



**DESHBANDHU COLLEGE  
(UNIVERSITY OF DELHI)  
KALKAJI, NEW DELHI - 110019**

Title	Dr.	First Name	Kamal Kumar	Last Name	Gupta	Photograph
Designation	Associate Professor					
Address	1332, Sector 37, Faridabad 121003					
Phone No Office	0112-6439565					
Residence	0129-4156157					
Mobile	9811822010					
Email	kgupta@db.du.ac.in					
Web-Page	kamalsuyash@gmail.com					
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D.	University of Delhi				1990	
M.Phil.	University of Delhi				1985	
PG	Hansraj College, University of Delhi				1984	
UG	Deshbandhu College, University of Delhi				1982	
<b>Career Profile</b>						
<b>Teaching experience: 28 Yr.</b> Associate Professor: <b>2004- Till date</b> Reader/Selection Grade: <b>2000-2004</b> Senior Lecturer: <b>1996-2000</b> Lecturer: <b>1991-1996</b>						
<b>Research experience: 21 Yr.</b>						
<b>Administrative Assignments</b>						
<b>Teacher in charge, Department of Zoology</b> <ul style="list-style-type: none"><li>▪ May 1, 2015-April 30, 2017 (Two years)</li><li>▪ May 1, 2004-April 30, 2006 (Two years)</li></ul>						
<b>Member, Governing body</b> <ul style="list-style-type: none"><li>▪ June 6, 2001-June 5, 2002</li></ul>						
<b>Member, Departmental Research committee, Department of Zoology University of Delhi</b> <ul style="list-style-type: none"><li>▪ 2015-16</li><li>▪ 2014-15</li></ul>						
<b>Election officer</b> <ul style="list-style-type: none"><li>▪ 2019-20</li><li>▪ 2018-19</li></ul>						

**Placement Cell Coordinator**

- 2018-19
- 2017-18
- 2016-17
- 2015-16
- 2014-15

**Coordinator, Eco club**

- 2017-18
- 2016-17
- 2015-16
- 2014-15

**Advisor, Zoological Society, Department of Zoology**

- 2017-18

**ADMINISTRATIVE COMMITTEES****Secretary Staff Council**

- 2019-20

**Convenor, Internal Assessment Committee**

- 2018-19
- 2019-20

**Convenor, Research and Innovation Committee**

- 2018-19
- 2019-20

**Convenor, Promotion Scrutiny Committee****Member, IQAC**

- 2018-19
- 2019-20

**Member, Institute of Eminence****Convenor, Purchase Committee**

- 2016-17
- 2015-16

**Member, Building and Infrastructure Committee**

- 2015-16

**Convenor, Building and furniture Committee**

- 2014-15
- 2013-14

**Convenor, Admission and Workload planning committee**

- 2011-12

**Deputy Superintendent of Examinations**

- 2011-12

**Co convenor, Admission and Workload planning committee (AWP)**

- 2008-2009
- 2000-01
- 1999-2000

**Deputy Superintendent of Examinations (Practical)**

- 2009-10

- 2008-09

**Convenor, Time table committee**

- 2005-2006

**Convenor, Admission B. Sc. Gr. B**

- 1998-99
- 1997-98

**Member, Building and Furniture Committee**

- 1999-2000

**Member, Garden Committee**

- 1998-99
- 1997-98

**Areas of Interest / Specialization**

**Research Interest**

Insect Plant Interaction, Insect Reproductive Behavior and Physiology, Vector Biology and Management

**Academic Interest:**

Genetics and Genomics, Biotechnology, Cell and Molecular Biology, Entomology, Animal Biodiversity, Animal Behaviour, Reproductive Biology

**Research Guidance:**

**1. Supervision of awarded Doctoral Thesis: 2**

- **Sunil Kayesth:** Influence of Plant Extracts on Survival, Longevity, Growth, Development and Reproductive Bioactivities of *Dysdercus koenigii*. Ph. D., awarded on March 9, 2016
- **Monika Mishra:** Evaluation of the Bio-efficacy of *Thevetia nerifolia* Extracts on the Growth and Development of *Helicoverpa armigera* (Lepidoptera: Noctuidae). Ph. D. awarded on March 4, 2016

