindu Girls College, Jagadhari.
 95. 2011 Delivered two lectures as a **resource person** in a Refresher course organized by Academic Staff College Kurukshetra University on 9th March, 2011.
 96. 2011 Delivered the **Keynote address** in a UGC sponsored National seminar on “**Environmental Pollution**” organized by GHG Khalsa College, Gurusar Sadhar, Ludhiana from March 3-4, 2011.
 97. 2011 An invited talk on “**Animal Circadian Rhythms**” was delivered in XXII National Seminar on **Chronobiology** organized by Department of Zoology, Kurukshetra University, Kurukshetra from March 15- 17, 2011.
 98. 2011 An **invited talk** was delivered in a four day workshop & training programme on “**Science Communication through Digital Media**” organized by Department of Journalism & Mass Communication from March 29- April 1,2011
 99. 2011 Presented an invited talk on **Environmental Crisis & Solutions**” in **World Punjabi Conference** held at Toronto(Canada)on 6th August,2011.
 100. 2011 Delivered an oral presentation on “Culicinae diversity and impact of ecological changes on its major vector species from Punjab” in XI symposium on Vectors & vector borne diseases held at Jabalpur from 15-17, October, 2011.

101. 2011 **Chaired a session and delivered an oral presentation** in 5th conference on Medical Arthropodology held at CRME, Madurai from October 18-19, 2011.
102. 2011 Participated as a member in SAC meeting at CRME, Madurai held from November 24-25, 2011.
103. 2011 Delivered an invited talk on “Pawan Guru Paani Pita” in PG diploma on Sikh Ethology at Punjabi Bhawan, Punjabi University, Patiala in November, 2011.
104. 2011 Delivered an invited talk on Science and education at PAU, Ludhiana in Dec., 2011 in Inspire Programme of DST, New Delhi.
105. 2012 Delivered invited talks on environmental issues to NSS officers in a training programme organized by NSS Department, Punjabi University, Patiala in the months of Jan- Feb, 2012.
106. 2012 **Organized** International Conference on Entomology as **Organizing Secretary** in Department of Zoology & Environmental Sciences, Punjabi University, Patiala from February 17-19, 2012.
107. 2012 Participated and presented a detailed report on mosquitoes of Punjab in a review committee meeting of DST held at BHU, Varanasi from January 10-11, 2012.
108. 2012 Delivered a **plenary talk** on “**Biodiversity as an essence for mankind**” in **XXVIII International Punjabi Development Conference** organized by Punjabi University, Patiala on 2nd February, 2012.
109. 2012 Presented a plenary talk on Environmental issues in a National seminar on “toxic trails of Punjab” held in AS College, Khanna from March 1-2, 2012.
110. 2012 Delivered an invited talk on “Serious challenges faced by humans by environment degradation” as chief guest in a function organized by Zoological Society, PAU, Ludhiana on 9th March, 2012
111. 2012 Delivered two lectures in a refresher course on environment at Panjab University, Chandigarh on 12th March, 2012.
112. 2012 Delivered 3 lectures i.e. on Biofuels, Biodiversity and Environmental issues as a Resource person in 26th Refresher course in Environmental Studies held at Punjabi University, Patiala from 14th May- 2nd June, 2012
113. 2012 Delivered a Plenary lecture on Environment and Human health in a DBT sponsored national seminar in D.A.V. College, Jalandhar on July 21, 2012
114. 2012 Delivered two lectures on Conservation of Biodiversity and Environmental degradation in a refresher course at Nanital University, Nanital on July 26, 2012.

115. 2012 Delivered an Invited talk in an Orientation course for College and University teachers on August 8, 2012 held at Academic Staff College, Punjabi University, Patiala
116. 2012 Participated in the **Insect Bio Expo** held at **Yecheon, South Korea** from August 18-19, 2012
117. 2012 Presented a research paper on **Arctiid Diversity of India** in **XXIV International Congress of Entomology (ICE-2012)** held at Daegu, Korea August 19-25, 2012
118. 2012 Participated as a member in **Program Advisory Committee (PAC)** held at Madras University, Chennai from August 7-10, 2012
119. 2012 Acted as Resource person in a DBT sponsored **workshop on Entomological Techniques** to impart training to post-graduate students and college Lecturers held at DAV College , Jalandhar on September 14, 2012
120. 2012 Delivered a **keynote address** in a national conference on **Biodiversity, Green economy and Sustainable mountain development** held at Shimla University, Shimla on September 22, 2012
121. 2012 Delivered Rachel Reuben auration inaugural address during 6th conference of Medical Arthropodology by **Centre for Research in Medical Entomology** at Madurai on 18th Oct, 2012.
122. 2012 Delivered lecture in 28th Refresher Course, Research Methodology organized by the Academic Staff College, Punjabi University, Patiala on 20 Nov, 2012
123. 2012 Delivered a **lead talk** in International Conference on sustainable agriculture for food and livelihood security during Golden Jubilee celebration at PAU, Ludhiana on 27th Nov, 2012 on topic entitled “**Effect of Climate Change and Global warming on insect pests**”
124. 2012 Delivered lecture in 32th Refresher Course, Life Sciences organized by the Academic Staff College, Punjabi University, Patiala on 22 Dec, 2012
125. 2012 Delivered **keynote Address** during Inspire internship science camp held at A.S.College, Khanna on 22nd Dec, 2012
126. 2012 Delivered **Keynote Address** during Inspire internship science camp held at G.H.G Khalsa College, Gurusar Sadhar, Ludhiana on 26th Dec, 2012
127. 2013 Delivered lecture in 15th Orientation Course for the College and university teachers organized by the Academic Staff College, Punjabi University, Patiala on 13th Feb, 2013

128. 2013 Delivered **Inaugural Address** on “Promotion of Science Education” in India at Guru Nanak College of Girls Jamuna Nagar on 15th Feb, 2013
129. 2013 Delivered an **Invited Talk** on “Conservation of Biodiversity” in Govt. Science College Jagraon (Ludhiana) on 23th Feb, 2013
130. 2013 Delivered **Inaugural Address** on “Environment degradation and Human Health” on occasion of Environment Science day celebrations held at DAV College of Girls Jamuna Nagar on 26th Feb, 2013
131. 2013 Delivered a **Plenary lecture** on “Effect of Global Warming and Climate Change on Insect pest and Vectors” in National conference held at North Eastern Hill University (NEHU), Shillong, Meghalya on 20th March, 2013.
132. 2013 As coordinator organized Refresher course on Environmental Sciences in Punjabi University, Patiala on May 2013
133. 2013 As coordinator organized **programme Advisory committee meeting of Animal Sciences** under SERB-DST at Punjabi University, Patiala on May 31st to June 1st, 2013
134. 2013 Participated and presented an invited talk in Dengue Conference held at CRME, Madurai from July 25-26, 2013
135. 2013 Delivered an Invited Talk on biodiversity conservation and management in an orientation course for College and University Lectures organized by Academic Staff College, Punjabi university, Patiala on 16th July, 2013
136. 2013 Participated in second meeting of a committee constituted for celebration of **National Science Day at PSCST**, Chandigarh for distributing funds to various institutes on 17th July, 2013
137. 2013 Delivered an **Invited Talk** on biodiversity in an orientation course organized by academic staff college, Punjabi University, Patiala on environmental challenges and solutions on 27th July, 2013.
138. 2013 Delivered two **Invited lectures** in a refresher course organized by Academic Staff College, Amritsar on 3rd August, 2013.
139. 2013 Delivered a **Key Note Address** as a chief guest in a 15 day workshop/short term course on “Sustainable Development in Present Indian Scenario” organized by Baba Hira Singh Bhadhral College of Engineering and Technology, Lehragaga on 9th September, 2013
140. 2013 Delivered a **Plenary lecture** on “Insect Systematic by tracing the history from classical to molecular and also chair a session in 12th International conference on Vector and vector borne diseases organized by Department of Zoology, Mohanlal Sukhdaiya University, Udaipur from 16-18th September, 2013.

141. 2013 Presented a **Lead talk** on “The effect of Global warming and Climate change on insect diversity with special emphasis on pests and vectors” in the national conference on status and conservation of biodiversity in India with a special reference to Himalaya at University of Kashmir.
142. 2013 Presented an **Invited Talk** to college lecturers on 16th October, 2013 in a refresher course organized by Punjabi university, Patiala.
143. 2013 Presented an **Invited Talk** to NSS officers/ Lecturers in a workshop organized by NSS department of Punjabi University Patiala on 12th November, 2013.
144. 2013 Presented a **Lead Talk** on recent Disasters in the Globe in a one week workshop on Disasters management organized by Academic staff college, Punjabi University, Patiala on 16th November, 2013
145. 2013 Presented two lectures in a **Disasters management Workshop** held at Shri Guru Jandeshwar University, Hisar on 18th November, 2013.
146. 2013 Delivered an **Invited Talk** on toxic trails on India at Department of Biosciences, Himachal Pradesh University, Shimla on 24th November. 2013
147. 2013 Delivered a **Plenary lecture** on Religion and Environmental Sciences with references from Shri Guru Granth Sahib in the Department of Shri Guru Grath Sahib Studies in Punjabi University, Patiala on 11th December, 2013.
148. 2013 Delivered a **Key Note Address** on a workshop on Social insects organised by Department of Zoology and Environmental Sciences Punajbi University Patiala. An lead talk on Impact on climate change on insect pest and vectors on this day in Afternoon session on 17th December, 2013.
149. 2013 Delivered a **Key Note Address** on promotion of Science Inspire Programme held at Shri Guru Gobind Singh Khalasa college Chandigarh.
150. 2013 Presented a **Motivational lecture/ Lead talk** in Inspire Programme organized by D.A.V. college Chandigarh on 10th, January, 2014.
151. 2014 Delivered **Key Note Address** in a national conference on emerging Horizon in science and Technology in Section B at Shri Guru Granth Sahib World University at Fatehgarh Sahib on 17th January, 2014
152. 2014 Delivered a **Lead Talk** on Environmental issues to 400 NSS volunteers in NSS Convention held at Punjabi University Patiala.
153. 2014 Delivered a **Key Note Address** as chief guest in a workshop on social insects for school lectures, organized by department of Zoology, Guru Nanak Dev University, Amritsar on 27 January, 2014

154. 2014 Delivered an **invited talk** on “Environmental issues and human health” in a refresher course organised by Academic staff collage, Punjabi University, Patiala on 19th February, 2014
155. 2014 As **Convener-cum-Organizing Secretary** organized an International conference on entomology from February 21-23, 2014 at Punjabi University, Patiala.
156. 2014 Presented an **invited talk** on “Biodiversity and conservation” in a national conference on “Perspective in plants and environmental Sciences” held in GNDU, Amritsar from 11-12 March 2014.
157. 2014 Delivered an **invited talk** on “Changing environment, global warming and human health” in the Department of Zoology at NEHU, Shillong on 27th March, 2014.
158. 2014 Delivered an invited lecture in 41st Refresher Course in Refresher Course in Research Methodology on Bioresources and Sustainable Utilization organized by Academic Staff College, Punjabi University, Patiala on 19th April, 2014.
159. 2014 Delivered an invited lecture on Human Health and Vector Borne Diseases in 20th Orientation Course organized by Punjabi University, Patiala on 24th April, 2014.
160. 2014 Delivered an inaugural address to the teachers in a training program entitled as Teacher training on Social Insects organized by IISER, Mohali, Chandigarh on 13th May, 2014.
161. 2014 Delivered keynote address on International Biodiversity Day at Science City, Kapurthala on 21st May 2014.
162. 2014 Delivered an inaugural address to the teachers in a training program entitled as Teacher training on Social Insects organized by IISER, Shimla on 22nd May, 2014.
163. 2014 Delivered an inaugural address to the teachers in a training program entitled as Teacher training on Social Insects organized by IISER, Jammu an 28th May, 2014
164. 2014 Delivered two lectures on current issues of Biodiversity and Environmental Challenges in a Summer School for College and University Teachers on 14th June, 2014 organized by Academic Staff college, Guru Nanak Dev University, Amritsar.
165. 2014 Delivered two lectures on **Biodiversity and Environment** on 22nd Orientation program organized by Academic Staff College on 18th June, 2014.
166. 2014 Delivered two lectures on 19th June, 2014 in 22nd Orientation program organized by Academic Staff college, Punjabi University, Patiala.
167. 2014 Delivered two extension lectures in Government College, Nabha on Biodiversity and Conservation on 2nd August, 2014.

168. 2014 Delivered extension lectures on Biodeiversity in Public College, Samana on 11th August, 2014.
169. 2014 Delivered an extension lectures on Biodiversity in A.S. College, Khana on 16th August, 2014.
170. 2014 Delivered a lecture on environment issues to the college students in Kamla Nehru College for Women, Phagwara, on 23rd August, 2014.
171. 2014 Delivered a Plenary lecture in an International Annual Conference held at San Ontonia, U.S.A from 28 September to 2nd October, 2014.
172. 2014 Delivered a lead talk on topic entitled as Biodiversity Status Utilization and Impact of challenging Climate Condition held at Babasaheb Bhimrao Amedkar University, Lukhnow from 30-31st October, 2014
173. 2014 Delivered an invited lecture in the conference held at Gurukul Kangri University, Haridwar from 17-19th November 2014.
174. 2014 Delevired a lecture on Biodiversity: Essence of Life on 20th November, 2014.
175. 2014 Delevired a lecture on Environmental degradation, Climate Change and Human Health on 22nd November, 2014.
176. 2014 Delivered a extension lecture in an Orientation course on Topic entitled as **Pawan Guru Pani Pita, Mata Dharat Mahat**, on 5th December, 2014.
177. 2014 Delivered an invited talk in a refresher course on “**Biodiversity and Mankind**” organized by Academic Staff College, Guru Nanak Dev University, Amritsar on 27th December, 2014.
178. 2014 Delivered an invited talk in an orientation course on “**Environment and Health**” organized by Academic Staff College, Guru Nanak Dev University, Amritsar on 27th December, 2014.
179. 2015 Delivered a lead talk on the topic “**A road map for future taxonomic research in Taxonomy**” in the National conference on Animal Taxonomy: Challenges and Prospects held from 13th- 15th February, 2015.
180. 2015 Delivered a lead talk in a district level training and capacity building program at the Baradari gardens, on “**Biodiversity issues and Biological Diversity Act, 2002**” on 24th March, 2015.
181. 2015. Delivered keynote address and an invited talk in Science Motivational programme for students of Meritorious School, Amritsar on 20th April, 2015 at Department of Botany and Environment Sciences, Guru Nanak Dev University, Amritsar.

182. 2015 Delivered a lecture on 22nd April, 2015 in the 24th Orientation Programme organized by the U.G.C. Human Recourse Development Centre, Punjabi University, Patiala on the topic “**Environment and Human Health**”.
183. 2015 Delivered a lecture on 18th May, 2015 in the 25th Orientation Programme organized by the U.G.C. Human Resource development Centre, Punjabi University, Patiala on the topic “**Environment Degradation and Health**”.
184. 2015 Delivered an invited talk on Biodiversity day held at Central University, Bathinda, Punjab on 22nd May, 2015.
185. 2015 Delivered a keynote address on “**Seven billion dreams one Mother planet- Use bio-resources sustainably**” on World Environment Day on 5th June, 2015.
186. 2015 Delivered a lecture on 18th June, 2015 in the 52nd refresher course in the Research Methodology in Physical and Life Sciences organized by the UGC-Human Resource Development Centre, Punjabi University, Patiala on the topic “**Biodiversity- The Essence of Life**”
187. 2015 Delivered two lectures on “**Environment and Biodiversity**” in the U.G.C. Human Recourse development centre of Guru Nanak Dev University, Amritsar in a refresher course on 20th June, 2015
188. 2015 Delivered two lectures on 1st July, 2015 in the 2nd Summer School Course organized by the U.G.C. Human Resource Development Centre, Punjabi University, Patiala on the topics “**Environment Degradation Climate Change and Human Health**” and “**Biodiversity- the Essence of Life**”.
189. 2015 Delivered keynote address at the National training workshop on “**Fauna of Hot-spots-2, Western Himalaya**” held by the Z.S.I., Solan on 24th July, 2015. An invited talk on the taxonomy entitled as “**Taxonomy: Present, Past, Future and Need of the hour**” was also presented on the occasion.
190. 2015 Delivered an invited talk as a resource person for training workshop for Nature guide student volunteers to create awareness about **Wetlands of Punjab** in a State level function of graduate students held at **Science City, Kapurthala** on 31st August, 2015.
200. 2015 Delivered three lectures on different subjects of Entomology in first “SERB School of Insect Biology” held at University of Hyderabad from December 7-21, 2015.
201. 2016 Participated and delivered an invited talk in MKC symposium at JNCASR Bangalore on 7 February, 2016.