**2. Supervision of Doctoral Thesis, under progress: 4**

- Mr. Shailendra Kumar
- Mr. Vijay Kumar Shah
- Ms. Chandni Sharma
- Ms. Ashu Chaudhary

**3. Supervision of M.Sc. dissertation:**

- Payal Gupta 2017. In Silico Determination of Mechanism of Farnesol in *Dysdercus koenigii*. Dissertation submitted to Jamia Milia Islamia. New Delhi

**Publications Profile**

**1. Books/Monographs (Authored):**

Hindi Vishvakosh: Part -3 Vigyan. Kendriya Hindi Sansthan, Agra, Ministry of Human Resource Development, Government of India. ISBN: 978-93-88359-38-2

## 2. **Research papers published in Refereed/Peer Reviewed Journals: 23**

1. **Gupta K. K.**, Kayesth S., Mohd Shazad and Shailendra Kumar. 2019. Implication of mating on oocyte development in red cotton bug, *Dysdercus koenigii* (Fabricius, 1775) (Heteroptera: Pyrrhocoridae). Polish Journal of Entomology. 88(4): 333-348. DOI: 10.2478/pjen-2019-0022
2. Kayesth S., Shailendra Kumar, Mohd Shazad and **Gupta K. K.** 2019. Effects of hexane extract of *Lantana camara* leaves on reproductive bioactivities of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). Acta Ecologica Sinica. <https://doi.org/10.1016/j.chnaes.2019.05.007>
3. Mishra M., **Gupta K.K.**, and Kumar S. 2019. Diminished activity of midgut enzymes in *Helicoverpa armigera* Hübner (Lepidoptera; Noctuidae) larvae induced by dietary stem extracts of *Thevetia neriiifolia*. Journal of Lepidopterist's Society. 73(1): 23-33. doi.org/10.18473/lepi.73i1.a4
4. **Gupta K. K.**, Mohd Shazad and Shailendra Kumar. 2019. Relevance of the Prolonged First Mating in Reproductive Bioactivities of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). Polish Journal of Entomology 88(1): 63-77. DOI: 10.2478/pjen-2019-0005
5. Kayesth S., Shailendra Kumar, Mohd Shazad and **Gupta K. K.** 2019. Effects of *Ocimum sanctum* hexane extract on survival and development of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae) Archives of Phytopathology and Plant Protection. DOI: 10.1080/03235408.2018.1541148
6. Mohd Shazad, **Gupta K. K.**, Kayesth S. and Shailendra Kumar 2018. Sublethal Effects of Ethanol Extract of *Ocimum Sanctum* on Laboratory Bred Population of Dengue Mosquito *Aedes Aegypti* L. (Diptera: Culicidae). Vector Biology Journal. 3(1) [10.4172/2473-4810.1000128](https://doi.org/10.4172/2473-4810.1000128)
7. Mishra M., **Gupta K. K.** and Kumar S. 2018. Growth regulatory and growth inhibitory effects of *Thevetia neriiifolia* stem extracts on *Helicoverpa armigera* (Lepidoptera: Noctuidae). Archives of Phytopathology and Plant Protection. <https://doi.org/10.1080/03235408.2018.1521324>
8. Kayesth S., and **Gupta K. K.** 2018. Impact of *Lantana camara* hexane extract on survival, growth and development of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). Acta Ecologica Sinica. **38(3)**: 187-192 <https://doi.org/10.1016/j.chnaes.2017.12.002>
9. Kayesth, S., Shazad, M., Kumar, S., **Gupta, K. K.** 2017. Effect of ethanol extract of *Catharanthus roseus*, *Ocimum sanctum* and *Lantana camara* on fecundity and fertility of red cotton bug, *Dysdercus koenigii* Fabricius (heteroptera: pyrrhocoridae). Journal of Entomology and Zoology Studies. 5(4): 348-353
10. Kayesth Sunil and **Gupta K. K.**, 2016. An assessment of antifeedant potential and cidal activity of plant extracts on fifth instar nymphs of red cotton bug, *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). Journal of Entomology and Zoology Studies. 4(4): 216-222
11. Monika Mishra, **K. K. Gupta** and Sarita Kumar. 2015. Impact of the stem extract of *Thevetia neriiifolia* (Apocynaceae) on the feeding potential and histological architecture of the midgut epithelial tissue of early fourth instars of *Helicoverpa armigera* Hübner. International Journal of Insect Science, 2015:7 53–60 doi:10.4137/IJIS.S29127