202. 2016 Delivered two invited lectures at Govt. Girls College, Sector 42, Chandigarh in Faculty development programme and at DAV college at Chandigarh on 22 February 2016.
203. 2016 delivered an invited talk in National Conference on biodiversity in Bharti Vidhya Peth University, Pune and another extension lecture on Modern college Pune on 24th and 25th February, 2016.
204. 2016. Participated and presented an invited talk in 2nd international conference on new Challenges in Biotechnology in St. John's College, Agra on 27th February, 2016.
205. 2016. Delivered a **keynote address** on **Emerging trends in life Sciences** at DAV College, Dasaua on 11 March, 2016.
206. 2016 Delivered an Invited talk on Environmental issues and human health on 26th March, 2016 at Randheer College, Kapurthala.
207. 2016. Delivered **Plenary lecture** on **Parlance of Mosquito Systematic from classical to Molecular: a long journey** in a National Conference in Central University of Kerala, Kasargod on 29 March 2016.
208. 2016. Delivered an invited talk to NEHU students on Insects and Environment on 7th April 2017.
209. 2016 Organized International Day on Biodiversity day as organizing secretary on 26th May, 2016 in Punjabi University, Patiala.
210. 2016. Delivered an invited talk on the Health of Soil, Animal, human and Environment in Context of Punjab in a workshop on Sustaining Botanical pesticides through innovation and enterprising development at IIM, Ahemdabad from 25-27 May, 2016.
211. 2016. Delivered a **Lead talk** on Lepidoptera and chaired a session at **Centenary celebrations** of Z.S.I., Kolkata from June 30 to July 2, 2016.
212. 2016. Organized **International day for Biological Diversity- 2016** in Punjabi University, Patiala as Nodal Officer, Centre for Swatch Bharat Swasth Bharat on 22nd May, 2016.
213. 2016. Delivered a **plenary lecture and chaired a session** in 9th national conference on Arthropodology at **Sir Ronald Research Institute** at Osmania University, Hyderabad from August 20-21, 2016.
214. 2016. Delivered an invited talk on biodiversity Conservation at Kamla Nehru College for Women, Phagwara on August 29, 2016.

215. 2016. Delivered a keynote address on **Ozone Day** on 16th, September, 2016 at MDU Rohtak.
216. 2016 Organized 2nd DST-SERB School in Insect Biology as **Course Director and Coordinator** from 1-15th October, 2016. Delivered three **Plenary talks** on **taxonomy, Importance of Insects and Role of Global Warming and Climate change on insect pests and vectors.**
217. 2016 Delivered keynote address in Inspire Internship camp at Shanti Devi Mehla College, Dinanagar, Gurdaspur on 25th October, 2016.
218. 2016 Delivered Keynote address in **National Conference on Evolving New Horizons of Zoological Sciences in Human Welfare** from November 22-24, 2016.
219. 2016 Organized an International Conference on Entomology as **Convener** in Punjabi University, Patiala from December 3-5, 2016.
220. 2016 Delivered an Invited talk on **Environment degradation** in Dolphin College, Fatehghar sahib on 11th December 2016.
221. 2016. Delivered a Keynote address on **Science as a living reality** in an Inspire camp at KCW College Sidwan Khurad on 26 December, 2016.
222. 2017. Delivered a **Plenary lecture and chaired a session** on Mosquito Systematic in International Conference at Udaipur from January 9-11, 2017.
223. 2017. Delivered an **Invited lecture** on **Environment issues and Challenges** in an Inspire camp at DAV College, Chandigarh on 28th January, 2017.
224. 2017 Delivered **Plenary lecture and Chaired a session** in 13th Conference on Vector and Vettore Borne Diseases at Central university of Tamil Nadu from February 27th to 1st March, 2017.
225. 2017 Delivered **keynote address** on "**Sustainable Agriculture**" in Rashtrapati Bhawan on 9th March, 2017.
226. 2017 Organized National conference as **Organizing sectary** on "Man and Environment" in Punjabi University, Patiala from March 10-11, 2017.
227. 2017 Delivered **keynote address** on the topic entitled as "Combating Desertification, Land degradation and drought" in a workshop held at Khalsa college, Patiala, on 26th March, 2017.
228. 2017 Delivered invited lectures to IISER students on Conservation of Biodiversity on 31st March at Mohali, Punjab.

229. Delivered an invited talk on 22 May, 2017 on Biological Diversity to celebrate **International day for Biological Diversity-2017** in the Department of Life Sciences, Choudary Devi Lal University, Sirsa.
230. Delivered an invited talk as Chief Guest at Baba Farid Group of Institutions, Bathinda to celebrate **Environment Day** on 5 June, 2017.
229. Delivered two invited lectures in the IV Summer School on UGC-Human Recourse Development Centre on 3 July, 2017 on the theme of Biodiversity and Environmental Degradation.
230. Delivered an invited lecture in the IV Summer School organized by UGC-Human Recourse Development Centre on 6 July, 2017 on the theme of Insects and Environment.
231. Invited as Chief Guest and delivered an invited lecture in Hans Raj Mahila Maha Vidyalaya on 23rd August, 2017 to create awareness about mosquito borne diseases on account of celebrations of Mosquito Day. A workshop was also held during this occasion.
232. **Chaired two technical sessions** in XII Joint Annual Conference of Indian Society for Malaria and Other Communicable Diseases held at AFMC, Pune from September 1-3, 2017.
233. **Organized National Workshop** on Order Lepidoptera In the UGC-Human Resource Development Centre from September 20-22, 2017.
234. **Delivered an invited talk in 7th International congress of The Society of Vector Ecology held at Palma de Mallorca, Spain from October 1-6, 2017.**
235. **Delivered an invited talk** on Environmental issues in a refresher course of Chemistry organized by UGC- Human resource development centre on 13th October, 2017.
236. Delivered four invited talks in the DST-SERB School of Insect Biology in Kozhikode, Kerala from October 22-25, 2017.
237. **Chaired** a Technical session on Vector borne diseases and delivered a **Plenary lecture** in a National conference on Medical Arthropodolgy held at Asutosh College, Kolkata from 11th-12th December, 2017.
238. Delivered 5 Extension Lectures in UGC-Human Recourse Development Centre in Orientation Course, Research Methodology Course and Winter School during the month of November & December 2017.
239. Delivered an invited lecture on 11th January 2018 in Skill Development Workshop for college teachers in the Department of Zoology, Jammu University, Jammu.

240. Delivered an invited talk on Biodiversity and Conservation in the Department of Environment Sciences on 17th February 2018 at Choudhary Devi Lal University, Sirsa.
241. Delivered an invited talk during the Science Day celebrations on 28th February 2018 in the Department of Journalism and Communications, Punjabi University, Patiala.
242. Delivered keynote address during the celebrations of International Day for Biological Diversity on 22nd May 2018 at Science City, Kapurthala.
243. Delivered two extension lectures as resource person in the 36th Orientation Programme of HRDC, Punjabi University, Patiala on 24th and 28th May, 2018.
244. Delivered **keynote address** on Environment Degradation and Human Health during celebrations of Environment Day on 7th June 2018 in Punjabi University, Patiala.
245. **Delivered keynote address and chaired a session in an International Conference on Ecology held at Kastomonu University, Turkey** from June 19-23, 2018.
246. Delivered two invited talks as resource person in a refresher course organized by Department of Biosciences at HRDC, H.P University, Shimla on September 8, 2018.
247. Delivered **keynote address** as chief guest on Biodiversity Issues in India in Shri Guru Teg Bahadur Khalsa College, Anandpur Sahib on 1st October, 2018.
248. Delivered two extension lectures as resource person in the 37th Orientation Programme of HRDC, Punjabi University, Patiala on 19th and 20th October, 2018.
249. Delivered an invited talk on Environmental Psychology in a refresher course conducted by Psychology Department at HRDC, Punjabi University, Patiala on 22nd October, 2018.
250. Delivered **keynote address** and **chaired technical session** on Vector-Borne and Zoonotic Diseases in 11th National Conference of Medical Arthropodology held in D.A.V (PG) College, Dehradun from October 26-27, 2018.
251. Delivered **keynote address** as chief guest in a Multi Disciplinary National Seminar on Global Environment and Social Responsibility held in Hindu Girls College at Jaghdhari, Yamunanagar on October 30-31, 2018.
252. Delivered a lead talk in an National Conference on Environmental changes and its Impact on Faunal Diversity on Indian Agro-ecosystems at Punjab Agriculture University, Ludhiana from November 19-20, 2018.
253. Delivered an Extension Lecture in the Research Methodology course conducted by HRDC, Punjabi University, Patiala on 4th December, 2018.

254. Delivered two extension lectures on Environment and Biodiversity in a Refresher course conducted by Botany Department at HRDC, Punjabi University, Patiala on 6th December, 2018.
255. Participated, delivered a talk and **chaired** a technical session in the **Asian Lepidoptera Conservation Symposium-5 (ALCS-5) in Hongkong University and Chinese University of Hongkong** from December 13-15, 2018.
256. Delivered two extension lectures as resource person in the 38th Orientation Programme of HRDC, Punjabi University, Patiala on 7th January, 2019.
257. Delivered a **Plenary lecture and chaired a technical session** on vector control in 14th International Conference on Vectors (ICOV-14) at Bhuvneshwar from February 11-13, 2019.
258. Delivered two invited lectures in a refresher course organized by the Department of Zoology at HRDC, Kurukshetra University on 9th February, 2019.
259. Delivered a **Plenary lecture** and chaired a session in the first **International Conference of Indian SOVE (Society of Vector Ecology)** in Goa from 13th to 16th February, 2019.
260. Delivered keynote address in a State level seminar on Green Technology for Sustainable Development on 22th February, 2019 at DAV College for Girls, Karnal.
261. Delivered two extension lectures as resource person in the 38th Orientation Programme of HRDC, Punjabi University, Patiala on 2nd March, 2019.
262. Delivered an invited talk on Environment issues in Punjab in the auditorium of Punjab Language Department on March 8, 2019. The programme was presided by Mrs. Parneet Kaur, MP, Patiala.
263. Delivered **keynote address** in a National Conference on GENDER AND CLIMATE CHANGE ADAPTATION at Mata Gujri College, Fatehgarh Sahib on 29th March, 2019.
264. Delivered two invited lectures in a **Summer School** at HRDC, Guru Nanak Dev University, Amritsar on 20th June, 2019.
265. Delivered keynote address on **“Environmental Pollution”** in a conference organized by Patiala Agrawal Intellectual Forum (Regd.), Patiala on 26th July, 2019.
266. Participated in a **workshop to set curriculum of various M.Sc. classes** in a selected committee of nine professors from India at Jammu University from August 19-23, 2019.

267. Delivered an invited lecture in a **Refresher course** organized by HRDC, Himachal Pradesh University, Simla on 24th August, 2019.
268. Delivered four extension lectures and conducted practical classes of M.Sc. **Students as** visiting Professor at **Wildlife Institute of India**, Dehradun from September 3-4, 2019.
269. Delivered keynote address on “**Taxonomy: Past, Present and Future**” in National Conference organized by Dolphin Institute, Dehradun in Collaboration with ZSI Regional Center, Dehradun and IARI from September 25- 29, 2019.
270. Organized “**6th Asian Lepidoptera Conservation Symposium**” in Collaboration with Zoological Survey of India (Kolkata) from September 17- 21, 2019. Chaired technical sessions and presided over the proceedings.
271. Delivered two lectures on “**Environmental Issues**” in a **Refresher course** organized by HRDC, Punjabi University (Patiala) on 19th October, 2019.
272. Delivered **keynote address** as a **chief guest** in two days “**National Conference on Water**” organized by the HRDC, Guru Nanak Dev University, Amritsar on 30th October, 2019.
273. Delivered a **leading talk** on “**Biodiversity and Sustainable Development**” organized by Aligarh Muslim University, Aligarh on 2nd November, 2019.
274. Delivered extension lectures on “**Environmental Issues**” in a **Refresher course** organized by HRDC, Punjabi University, Patiala on 7th November, 2019.
275. Delivered a talk as a **Distinguish speaker** on “**Environmental Degradation and Human Health**” in “**International Wellness Conference-2019**” organized by Chhatrapati Shahu Ji Maharaj University, Kanpur from November 8-10, 2019.
276. Delivered a **leading talk** on “**Mosquito Vectors and Disease**” and **chaired** technical Session in “**13th Annual Conference of Indian Society for Malaria and Other Communicable Diseases (ISMOCD)**” on theme “**Combating Vector Borne Diseases Need for Paradigm Shift**” at Kochi held from 29th November- 1st December, 2019.
277. Delivered a lecture on “**Environmental Issues and Challenges**” in a **Refresher course** organized by HRDC, Punjabi University, Patiala on 13th December, 2019.
278. Delivered an invited lecture on “**Gender and Climate Change Adaptation**” in “**Faculty Development Program**” organized by KMV, Jalandhar on 16th December, 2019.

279. Delivered plenary lecture on **“Insects and Mankind”** and **chaired** technical session in a **“14th JK Science Congress”** organized by Jammu University on 22nd December, 2019.
280. Delivered two extension lectures in a **Refresher Course** organized by HRDC, Punjabi University, Patiala on 10th January, 2020.
281. Delivered two lectures as a **Resource Person** on **“Biodiversity and Environment”** in a **Refresher course** organized by HRDC, Guru Nanak Dev University, Amritsar on 14th February, 2020.
282. Delivered an invited talk to the families of **Jawans and Army Officers** organized by **Army Contentment**, Patiala on 22nd February, 2020.
283. Delivered **keynote address** in a National Workshop on **“Environmental Toxicity and Human Health”** organized by **Hindu Girls College**, Jagadhari (Punjab) on 19th February, 2020.
284. Delivered an invited talk on **“Lepidoptera diversity of Indian Himalayan”** in a National Seminar on **“Faunal Diversity of Indian Himalayan Landscape”** organized by **ZSI**, Regional Center, Solan on 26th February, 2020.
285. Delivered two extension lectures in a **Refresher course** organized by the Department of Environment and Engineering, **Guru Jandheshwar University** of Science and Technology, Hisar on 27th February, 2020.
286. Delivered an inspirational talk in **“Science Conclave, 2020- Kindle youth towards Basic Sciences for Human Well- Being”** organized by **Kurukshetra University**, Kurukshetra on 3rd March, 2020.
287. Delivered a **lead talk** in a virtual seminar on **“Role of Biodiversity during COVID-19”** organized by **P.G. Government College for Girls** (Chandigarh) on 22nd May, 2020.
288. Delivered **keynote address** in webinar on **“World Environment Day, 2020”** on the theme **“Pavan Guru Pani Pita, Mata Dharat Mahat”** organized by Guru Granth Sahib University, Fatehgarh Saheb on 5th June, 2020.
289. Delivered **lead talk** in a two day National conference on **“Post Covid Opportunities and Challenges”** in **“Zoological Sciences”** organized by Department of Zoology, Kurukshetra University, Kurukshetra on 9th June, 2020.
290. Delivered an invited talk on 21st July, 2020 on **“Moths of India”** concerning 4 books published by Dr. Jagbir Singh and Co-authors to celebrate **“Moth Week”** from July 18-26, 2020.

291. Delivered an invited talk on **“Insects and Mankind”** in a National webinar on **“Faunal Diversity of India”** organized by ZSI, NRC, Dehradun on 25th August, 2020.
292. Delivered **keynote address** on **“Environmental Degradation and Human Health”** in an International virtual conference on **“Recent Trends & Innovations in Science, Engineering and Social Sciences”** organized by Senthil Research Advocacy Forum V.H.N. Senthikumara Nadar College (Tamil Nadu) on 4th September, 2020.
293. Delivered an invited talk on **“Role of Teachers”** as a **Chief Guest** in a function organized by Khalsa College, Patiala on Teacher's Day i.e 5th September, 2020.
294. Delivered an invited talk on **“Biodiversity: Essence of Life”** in a National webinar on **“Apiculture, Global Climate Change and Sustainable Agriculture Production”** organized by ZSI, NRC, Dehradun on 23rd September, 2020.
295. Delivered **keynote address** in a National webinar on **“Environmental Degradation and Human Health”** organized by Patel Memorial National College, Rajpura (Punjab) on 12th October, 2020.
296. Delivered **keynote address** in a webinar on **“Gender and Climate Change Adaptation”** organized to celebrate **International Science Day** by Khalsa College for Women, Sidhwan Khurd (Ludhiana) on 10th November, 2020.
297. Delivered a **lead talk** on **“Environmental issues and challenges”** organized by HRDC, Amritsar on 25th November, 2020
298. Delivered **keynote address** on **“Environmental Degradation and Human Health”** in International webinar on Science, **“Technology and Environment: Current Scenario and Future Perspectives”** organized by Career Point University on 28th November, 2020.
299. Delivered **keynote address** in webinar on **“Gender Adaptation and Climate Change”** organized by **P.G. Department of Zoology, D.A.V. College, Jalandhar** on 17th December, 2020
300. Delivered an **invited lecture** on **“Impact of Climate change on Insect Pests and Vectors”** in an **International webinar** on **“Parasites and Impact of Covid-19 Environment”** organized by University of Allahabad, Prayagraj on 19th December, 2020.
301. Delivered an **invited lecture** in a webinar on **“Biodiversity and Conservation”** organized by Lovely Professional University on 3rd April, 2021.
302. Delivered a radio talk on **Malaria** on 25th April, 2021.
303. Delivered a **keynote address** in a national webinar organized by Patel Memorial National College, Rajpura on 26th April, 2021.