12. Monika Mishra, **K. K. Gupta** and Sarita Kumar. 2015. Impact of stem extract of *Thevetia neriflora* (Apocynaceae) on food consumption and growth of early fifth instars of *Helicoverpa armigera*. Malay Journal of Biosciences, 2(1): 26-35.
  13. Monika Mishra, **K. K. Gupta** and Sarita Kumar. 2014. Impact of stem extracts of yellow oleander, *Thevetia nerifolia* (Apocynaceae) on the feeding potential of IV Instars of gram pod borer, *Helicoverpa armigera* Hübner (Lepidoptera: Noctuidae). International Journal of Advanced Life Sciences 7(3): 408-416.
  14. **K. K. Gupta**, 2004. Influence of mating on mating receptivity and mate selection behaviour of *Dysdercus koenigii* Fabricius. Indian J. Entomol. 66(2): 165-167.
  15. **K.K. Gupta** and S.S. Sehgal. 1997. Mechanism of mate finding and recognition in mating behaviour of Red cotton bug. Bull. Entomol. 38:18-22.
  16. **K.K. Gupta** and J.R. Gandhi 1996. Foraging strategies and feeding preference of *Lygaeus militaris* Fabricius (Het: Lygaeidae) on certain host plants. Indian J. Entomol. 337-341.
  17. **K.K. Gupta** and S.S. Sehgal, 1995. Influence of multiple mating on reproductive success of *Dysdercus koenigii* Fabricius. Shashpa 2 (1): 33-41.
  18. **K.K. Gupta** and J.R. Gandhi, 1991. Certain factors governing utilization of dietary constituents in *Lygaeus militaris* Fabricius (Heteroptera: Lygaeidae). J. Adv. Zool. 12 (2): 104-111.
  19. S.S. Sehgal and **K.K. Gupta**, 1990. Premaginal development of male accessory glands of *Dysdercus koenigii* Fabricius. Indian J. Entomol. 52: 461-464.
  20. **K.K. Gupta** and J.R. Gandhi, 1989. Hydrogen ion concentration and digestive enzymes in the gut of *Lygaeus hospes* Fabr. (Heteroptera: Lygaeidae). Indian J. Entomol. 51: 225-228.
  21. **K.K. Gupta** and J.R. Gandhi, 1989. Aggregation behaviour of *Lygaeus militaris* Fabr. (Insecta: Heteroptera) in response to some environmental factors. Zoology, 2 (1): 19-25.
  22. S.S. Sehgal and **K.K. Gupta**, 1988. Structure and mechanism of spiracles of *Polistes olivaceus* (De Geer). Bull. Entomol. 29 (1): 41-44.
  23. **K.K. Gupta** and S.S. Sehgal, 1987. Colour preference of *Callosobruchus maculatus* (Fabr.) as elicited by of orientation and ovipositional behaviours. Indian J. Entomol. 49:544-546.
- 3. Research papers(Abtract) Published in International Conferences/Seminar**
1. Kumar S., **Gupta K. K.**, Farnesol induced changes in the haemolymph profile and developmental anomalies in *Dysdercus koenigii* (Hemiptera: Pyrrhocoridae). International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237

2. Shah V. K., **Gupta K. K.**, Potentials of herb *Ageratum houstonianum* in management of dengue mosquito *Aedes aegypti*: an approach for sustainable vector management. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
3. Sharma C., Shah V. and **Gupta K. K.**, Effects of farnesol on survival, growth and development of *Aedes aegypti* L. (Diptera: Culicidae International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
4. Chaudhary A., **Gupta K. K.**, Impact of plant derived sterol carrier protein inhibitors on insects growth & development. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
5. Priyanka, Kayesth S., Parveen, **Gupta K. K.**, Oviposition preference of red cotton bug *Dysdercus koenigii* on preferred and non-preferred host plants. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
6. **Gupta K. K.**, Application of insect plant interactions in integrated pest management. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
7. Verma A K, Myneedu V P, Arora J, Naz F, **Gupta K. K.**, Shazad M, Sarin R, Kayesth S 2020, Antibacterial potential of ethanol extract of *Ocimum sanctum* against clinical isolates of *Pseudomonas aeruginosa*. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. ISBN 9-788194-428237
8. **K. K. Gupta** and Sunil Kayesth, 2017. Bioefficacy of *Ocimum sanctum* on reproductive performance of red cotton bug, *Dysdercus koenigii* (Heteroptera: Pyrrhocoridae). 19<sup>th</sup> International Conference of Entomology, 2017, held at Paris, France, October19-20, 2017; awarded the best presentation award for the same.
9. Mohd Shazad and **K. K. Gupta**, 2017. An ecofriendly approach for the management of *Aedes aegypti* by *Ocimum sanctum*. 19<sup>th</sup> International Conference of Entomology, 2017, held at Paris, France, October19-20, 2017.
10. Shailendra Kumar and **K. K. Gupta**, 2017. Influence of farnesol on Growth and Development of *Dysdercus koenigii*. 19<sup>th</sup> International Conference of Entomology, 2017, held at Paris, France, October19-20, 2017.
11. Sunil Kayesth and **K. K. Gupta**, 2017. Bioefficacy of *Catharanthus roseus* on reproductive performance of red cotton bug, *Dysdercus koenigii* (Heteroptera: Pyrrhocoridae). 19<sup>th</sup> International Conference of Entomology, 2017, held at Paris, France, October19-20, 2017.
12. **K. K. Gupta** and Sunil Kayesth, 2017. Bioefficacy of hexane extract of *Ocimum sanctum* on survival, development and reproductive bioactivities of *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). Hemipteran insect plant interaction HPIS 2017, held at Madrid, Spain, June 4-8, 2017. Page 196

13. Mohd Shazad, Shailendra Kumar, Kayesth S., **Gupta K. K.** 2017. An assessment of potentials of *Ocimum sanctum* in the management of *Aedes aegypti* L. (Diptera: Culicidae). Indous Workshop & International Symposium on Biological Timing and Health Issues in the 21st Century, held at Department of Zoology, University of Delhi, Delhi (India) February 21-24, 2017.
14. Shailendra Kumar, Mohd Shazad, Kayesth S, **Gupta K. K.** 2017. Influence of *Catharanthus roseus* on Survival and Development of *Dysdercus koenigii*. Indous Workshop & International Symposium on Biological Timing and Health Issues in the 21st Century, held at Department of Zoology, University of Delhi, Delhi, India. February 21-24, 2017.
15. **K. K. Gupta** and Sunil Kayesth, 2016. Influence of plant volatiles on mating behaviour and reproductive fitness of *Dysdercus koenigii*. XXV International Conference of Entomology, held at Orlando, USA. September 25 -30, 2016.
16. Sunil Kayesth and **K. K. Gupta**, 2016. An assessment of juvenomimic activity of *Catharanthus roseus* on growth and development of *Dysdercus koenigii*. XXV International Conference of Entomology, held at Orlando, USA. September 25 -30, 2016.
17. Shailendra Kumar, Sunil Kayesth, Mohd Shazad and **K. K. Gupta**, 2016 Influence of *Catharanthus* on survival and development of *Dysdercus koenigii*. International Conference on Science: Emerging Scenario and Future Challenges, held at Dharamshala, India. 11-12 June, 2016.
18. **K. K. Gupta**, Mohd Shazad and Shailendra Kumar, 2016. Impact of *Ocimum sanctum* on the development and reproductive bioefficacy of dengue fever mosquito, *Aedes aegypti* L. (Diptera: Culicidae), in International Conference on Science: Emerging Scenario and Future Challenges, held at Dharamshala, India. 11-12 June, 2016.
19. Mohd Shazad and **K. K. Gupta**, 2015. Bioefficacy of *Ocimum sanctum* on survival, development and reproduction of dengue vector *Aedes aegypti* L. (Diptera: Culicidae). 18<sup>th</sup> International Conference of Entomology, Penang. Malaysia, December 3-4, 2015.
20. Sunil Kayesth and **K. K. Gupta**, 2015. Influence of *Catharanthus roseus*, *Ocimum sanctum* and *Lantana camara* extracts on survival and longevity of *Dysdercus koenigii*. World Academy of Science, Engineering and Technology. 18<sup>th</sup> International Conference of Entomology, Penang. Malaysia, December 3-4, 2015.
21. V. Baweja, **K. K. Gupta**, V. Dubey and C. Keshavam, 2014. Assessing antimicrobial activity of various plant extracts on midgut microflora of *Aedes aegypti*. World Academy of Science, Engineering and Technology, International Journal of Bioengineering and Life Sciences Vol:1, No:12, 2014. 18<sup>th</sup> International Conference of Entomology, Penang. Malaysia, December 4-5, 2014.
22. Sunil Kayesth and **K. K. Gupta**, 2014. Ecofriendly approach for the management of red cotton bug *Dysdercus koenigii* by botanicals. International Journal of Energy and Power Energy 1(10) 2014. 18th International Conference on Energy, Water and Environment Systems, Barcelona, Spain, October 27-28, 2014