304. Delivered an **invited talk** in a webinar **entitled “Critical Role of Biodiversity in the Sustainable Development”** on the occasion of International Biodiversity Day organized by Shanti Devi Arya Mahilla College, Dinanagar, Punjab on 20th May, 2021.
305. Delivered a **keynote address** in a webinar organized by Babbar Akali Memorial Khalsa College, Garhshankar during “World Environment Day” on 5th June, 2021.
306. Delivered an **invited talk** in a webinar organized by Chaudhary Devlal University, Haryana. on “**World Environment Day**” on 5th June, 2021.
307. Delivered a keynote address in a webinar on “**Positivity unparalleled during Covid19**” organized by Bhagalpur and Munger University, Bihar on 8th June, 2021.
308. Delivered an **invited talk** to Entomology students at PAU, Ludhiana on topic entitled “**Impact of Global Warming and Climate Change on Insects Pest and Vectors**” on 30th June, 2021.
309. **Participated and delivered a talk** in a National webinar on “**Moth week**” organized by ZSI, Kolkata on 20th July, 2021.
310. Delivered an invited talk in a National webinar on “**Biodiversity in connection with World Nature Conservation Day**” on 28th July, 2021.
311. Delivered an online Guest lecture on “**World Mosquito Day**” to Zoology students of PAU, Ludhiana on 20th August, 2021.
312. Delivered a keynote address as Chief Guest in Swami Vivekanand Group of Institutions on the topic entitled “**Biodiversity: Essence of Life**” on 26th October, 2021.
313. Delivered a keynote address as Chief Guest to 1000 students in a state seminar on the subject of “**Save mother Earth**” at Sidhwan Group of Institution, Ludhiana on 30th October, 2021.
314. Delivered an invited talk to **Entomology students** at PAU, Ludhiana on topic the entitled “**Impact of Biodiversity for the Welfare of Mankind**” on 10th November, 2021.
315. Delivered an **invited talk** on Mosquito Systematics in virtual National Conference on “**Medical Arthropodology**” organized by Society of Medical Arthropodology (SOMA) on 27th November, 2021.
316. Delivered **Two invited lectures** in the Department of Environmental Sciences at MDU, Rohtak on “**Energy Conservation and Future Perspectives**” for Environmental students on 14th December, 2021.
317. Organized as a **Convener** of Two-day National Conference on ‘**Strategies and**

- Solutions to Achieve Clean Air’ as President, Punjabi University Environment Society** in collaboration with **Punjab Pollution Control Board** from 24th-25th Dec. 2021 at Patiala.
318. Delivered a lead talk during Science Week Festival Celebrations as ‘**Vigyan Sarvatra Pujyate**’ at Punjabi University Patiala on 22nd Feb, 2022.
 319. Participated and delivered a talk besides discussing ‘**District Environment plans in Punjab**’ Organized by **Kheti Virasat Mission** on 24th Feb, 2022.
 320. Delivered two virtual lectures in a **refresher course** on ‘**Disaster Management and Environmental Awareness**’ conducted by the UGC-Human Resource Development Centre (HRDC), Guru Nanak Dev University, Amritsar on 1st March, 2022.
 321. Delivered a **lead talk** and **Chaired** technical session in a one-day conference on ‘**Recent Advances in Science and Technology for Sustainable Development**’ organized by DAV Bathinda on 5th March, 2022.
 322. Delivered an invited talk on ‘**International Women day**’ in a refresher course for College and University teachers organized by HRDC, Punjabi University, Patiala on 8th March, 2022.
 323. Delivered a **Keynote address** to students of KVA, DAV College for Women, Karnal in connection of the ‘**Earth Day**’ on 22nd April, 2022.
 324. Delivered two lectures as a **Chief guest** in connection with ‘**Celebration of Biodiversity Day**’ organized by the students of Journalism and mass communication, Punjabi University Patiala held on 24th and 25th May, 2022.
 325. Delivered an **invited talk** to the students of **Library science, Punjabi University, Patiala** in connection with **Celebration of Environment Day** on 2nd June, 2022.
 326. Delivered **Keynote address** on ‘**Plastics and Environment degradation**’ organized by Dept. of Botany and Environmental Sciences in collaboration with Punjab Pollution Control Board at Sri Guru Granth Sahib World University, Fatehgarh Sahib on 7th June, 2022.
 327. Delivered **Key note address** to PCCF’s, Conservators and DFO’s at HFRI, Simla in one-week compulsory training course for **IFS Officers** on 9th June, 2022.
 328. Delivered **two lectures** to university and college teachers in an orientation course organized by **HRDC, Punjabi University, Patiala** on 12th July, 2022.
 329. Delivered **Keynote address** as a **resource person** in one day workshop on ‘**Essentials for establishing Butterfly Park**’ at Zoological Park, organized by Dept. of Zoology, University of Jammu on 20th July, 2022.
 330. **Chaired** the departmental Proceedings of HFRI, Shimla in interactions with the

- Scientists** of the institute through virtual mode on 29th August, 2022.
331. Delivered **Keynote address** and Chaired a technical session in two day National Conference entitled **‘Role of Science and Technology in Environmental Conservation and Sustainable Development’** organized by Department of Biosciences & HPU Biological Society, Himachal Pradesh University in Collaboration with **NITI Aayog, Govt. of India** from 23rd – 24th Sep, 2022.
 332. Delivered an invited talk on **‘World Environmental Health Day’** organized by DAV College, Jalandhar on 26th, Sep, 2022.
 333. Addressed the gathering on the occasion of **National Dialogue to frame indigenous Narrative of Environment** At Gurudwara Ber Sahib Sultanpur Lodhi, Kapurthala on 3rd Sep, 2022.
 334. Delivered an invited two **Lectures** to the University and College teachers in a refresher course organized by HRDC, Punjabi university, Patiala on 16th and 23rd Nov, 2022.
 335. Delivered a lead Talk and Chaired a technical session in 15th International Conference of Medical Arthropology on **‘Control of Malaria and other Vector borne and Zoonotic diseases: Challenges and Opportunities in Implementation Research’** Organized by Osmania University, Hyderabad in collaboration with Society of Medical Arthropology (SOMA) from 12th-14th Dec, 2022.
 336. Delivered two lectures to **Scientists, Scholars & Students of VCRC, Pondicherry** in Public Health Course on 17th and 18th Dec, 2022.
 337. Delivered a Lecture to the University and College teachers in a refresher course organized by HRDC, Punjabi university, Patiala on 27th Jan, 2023.
 338. Delivered **Second Prakash Memorial lecture** organized by Gurukul Kangri University, Haridwar in a virtual mode on 28th Jan, 2023.
 339. **Chaired** a Plenary Session of Punjab Science Congress organized by Sri Guru Granth Sahib World University, Fatehgarh Sahib on 9th Feb, 2023.
 340. **Chaired** a technical session and Delivered a **Plenary lecture** in the 15th Conference on Vectors and Vector Borne Diseases at Goa University, Goa from 15th 17th Feb, 2023.
 341. Delivered a **Keynote address** during the **Celebration of World Sustainable Energy Day** at Dept. of environmental Sciences, MDU, Rohtak on 27th Feb, 2023.
 342. Delivered two lectures in National Conference on **‘Science and Technology for Sustainable future’** organized by Department of Environmental Sciences, MDU, Rohtak on 28th Feb, 2023.
 343. Delivered an **invited talk** in an **International Conference i.e., ISOVECON-2023** held at VCRC, Pondicherry from 13th-16th March, 2023.

LIST OF NEW GENERA AND NEW SPECIES DISCOVERED:



New genera: 17

- 1) *Arctelene* (Kirti & Gill, *Oriental Insects*, Vol. 42: 359-365, 2008)
- 2) *Dubatulova* (Kirti, Singh & Joshi, *Tinea*, 23 (1): 41-46, 2014)
- 3) *Indiania* (Kirti, Singh & Joshi, *Tinea*, 23 (1): 41-46, 2014)
- 4) *Neoaloo* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1)
- 5) *Kailasha* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1)
- 6) *Barsochrista* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 7) *Neoeugoa* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 8) *Pseudoadites* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 9) *Pseudobarsine* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 10) *Tigricollis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 11) *Neobotyodes* (Singh, Kirti, Chandra, Singh & Ranjan 2019; *Zootaxa* 4623 (2): 387–395)
- 12) *Caldubotys* (Singh, Kirti, Chandra, Singh & Ranjan; *Zootaxa* 4623 (2): 387–395)
- 13) *Teuloma* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 14) *Parvuspina* (Singh, Kirti & Datta, 2019; *Zootaxa* 4686 (1): 145–150)
- 15) *Pseudosacada* (N. Singh, Kirti & Ranjan, 2020 (Pyrilidae), *Zootaxa*, 962: 139- 163)
- 16) *Suhela* (N. Singh, Ranjan, Kirti & Chandra, 2022, SHILAP)
- 17) *Atkinomus* (Ranjan, N. Singh & Kirti, 2023, *Zootaxa* 5222 (4): 385–394)