23. **K. K. Gupta**, 2014. Mating Behaviour and its significance in reproductive performance of *Dysdercus koenigii*. World Academy of Science, Engineering and Technology, International Journal of Bioengineering and Life Sciences Vol:1, No:12, 2014. 18<sup>th</sup> International Conference of Entomology, Penang, Malaysia, December 4-5, 2014.
24. **K. K. Gupta**, 2013. Effect of plant extracts on the midgut microbial flora of *Aedes aegypti*. Presented in XII International Conference on Vector and Vector borne diseases (ICOV), held at Udaipur, India. September 16- 18, 2013
25. Sunil Kayesth, **K. K. Gupta** and Rampal Rathore, 2012. Influence of hexane extract of *Ocimum sanctum* and *Catharanthus roseus* on longevity and reproduction of *Dysdercus koenigii* in ICER-2012, held at Kuala Terengganu, Malaysia. 22 -24 November, 2012.
26. **K. K. Gupta** and Sunil Kayesth, 2013. Influence of plant extracts on development and reproductive bioactivities of *Dysdercus koenigii*. Presented in International Chemical Ecology Conference (ICEC, 2013), held at Melbourne. August 19-23, 2013.
27. **K. K. Gupta** and Sunil Kayesth, 2012. Effect of *Lantana camara*, on longevity and reproduction of *Dysdercus koenigii*". Presented in XXIV International Conference of Entomology, held at Daegu, South Korea, 19 -26 August, 2012.
28. Sunil Kayesth and **K. K. Gupta**, 2012. Influence of hexane extract of *Ocimum sanctum* on longevity and reproduction of *Dysdercus koenigii*, in XXIV International Conference of Entomology, held at Daegu, South Korea. 19 -26 August, 2012.
29. **K. K. Gupta**, 2008. Sperm precedence and its implication on evolution of prolonged copulation in *Dysdercus koenigii*. Presented in XXIII International Congress of Entomology, held at Durban, South Africa. 6-12 July, 2008.
30. S. S. Sehgal and **K. K. Gupta**, 1996. Histophysiology of male accessory glands of *Dysdercus koenigii*. F. sequential to its development. Presented in XX International Congress of Entomology, held at Florence, Italy. August 25-31, 1996.
31. **K. K. Gupta** and S. S. Sehgal, 1996. Mating Strategies and mate selection behaviour of *Dysdercus koenigii*. Presented in XX International Congress of Entomology, held at Florence, Italy. August 25-31, 1996.
4. **Research papers(Abstract) Published in National Conferences/Seminar**
  1. Chaudhary A., **Gupta K. K.**, Impact of plant derived sterol binding proteins on reproductive bioactivities of *Helicoverpa armigera* and its implications on 'integrated pest management' National Conference on "Insect-Plant Biology in 21<sup>st</sup> Century" held at Deshbandhu College, University of Delhi, Kalkaji, New Delhi on November 4-5, 2019
  2. Parveen, **Gupta K. K.**, *Wolbachia* as a potential agent for biological control of mosquito- a strategy for management of mosquito borne diseases. National Conference on "Insect-Plant Biology in 21<sup>st</sup> Century" held at Deshbandhu College, University of Delhi, Kalkaji, New Delhi on November 4-5, 2019