New species: 129

- 1) *Patania menoni* (Kirti & Gill, 2007, *J. Ent. Res.*, 31 (3): 265-275)
- 2) *A. uncodex* (Kirti & Gill, 2008, *Oriental Insects*, Vol. 42: 359-365)
- 3) *A. rufescens* (Kirti & Gill, 2008, *Oriental Insects*, Vol. 42: 359-365)
- 4) *Schistophleps pentoveinlata* (Kirti & Gill, 2008, *Oriental Insects*, Vol. 42: 379-384)
- 5) *S. hyalinata* (Kirti & Gill, 2008, *Oriental Insects*, Vol. 42: 379-384)
- 6) *Satara cornutiata* (Kirti & Gill, 2008, *Tinea* 20 (3): 159-162)
- 7) *Thyrgorina malshejensis* (Kirti & Gill, 2008, *Entomon* 33 (1) : 53 – 64)
- 8) *Garudinia pseudosimulana* (Kirti & Gill, 2009, *Journal of Asia-Pacific Entomology* 12: 9-13)
- 9) *G. conjuncta* (Kirti & Gill, 2009, *Journal of Asia-Pacific Entomology* 12: 9-13)
- 10) *Lyclene kishidai* (Kirti & Gill, 2009, *Acta zoologica cracoviensia* 52 B (1-2): 109-118)
- 11) *L. uncalis* (Kirti & Gill, 2009, *Acta zoologica cracoviensia* 52 B (1-2): 109-118)

- 12) *L. hollowai* (Kirti & Gill, 2009, *Acta zoologica cracoviensia* 52 B (1-2): 109-118
- 13) *L. goaensis* (Kirti & Gill, 2009, *Acta zoologica cracoviensia* 52 B (1-2): 109-118
- 14) *Spilarctia coorgensis* (Kirti & Gill, 2010, *Journal of threatened taxa* 2 (6): 948 – 960
- 15) *Cyana pseudoeffracta* (Kirti, Joshi & Singh, 2013, *J. of Che. Bio. Phy. Sci.*, 3(2): 1301-1310)
- 16) *Disasuridia fangae* (Kirti, Joshi & Singh, 2013, *Tinea*, 22 (4): 269-271)
- 17) *Conilepia hunliensis* (Kirti, Singh & Joshi, 2013, *Dtsch. Entomol. Z.*, 60 (2): 231-234)
- 18) *Capissa alba* (Kirti, Singh & Joshi, 2014, *Ann. Zool.*, 64(1) : 45-49)
- 19) *Oeonistis vithurensis* (Singh & Kirti, 2014, *J. of Entomol. Res.*, 38 (3), 227-230)
- 20) *Neoduma valvata* (Kirti, Joshi & Singh, 2014, *Journal of Threatened taxa*, 6 (12): 6568-6570)
- 21) *Teulisna unicornuta* (Kirti, Joshi & Singh, 2014, *Acta Zoologica Cracoviensia*, 57 (1-2): 11-19)
- 22) *Zadadra neodistorta* (Joshi, Kirti & Singh, 2015, *Florida Entomologist* 98 (2): 536-540)
- 23) *Zadadra cucullata* (Joshi, Kirti & Singh, 2015, *Florida Entomologist* 98 (2): 536-540)
- 24) *Nealoa pseudoflavimargo* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1.NBI)
- 25) *Cyana bhatejai* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1. NBI)
- 26) *Kailasha gulmargensis* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1. NBI)
- 27) *Lyclene terminospota* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1. NBI)
- 28) *Thysanoptyx pseudotetragona* (Kirti & Singh, 2015, *Arctiid Moths of India*, Vol.-1)
- 29) *Lemyra (Thyrgorina) pseudobimaculata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 30) *Lemyra (Thyrgorina) tawaghatensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 31) *Lemyra (Thyrgorina) collarlis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 32) *Lemyra (Thyrgorina) pseudocollarlis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 33) *Lemyra (Thyrgorina) cernyi* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 34) *Lemyra (Thyrgorina) wokhaensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 35) *Lemyra (Thyrgorina) bucseki* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 36) *Lemyra (Thyrgorina) magnaproteus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 37) *Lemyra (Thyrgorina) spinisinferma* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 38) *Lemyra (Thyrgorina) latauncus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 39) *Lemyra (Thyrgorina) pseudoneurica* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 40) *Lemyra (Thyrgorina) saputarensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 41) *Lemyra (Thyrgorina) pseudoburmanica* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 42) *Lemyra (Thyrgorina) orhanti* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 43) *Lemyra (Thyrgorina) coorgensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)

- 44) *Olepa (Pseudoclavatus) nigerclavatus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 45) *Creatonotos nigergangis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 46) *Basine cornutodeflecta* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 47) *Barsine cacharensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 48) *Barsine rufumdeflecta* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 49) *Barsine devikulensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 50) *Barsine pseudoorientalis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 51) *Barsine cuneorotatus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 52) *Barsine atypicobarsine* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 53) *Barsine fuscobarsine* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 54) *Pseudobarsine bombdilensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 55) *Pseudobarsine nainitalensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 56) *Miltochrista falcihumilis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 57) *Miltochrista neoseriata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 58) *Miltochrista paraseriata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 59) *Miltochrista pseudoseriata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 60) *Miltochrista undunoides* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 61) *Miltochrista pseudolutara* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 62) *Miltochrista neocuneifera* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 63) *Miltochrista pseudoarcuata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 64) *Miltochrista paraarcuata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 65) *Miltochrista cornutochrista* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 66) *Arctelene neouncodes* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 67) *Arctelene patnitopensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 68) *Stigmatophora palliduspalmata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 69) *Adites paraimpilia* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 70) *Adites pseudohilaris* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 71) *Agrisius albafuliginosus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 72) *Agrisius neofuliginosus* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 73) *Katha spinoapex* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 74) *Macotasa tortricula* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 75) *Eugoa bispinuata* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 76) *Aemene spotoptera* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 77) *Cernyia neocretacea* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 78) *Brunia pseudoantica* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)

- 79) *Poliosia pseudoconcolora* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 80) *Tigricollis parapuncticollis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 81) *Wittia kailashi* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 82) *Wittia freinai* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 83) *Wittia neokailashi* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 84) *Teulisna tenebrosus* (Kirti & Singh, 2016, *Moths of India*, Vol.-2)
- 85) *Byrsia neoaurantiaca* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 86) *Microlithosia champhaiensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 87) *Zadadra jatingensis* (Kirti & Singh, 2016, *Arctiid Moths of India*, Vol.-2)
- 88) *Zamarada valvata* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*, NBI)
- 89) *Zamarada gudalurensis* (Kirti, Chandra, Saxena & Singh, 2019; *Geometrid Moths of India*)
- 90) *Cleora ochreatea* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*, NBI)
- 91) *Plutodes digitate* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*, NBI)
- 92) *Ourapteryx furcata* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*)
- 93) *Abraxas neopoliaria* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*, NBI)
- 94) *Abraxas panhalensis* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*, NBI)
- 95) *Abraxas pseudofasciaria* (Kirti, Chandra, Saxena & Singh, 2019, *Geometrid Moths of India*)
- 96) *Abraxas neosylvata* (Kirti, Chandra, Saxena & Singh, 2019,; *Geometrid Moths of India*, NBI)
- 97) *Asthena hunliensis* (Kirti, Chandra, Saxena & Singh, 2019,; *Geometrid Moths of India*, NBI)
- 98) *Toccolosida nigraregina* N. Singh, Kirti & Ranjan, 2019 *Zootaxa* 4656 (1): 189–192)
- 99) *Nadeloides nubilus* (Singh, Kirti, Chandra, Singh & Ranjan 2019; *Zootaxa* 4623 (2): 387–395)
- 100) *Dolgoma xanthoma* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 101) *Teuloma microoblitterans* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 102) *Teuloma neooblitterans* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 103) *Teuloma falsinebulosa* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 104) *Parvuspina tawaghatensis* (Singh, Kirti & Datta, 2019; *Zootaxa* 4686 (1): 145–150)
- 105) *Cyana rudloffii* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 106) *Cyana atlanteia* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 107) *Cyana chrysopeleia* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 108) *Cyana britomartis* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 109) *Cyana dryope* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 110) *M. adelfika* (Volynkin, Singh, Černý, Kirti & Datta, 2020, *Zootaxa*, 4780 (3): 448–470)
- 111) *M. stenoalva* (Volynkin, Singh, Černý, Kirti & Datta, 2020, *Zootaxa*, 4780 (3): 448–470)
- 112) *M. lavides* (Volynkin, Singh, Černý, Kirti & Datta, 2020, *Zootaxa*, 4780 (3): 448–470)