3. Chaudhary A., **Gupta K. K.**, Singh D. Ichthyo faunal diversity in relation to physicochemical parameters of river Asan Dehradun, Uttarakhand, India. 39<sup>th</sup> Annual Conference of Environmental Biology, organised by ICAR-National Bureau of Fish Genetic resources at Lucknow on November 29-30. 2019
4. Impact of UV radiations on the survival and reproduction of dengue fever vector *Aedes aegypti*. Presented at Second National Symposium of Vector Biology and Vector Management, held at Deshbandhu College, Kalkaji, New Delhi. February 12, 2015
5. An assessment of antimicrobial activity of plant extracts on culture dependent midgut microbial flora of dengue vector *Aedes aegypti*. Presented at Second National Symposium of Vector Biology and Vector Management, held at Deshbandhu College, Kalkaji, New Delhi. February 12, 2015
6. Effect of plant extracts on midgut microbial flora of *Aedes aegypti*. Presented at National Symposium of Vector Biology and Vector Management, held at Deshbandhu College, Kalkaji, New Delhi. June 31, 2013
7. Influences of mating stimuli on the rate of oocyte maturation in *Dysdercus koenigii* Fabricius. Presented at 77<sup>th</sup> Indian Science Congress, held at Cochin

#### Conference Organization/ Presentations :

##### **Organization of a Conference/Workshop: 16**

1. National Conference on "Insect-Plant Biology in 21<sup>st</sup> Century" held at Deshbandhu College, University of Delhi, Kalkaji, New Delhi on November 4-5, 2019. **Convener**
2. National Conference on Pharmacovigilance Advancement in the Safe Drug Development. held at Deshbandhu College, University of Delhi, Kalkaji, New Delhi on January 16-17, 2020 **Advisory Member**
3. International Conference on Natural Products and Human Health held at University of Delhi, Delhi, India on February 27-29, 2020. **Co-convener**
4. National conference of "Insect Plant Biology in 21<sup>st</sup> century. November 4-5, 2019, held at Deshbandhu College, Kalkaji, New Delhi, **Convener**
5. Second National Symposium on "Environment: Greener Future and Awareness" March 19, 2016, Deshbandhu College, Kalkaji, New Delhi. **Coordinator**
6. Second National Symposium on "Vector Biology and Vector Management" Feb 12, 2015 at Deshbandhu College, Kalkaji, New Delhi. **Coordinator**
7. National Symposium on "Environment: Challenges and awareness" November 5, 2014 at Deshbandhu College, Kalkaji, New Delhi. **Coordinator**
8. National Symposium on "Vector Biology and Vector Management" June 21, 2013 at Deshbandhu College, Kalkaji, New Delhi. **Coordinator**

9. Fourth National Symposium on Environment “Green Technologies for Sustainable Development”. September 25, 2018, at Deshbandhu College, Kalkaji, New Delhi. **Member of organizing Secretariat**
10. Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship Program 2017’, Department of Science & Technology (DST), New Delhi from December 18-22, 2017. **Resource person and Member of organizing committee**
11. Third National Symposium on Environment: Challenges Generation Next” organized at Deshbandhu College on March 31, 2017. **Member of organizing committee**
12. National Symposium on Reproductive Health in India: Concerns and Awareness’, organized on Feb 12, 2016 at Deshbandhu College. **Member of organizing committee**
13. Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship Program 2015’, Department of Science & Technology (DST), New Delhi from December 14-18, 2015. **Convener**
14. Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship Program 2014’, Department of Science & Technology (DST), New Delhi from October 8-12, 2014. **Resource person and Member of organizing committee**
15. Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship Program 2013’, Department of Science & Technology (DST), New Delhi from December 16-20, 2013. **Resource person and Member of organizing committee**
16. Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship Program 2012’, Department of Science & Technology (DST), New Delhi from October 1-5, 2012. **Resource person**

**Participation as Paper/Poster Presenter:**

1. 19<sup>th</sup> International Conference of Entomology, 2017, held at Paris, France, October 19-20, 2017
2. XXV International Conference of Entomology, held at Orlando, USA. September 25 -30, 2016
3. International Conference on Science: Emerging Scenario and Future Challenges, held at Dharamshala, India. 11-12 June, 2016.
4. XII International Conference on Vector and Vector borne diseases (ICOV), held at Udaipur, India. September 16- 18, 2013
5. ICER-2012, held at Kuala Terengganu, Malaysia. 22 -24 November, 2012.
6. International Chemical Ecology Conference (ICEC, 2013), held at Melbourne. August 19-23, 2013.
7. XXIV International Conference of Entomology, held at Daegu, South Korea, 19 -26 August, 2012.
8. XXIII International Congress of Entomology, held at Durban, South Africa. 6-12 July, 2008.
9. XX International Congress of Entomology, held at Florence, Italy. August 25-31, 1996.

**Research Projects (Major Grants/Research Collaboration)**

1. Impact of electromagnetic radiations on the behavioural response of dengue fever vector *Aedes aegypti*. Innovation research project DBC-201 funded by University of Delhi (2013-2014). **Principal Investigator**. Amount sanctioned Rs. 5,50,000/-
2. Effect of plant extracts on the midgut microbial flora of *Aedes aegypti*. Innovation research project DB-

101 funded by University of Delhi (March 2012- July 2013). **Principal Investigator.** Amount sanctioned Rs. 10,00,000/-

3. Influence of certain plant extracts on reproductive behaviour and physiology of *Dysdercus koenigii* Research project funded by UGC under the scheme financial assistance for major research project (2009-2012). **Principal Investigator.** F. 34 – 463/2008. Amount sanctioned. 6,68,320/-
4. Sperm behaviour and its implication on evolution of prolonged copulation in *Dysdercus koenigii*. (1.7.2003-30.6.2006). Research project funded by UGC under the scheme financial assistance for major research project. **Principal Investigator.** F. No. 3-137/2003. Amount sanctioned Rs. 3,00,000/-
5. Courtship behaviour and adaptive significance of prolonged mating in *Dysdercus koenigii*. (1999-2002). The research project was funded by UGC under the scheme financial assistance for major research project. **Principal Investigator.** F. 3-47/99 (SR-II)

#### Awards and Distinctions

1. Nominated for Indo-South African Educational Exchange Programme from July 6-12, 2008
2. Nominated for Indo- Italian Cultural Exchange Programme from August 25 to September 7, 1996

#### Association With Professional Bodies

- **Editing:** Language editor, Institute of lifelong learning (ILLL), NCERT
- **Reviewing.** NCERT, Institute of lifelong learning (ILLL), Vector Biology Journal, Saudi Journal of Biosciences, International Journal of Tropical Insect Science, Asia Pacific Journal of Tropical Biomedicine, Indian Journal of Experimental Biology
- **Memberships:** Entomological society of India

#### Other Activities

##### Contribution for Development of e resources

1. Inheritance and Variation- Linkage, Chromosome Variation, Mutation. Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage. MOOC Format, NCERT
2. Locomotion and Movement. Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage. MOOC Format, NCERT
3. Molecular Basis of Inheritance: 1 Structure and replication of DNA. Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage. MOOC Format, NCERT
4. 'Transgenic animals: Creation of transgenic animals', E-content for postgraduate course. NME-ICT in Zoology under MHRD project
5. 'Transgenic animals: Applications', E-content for postgraduate course. NME-ICT in Zoology under MHRD project.