- 113) *M. konta* (Volynkin, Singh, Černý, Kirti & Datta, 2020, *Zootaxa*, 4780 (3): 448–470)
- 114) *Toccolosida ganeshgudiensis* (N. Singh, Kirti & Ranjan, 2020, *Zootaxa* 4816: 101–107)
- 115) *Sacada umtasorensis* (N. Singh, Kirti & Ranjan, 2020, *Zootaxa*, 962: 139–163)
- 116) *Sacada dzonguensis* (N. Singh, Kirti & Ranjan, 2020, *Zootaxa*, 962: 139–163)
- 117) *Miltochrista jarawa* (N. Singh, Volynkin, Kirti & Datta, 2021, *Zootaxa* 4895 (3): 445–450)
- 118) *Aberrasine pangsau* (N. Singh, Kirti & Bisht, 2021, *Zootaxa*, 4950 (2))
- 119) *Teliphasa dodaki* (Ranjan, Singh & Kirti, 2022, *Zootaxa* 5141 (1): 060–070)
- 120) *Teliphasa spinaejuxta* (Ranjan, Singh & Kirti, 2022, *Zootaxa* 5141 (1): 060–070)
- 121) *Termioptycha gnathospina* (Ranjan, N. Singh & Kirti, 2022, *Zootaxa*, 5165 (3): 415–424)
- 122) *Termioptycha almae* (Ranjan, N. Singh & Kirti, 2022, *Zootaxa*, 5165 (3): 415–424)
- 123) *Locastra mizo* (Ranjan, Singh & Kirti, 2022, *Zootaxa*, 5169 (1): 71–78)
- 124) *Miltochrista idiomorfa* (Volynkin, Singh, Černý, Kirti & Datta, 2022, *Zootaxa*, 5169 (1): 71–78)
- 125) *Miltochrista dankana* (Volynkin, Singh, Černý, Kirti & Datta, 2022, *Zootaxa*, 5169 (1): 71–78)
- 126) *Miltochrista etalina* (Volynkin, Singh, Černý, Kirti & Datta, 2022, *Zootaxa*, 5169 (1): 71–78)
- 127) *Atkinomus parilis* (Ranjan, N. Singh & Kirti, 2023, *Zootaxa* 5222 (4): 385–394)
- 128) *Arcanusa confusa* (Ranjan, N. Singh & Kirti, 2023, *Zootaxa* 5222 (4): 385–394)
- 129) *Lamida whitakeri* (Ranjan, N. Singh & Kirti, 2023, *Zootaxa* 5222 (4): 385–394)

➤ **New subspecies: 04**

- 1) *D. rectoides arunachala* (Singh, Kirti, Datta, Joshi & Volynkin, 2019; *Zootaxa* 4683 (1): 033–054)
- 2) *Cyana dohertyi eirene* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 3) *Cyana arama metis* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)
- 4) *Cyana conclusa nicobara* (Singh, Volynkin, Kirti, Datta & Ivanova, 2020; *Zootaxa*, 4738 (1): 001–093)

➤ **New records of genera from India: 13**

- 1) *Satara* Walker (*Tinea*, 20 (3): 159–162)
- 2) *Disasuridia* Fang (*Tinea*, 22 (4): 269–271, 2013)
- 3) *Conilepia* Hampson (*Dtsch. Entomol. Z.*, 60 (2): 231–234, 2013)
- 4) *Pareuchaetes* Grote (*Rec. Zool. Surv. India*, 113 (1): 137–140, 2013)
- 5) *Neoduma* Hampson (*Journal of Threatened Taxa*, 6 (12): 6568–6570, 2014)
- 6) *Cernyia* Bucsek (*Uttar Pradesh J. Zool.* 35(1): 33–35)
- 7) *Veslema* Bucsek (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 8) *Dubatoloviana* Bucsek (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 9) *Bucsekia* Dubatolov & Kishida (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)

- 10) *Wittia* De Freina (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 11) *Byrsia* Walker (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 12) *Microlithosia* Daniel (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 13) *Planovalvata* Dubatolov & Kishida (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)

➤ **New records of species from India: 58**

- 1) *Lyclene rosalia* (Hampson) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 2) *Lyclene semifascia* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 3) *Pareuchaetes pseudoinsulata* Rego Barros (*Rec. Zool. Surv. India*, 113 (1): 137-140, 2013)
- 4) *Olepa duboisi* Orhant (*Rec. Zool. Surv. India*, 113 (1): 137-140, 2013)
- 5) *Macotasa orientalis* (Hampson) (*Rec. Zool. Surv. India*, 113 (1): 137-140, 2013)
- 6) *Poliosia binotata* (Hampson) (*Rec. Zool. Surv. India*, 113 (1): 137-140, 2013)
- 7) *Stictane rectilenea* (Snellen) (*Acta Zoologica Cracoviensia*, 56 (1): 1-7, 2013)
- 8) *Macotasa tortricoides* (Walker) (*J. of Entomol. Res.*, 37 (4): 369-373, 2013)
- 9) *Caeneressa brithyris* (Druce) (*Anim. Syst. Evol. Divers.*, 30 (1): 33-38, 2014)
- 10) *Neoduma kaungtungensis* (Daniel) (*Journal of Threatened Taxa*, 6 (12): 6568-6570, 2014)
- 11) *Ariola triangulifera* Warren (*Int. J. of fauna & Biol. Studies*, 1(6): 131-134; 2014)
- 12) *Asinduma exscripta* Walker (*Int. J. of fauna & Biol. Studies*, 1(6): 131-134; 2014)
- 13) *Hylophilodes dubia* Prout (*Int. J. of fauna & Biol. Studies*, 1(6): 131-134; 2014)
- 14) *Teulisna karena* Cerny (*Acta Zoologica Cracoviensia*, 57 (1-2): 11-19, 2014)
- 15) *Omiza herois* (Prout) (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 16) *Crypsicometa homoema* Prout (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 17) *Biston mediolata* Jiang, Xue and Han (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 18) *Borbacha punctipardaria* Holloway (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 19) *Ephemerophila pallescens* Inoue (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 20) *Paramaxates taiwana* Yazaki (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 21) *Berta apopemta* Prout (*Journal of Applied Biosciences*, 40 (2): 113-116, 2014)
- 22) *Lophoptera hypenistis* (Hampson) (*National Journal of Life Sciences* 11 (1): 57-58)
- 23) *Pseudeustrotia semialba* (Hampson) (*Prommalia*, 3: 100-104)
- 24) *Ochropleura leucogaster* (Freyer) (*Prommalia*, 3: 100-104)
- 25) *Belciades sugii* Kononenko (*Prommalia*, 3: 100-104)
- 26) *Cyana intercoma* Cerny (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 27) *Chamaita nympa* (Moore) (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 28) *Brunia gibonica* (Cerny) (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 29) *Dolgoma recta* Cerny (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)

- 30) *Katha montana* Bucsek (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 31) *Thysanoptyx incurvata* Wileman & West (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi)
- 32) *Gampola fasciata* Moore (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 33) *Gampola sinica* Dubatolov, Kishida & Wang (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi)
- 34) *Padenia duplicana* Walker (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 35) *Churinga metaxantha* Hampson (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 36) *Macrobrochis tibetensis* Fang (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 37) *Macrobrochis albifascia* Fang (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 38) *Hemonia rotundata* Snellen (*Arctiid Moths of India*, Vol.-1. NBI, Minto Rd, N. Delhi, 2015)
- 39) *Nannoarctia tripartita* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 40) *Nebrarctia transversa* (Moore) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 41) *Miltochrista producta* (Černý) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 42) *Adites impilia* Černý (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 43) *Agrisius excellens* Dubatolov & Kishida (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 44) *Neoeugoa humerana* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 45) *Cernyia longpala* (Holloway) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 46) *Dubatoloviana phanga* Bucsek (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 47) *Bucsekia mediumpilosa* Bucsek (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 48) *Teulisna murina* (Heylaerts) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 49) *Planovalvata roseivena* (Hampson) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 50) *Pericyma cruegeri* (Butler, 1886) (*Rec. Zool. Surv. India* : 116 (4) : 323-336)
- 51) *Ischyja hagenii* (Snellen, 1885) (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 52) *Ophisma pallescens* (Walker, [1863] 1864) (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 53) *Serrodes caesia* Warren, 1915 (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 54) *Simplicia bimarginata* (Walker, [1863], 1864) (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 55) *Diomea fasciata* (Leech, 1900) (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 56) *Platyja acerces* (Prout, 1928) (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 57) *Tamba delicata* Prout, 1932 (*Journal of Threatened Taxa*, 9(7): 10480–10486)
- 58) *Tiruvaca hollowayi* Kobes, 1988 (*Journal of Threatened Taxa*, 9(7): 10480–10486)

➤ **Replacement name: 01**

- 1) For *Cyana tripunctata* Rothschild, 1936, replacement name is introduced as *Cyana arorai* Volynkin *et al.*; *Zootaxa*, 4738 (1): 001–093