6. 'Principles of inheritance and variation Module 1: Pedigree Analysis'. Development of e-resources in biology for higher secondary school. NCERT.
7. 'Principles of inheritance and variation. Module 2: Sex determination'. Development of e-resources in biology for higher secondary school. NCERT.
8. 'Human skeleton'. Development of e-resources in biology for higher secondary school. NCERT.
9. 'Type of joints'. Development of e-resources in biology for higher secondary school. NCERT.
10. 'Mechanism of muscle contraction'. Development of e-resources in biology for higher secondary school. NCERT.
11. 'A guided tour of cell' on the website in different ODL format at [http: / /eduframe.net/andc/biology/Kamal-Bio/odlkamal.htm](http://eduframe.net/andc/biology/Kamal-Bio/odlkamal.htm)
12. 'Structure of DNA', EDUSAT, IGNOU
13. 'DNA Replication', EDUSAT, IGNOU
14. 'Transcription', EDUSAT, IGNOU
15. 'Translation', EDUSAT, IGNOU
16. 'Regulation of Gene Expression', EDUSAT, IGNOU
17. 'Life of Insects', EDUSAT, IGNOU
18. 'Transgenic Animals-I', EDUSAT, IGNOU
19. 'Transgenic Animals-II', EDUSAT, IGNOU
20. 'Transcription Regulation in Eukaryotes', reviewed E-lesson for NME-ICT in Zoology under MHRD project.
21. 'Translation', reviewed E-lesson for NME-ICT in Zoology under MHRD project.
22. 'Mutability and Repair of DNA', reviewed E-lesson for NME-ICT in Zoology under MHRD project.
23. "Human Genetic Disorders", reviewed E-lesson for NME-ICT in Zoology under MHRD project.
24. 'Mitosis and Meiosis: A Genetic perspective', reviewed E-lesson for NME-ICT in Zoology under MHRD project.
25. 'Online course in teaching of science at upper primary stage'. Department of education in science and mathematics, NIE, NCERT, New Delhi

26. 'Web Conversion of Certificate Programme for Teaching of Elementary Science (CTES)' DESM, NCERT NIE Campus
27. 'Web Conversion of Certificate Programme for Teaching of Elementary Science (CTES)'. DESM, NCERT NIE Campus, New Delhi

**Coordinator of the Students Activities**

1. Nature walk to explore and document the insect biodiversity of Deshbandhu College Campus under Biodiversity club of Department of Zoology and DBT Star College, on September 28, 2019

**Resource person**

1. Let's Innovate Competition organized by Delhi Public School, R.K. Purum Delhi, on July 13, 2019
2. Development of Script for the Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage for Dissemination of MOOC Format. Organized by Department of Education in Science and Mathematics at NCERT, New Delhi, From August 26-30, 2019
3. Workshop on Biotechnology-Principles and Processes, Army Public School, Dhaura Kuan, New Delhi held on Sept 2, 2019
4. Development of Script for the Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage for Dissemination of MOOC Format. Organized by Department of Education in Science and Mathematics at NCERT, New Delhi, From November 25-29, 2019
5. Innovation in Science Pursuit for Inspired Research (DST) held at Deshbandhu College, Kalkaji, New Delhi, Dec 17-20, 2020
6. Development of Script for the Modules of Training Package in Biology for Teachers Teaching at Higher Secondary stage for Dissemination of MOOC Format. Organized by Department of Education in Science and Mathematics at NCERT, New Delhi, From Dec 30, 2019-Jan. 3, 2020
7. Attended Workshop cum Orientation Programme on Leadership in Educational Administration for Academic Administrators in Universities and Colleges, Organized by the Department of Educational Administration, National Institute of Educational Planning and Administration, July 24-26, 2019 at NIEPA, New Delhi.

Signature of Faculty Member  
KAMAL KUMAR GUPTA