➤ **Redescription of genera: 10**

- 1) *Costarcha* Hampson (*Acta Zool. Crac.* 51, B (1-2): 145-148, 2008)
- 2) *Thyrgorina* Walker (*Entomon*, 31 (1): 53-64, 2008)
- 3) *Cyclomilta* Hampson (*Ann. Ent.* 28 (1): 9-11, 2010)
- 4) *Nepita* Moore (*Entomon*, 35 (2): 105-109, 2010)
- 5) *Ochrotrigona* Hampson (*J. of Chem. Bio. & Phy. Sciences* 5(1), 498-500; 2014)
- 6) *Tyrcacona* Moore (*Journal of Global Biosciences* 3 (7): 1102-1104; 2014)
- 7) *Vindusara* Moore (*NBU J. Ani. Sci.* 8: 1-3, 2014)
- 8) *Cyclodes* Guenee (*NBU J. Ani. Sci.* 8: 5-7, 2014)
- 9) *Toccolosida* Walker (*Uttar Pradesh J. Zool.* 35 (3): 225-226, 2015)
- 10) *Arctiolepsis* Felder & Felder (*Nat. J. of life Sci.* 12 (2): 185-186, 2015)

➤ **Generic Synonymy: 01**

- 1) *Lyclene* Moore (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)

➤ **Species Synonymy: 07**

- 1) *Olepa toulgoeti* Orhant (*Tinea*, 22 (4): 272-277, 2013)
- 2) *Olepa neumuthi* Orhant (*Tinea*, 22 (4): 272-277, 2013)
- 3) *Cyana detrita* Walker, 1854 = *Lyclene tripunctata* Reich, 1935; *Zootaxa*, 4738 (1): 001–093
- 4) *Cyana obliquilineata* (Hampson, 1900) = *Cyana baolini* Fang, 1992; *Zootaxa*, 4738 (1): 001–093
- 5) *Cyana gelida gelida* (Walker, 1854) = *Lithosia alborosea* Walker, 1864; *Zootaxa*, 4738 (1): 001–093
- 6) *Cyana khasiana* Hampson, 1897 = *Chionaema hampsoni* Kaleka, 2003; *Zootaxa*, 4738 (1): 001–093
- 7) *Cyana arama arama* (Moore, 1859) = *Bizone triguttata* Walker, 1869; *Zootaxa*, 4738 (1): 001–093

➤ **Species upgradation from Synonymy: 04**

- 1) *Thyrgorina angularis* (Strand) (*Entomon*, 31 (1): 53-64, 2008)
- 2) *Micraloa punctistriga* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 3) *Cyana linatula* (Swinhoe, 1891), *Zootaxa*, 4738 (1): 001–093
- 4) *Cyana watsoni* Hampson, *Zootaxa*, 4738 (1): 001–093

➤ **Generic Resurrection: 03**

- 1) *Patania* Moore (*J. ent. Res.*, 31 (3): 265-275, 2007)
- 2) *Thyrgorina* Walker (*Entomon*, 31 (1): 53-64, 2008)
- 3) *Coleta* Roepke (*Bionotes*, 13 (4): 157-158, 2011)

➤ **New combinations: 51**

- 1) *Amata georgina* (Butler) (*J. Ent. Res.* 32 (4): 339-344, 2008)
- 2) *Amata cyssea* (Cramer) (*J. Ent. Res.* 32 (4): 339-344, 2008)
- 3) *Amata extensa* (Walker) (*J. Ent. Res.* 32 (4): 339-344, 2008)
- 4) *Spilarctia mona* (Swinhoe) (*Journal of threatened taxa* 2 (6): 948 – 960, 2010)
- 5) *Spilarctia castanea* (Hampson) (*Journal of threatened taxa* 2 (6): 948 – 960, 2010)
- 6) *Lyclene cuneonotata* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 7) *Lyclene conjunctana* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 8) *Lyclene metamelas* (Hampson) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 9) *Lyclene rosalia* (Hampson) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 10) *Lyclene dharma* (Moore) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 11) *Lyclene euprepiodes* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 12) *Lyclene linga* (Moore) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 13) *Lyclene calamaria* (Moore) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 14) *Amata lucina* (Butler) (*J. of Entomol. Res.*, 37 (4): 375-381, 2013)
- 15) *Amata divisa* (Walker) (*J. of Entomol. Res.*, 37 (4): 375-381, 2013)
- 16) *Amata multigutta* (Walker) (*J. of Entomol. Res.*, 37 (4): 375-381, 2013)
- 17) *Caeneressa melaena* (Walker) (*Anim. Syst. Evol. Divers.*, 30 (1): 33-38, 2014)
- 18) *Dubatolova prabana* (Moore) (*Tinea*, 23 (1): 41-46, 2014)
- 19) *Indiania eccentrica* (Meyrick) (*Tinea*, 23 (1): 41-46, 2014)
- 20) *Indiania auriflucta* (Cerny) (*Tinea*, 23 (1): 41-46, 2014)
- 21) *Indiania arcana* (Bucsek) (*Tinea*, 23 (1): 41-46, 2014)
- 22) *Lemyra (Thyrgorina) cornutiata* (Kirti & Gill) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi)
- 23) *Barsine multistriata* (Hampson) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 24) *Barsine dentifascia* (Hampson) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 25) *Miltochrista producta* (Černý) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 26) *Miltochrista arcuata* (Moore) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 27) *Miltochrista obsoleta* (Moore) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 28) *Barsiochrista kishidai* (Kirti & Gill) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 29) *Pseudoadites frigida* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)


- 30) *Neoeugoa humerana* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 31) *Dolgoma brevipennis* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 32) *Tigricollis puncticollis* (Butler) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 33) *Miltochrista rubricans* (Leech, 1890) (*Zootaxa* 4238 (3): 445–450)
- 34) *Miltochrista szetschwanica* (Daniel, 1952) (*Zootaxa* 4238 (3): 445–450)
- 35) *Miltochrista aquila* (Černý, 2009) (*Zootaxa* 4238 (3): 445–450)
- 36) *Miltochrista discisigna* (Moore, 1878) (*Zootaxa* 4238 (3): 445–450)
- 37) *Miltochrista weidenhofferi* (Černý, 2012) (*Zootaxa* 4238 (3): 445–450)
- 38) *Miltochrista unipuncta* (Leech, 1890) (*Zootaxa* 4238 (3): 445–450)
- 39) *Miltochrista carnea* (Poujade, 1886) (*Zootaxa* 4238 (3): 445–450)
- 40) *Miltochrista modesta* (Leech, 1899) (*Zootaxa* 4238 (3): 445–450)
- 41) *Neobotyodes crocopteralis* (Hampson, 1898), comb. nov., *Zootaxa* 4623 (2): 387–395
- 42) *Caldubotys caldusalis* (Walker, 1859), comb. nov., *Zootaxa* 4623 (2): 387–395
- 43) *Neadeloides glaucoptera* (Hampson, 1896) (*Zootaxa* 4664 (2): 285–292)
- 44) *Dolgoma steineri* (Holloway, 2001), comb. nov.; *Zootaxa* 4683 (1): 033–054
- 45) *D. locus* (Bucsek, 2012), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 46) *Teuloma oblitterans* (Felder, 1868), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 47) *T. montanebula* (Holloway, 2001), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 48) *T. nebulosa* (Walker, 1862), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 49) *T. divisa* (Walker, 1862), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 50) *T. setiniformis* (Hampson, 1900), comb. nov. ; *Zootaxa* 4683 (1): 033–054
- 51) *Wittia lucida* (Fang, 2000), comb. nov. ; *Zootaxa* 4683 (1): 033–054

➤ **Resurrection of old combinations: 17**

- 1) *Thyrgorina indica* (Guer) (*Entomon*, 31 (1): 53-64, 2008)
- 2) *Thyrgorina eximia* (Swinhoe) (*Entomon*, 31 (1): 53-64, 2008)
- 3) *Spilarctia bifascia* Hampson (*Journal of threatened taxa*, 2 (6): 948 – 960, 2010)
- 4) *Spilarctia todara* (Moore) (*Journal of threatened taxa*, 2 (6): 948 – 960, 2010)
- 5) *Lyclene congerens* (Felder) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 6) *Lyclene semifascia* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 7) *Lyclene dasara* (Moore) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 8) *Lyclene rubricosa* Moore (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 80(III): 235-249, 2010)
- 9) *Lyclene humilis* (Walker) (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 10) *Lyclene obsolete* Moore (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)
- 11) *Lyclene radians* Moore (*Proc. Nat. Acad. of Sci. India Sec. B: Bio. Sci.*, 83(1): 31-46, 2013)

- 12) *Barsine nubifascia* Walker (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 13) *Miltochrista humilis* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 14) *Miltochrista semifascia* (Walker) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)
- 15) *Miltochrista rubricosa* (Moore) (*Arctiid Moths of India*, Vol.-2. NBI, Minto Rd, N. Delhi, 2016)

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