

CURRICULUM VITAE

NAME: Dr. Sudhida Gautam

COLLEGE ADDRESS: Department of Zoology
Hansraj College
University of Delhi,
Delhi-110007,
INDIA

CAREER OBJECTIVE:

- To secure a position with a well established organization with a stable environment that will lead to a lasting relationship in the field of academics that will enable me to use my strong organizational skills, educational background, and ability to work well with people.

EDUCATIONAL BACKGROUND:

1999 High School, C.B.S.E. from Faith Academy School, New Delhi. First division.

2001 Intermediate, C.B.S.E. from Faith Academy School, New Delhi. First division

2001-2004 **B.Sc.** Zoology (Hons.), University of Delhi, India. First division (72.4%).

2004-2006 **M.Sc.** in Zoology with specialization in Entomology, Department of Zoology, University of Delhi, India. First Division (71.5).

2012- **Ph.D.**, in Zoology, Department of Zoology, University of Delhi, India.

Title: “Behavioural interaction of green lacewings *Chrysoperla carnea* and *Mallada desjardinsi* (Neuroptera: Chrysopidae) to mealybug *Phenacoccus solenopsis* (Homoptera: Pseudococcidae) in cotton agro-ecosystem”

June 2011: Qualified C.S.I.R. NET- Lecturership.

TEACHING/ RESEARCH EXPERIENCE:

Research Experience:

- S.R.F in DAC. Project entitled “Develop Vapour Heat Treatment (VHT) standards for disinfestations against Indian mango fruit flies for export to JAPAN” at NBPGR, New Delhi w.e.f. 08-09-2006 to 31-10-2006.

- Research Associate in the project entitled “Molecular variations and behavioural interactions to semiochemicals in important natural enemies of cotton pests” w.e.f. 1st November 2006 to 31st March 2008 in Division of Entomology, I.A.R.I.
- **Teaching Experience:**
- Taught as Guest Lecturer in MIRANDA HOUSE from Sept 2011 till April 2012.
- Taught as Assistant Professor Adhoc in Deshbandhu College, University of Delhi from Jan’2012 till 25th Oct’2014.
- Taught as Assistant Professor Adhoc in Gargi College, University of Delhi from 5th Jan’2015 till 20th April’2015.
- Teaching as Assistant Professor Adhoc in Hansraj College, University of Delhi from 22 July’2015 till date.

Techniques learned:

- (i) Insect rearing Techniques:
 - (a) **Parasitoid:** egg parasitoid-*Trichogramma* spp; larval parasitoid-*Bracon brevicornis*, *Apanteles angaleti*; egg-larval parasitoid, *Chelonus blackburni*.
 - (b) **Predators:** Coccinellids (Coccophagous-*Cryptolaemus montrouzieri*, *Scymnus coccivora*, *Nephus regularis*; Aphidophagous-*Cheilomenes sexmaculata*, *Coccinella septempunctata*), Chrysopids (*Chrysoperla carnea*, *Mallada desjardinsi*).
 - (c) **Hosts/Pests:** Mealybug (*Maconellicoccus hirsutus*, *Phenacoccus solenopsis*), Aphids (*Aphis craccivora*, *Lipaphis erysimi*), Moths (*Corcyra cephalonica*, *Phthorimaea operculella*, *Pieris brassicae*, *Spodoptera litura*, *Heliothis armigera*), Beetle (*Tribolium castaneum*, *Callosobruchus* spp), Fly (*Drosophila melanogaster*, *Bactrocera cucurbitae*).
 - (d) **Weed killer:** Parthenium beetle, *Zygogramma bicolorata*.
- (ii) Equipment handling:
 - (a) Electroantennogram (EAG)
 - (b) GC for studying the saturated hydrocarbon profile
 - (c) Electrophoresis
- (iii) Bioassay of pesticide and semiochemicals
- (iv) Basic knowledge of Computer- Certificate course in MS-word.
- (v) Scientific Photography
- (vi) Report writing and editing. Making of Project utilization certificate.

AWARDS /FELLOWSHIPS:

- (i) Recipient of Awards/Merit Medal/Appreciation:

- ~Golden Jubilee Award (Science stream)-Miranda House
- ~Appreciation from Government of Nepal for delivering lecture.
- (ii) Recipient of Rajiv Gandhi National Fellowship from U.G.C.
- (iii) L.S. Net Qualified June, 2011.
- (iv) Member in Programme/Scientific Committees:
 - ~ Invitation and Reception Committee of 49th IARI Convocation

12. Important Extra Curricular Activities/Games/Team work:

- ~ Recipient of Prize from Delhi Horticultural Society
 - ~ President, Zoological Society, Miranda House, University of Delhi
 - ~Member of N.S.S. at college level.
 - ~ Worked with many fellow colleagues, PG students, scientists and teachers
- (i) Participation at School Level
 - (ii) Participation at College Level

CERTIFICATE COURSE:

- Energy and Environment Awareness conducted by Delhi University (2001-2002).
- MS- office from C.M.C. (2008).

CONFERENCE/WORKSHOP:

1. Member in Editorial Committees: 3rd International Conference on *Parthenium* held in New Delhi, I. A. R. I. dec08-10th 2010.
2. Participated in the workshop “Introduction to Bio-informatics” organized by Department of Zoology, Zakir Hussain Delhi College, held at Institute of Life Long Learning, University of Delhi from January 16-20th,2012.
3. Presided as Resource Person in the “INSPIRE Internship Program-2012” organized by Deshbandhu College, University of Delhi, held from October1-5, 2012.
4. Attended National Symposium on “Vector Biology and Vector Management, 2013” held in Deshbandhu College, University of Delhi-110019 held on 21st June, 2013.
5. Presided as Resource Person in the “INSPIRE Internship Program-2013” organized by Deshbandhu College, University of Delhi, held from December 16-20, 2013.
6. Presided as Resource Person in the “INSPIRE Internship Program-2013” organized by Deshbandhu College, University of Delhi, held from October08-12, 2014.
7. Member of the organizing committee for the National Symposium on Environment: Challenges and Awareness held at Deshbandhu College on November5, 2014.
8. Participated in the National Symposium on Vector biology and vector management held at Deshbandhu College on February 12, 2015.
9. Presided as an organizer in the workshop on “Bioinformatics” organized by Department of Zoology, Hansraj College, sponsored by DBT (GOI) under star college project on 28th September, 2015.

10. Presided as an organizer in the workshop on “Model organisms in Zoology” organized by Department of Zoology, Hansraj College, sponsored by DBT (GOI) under star college project from 14th dec- 21st dec’2015.
11. Attended the one-day workshop on “Training the Trainers: IPR Workshop”, held on January 15,2016 at Miranda House, Delhi university.
12. Participated in SCIENCE SETU and helped to organize the workshop on “DNA FINGERPRINTING” held on 22nd January’2016 at Hindu College, University of Delhi.
13. Worked as an organizer in the two-day workshop on “Biotechnology techniques” 21st- 22nd March 2016, under DBT Star College Scheme at Hansraj College, University of Delhi.
14. Participated in the workshop entitled “ Art of Grant writing” for undergraduate science teachers, held on 24th -25th February 2016, organized under DBT Star College Scheme at Department of Zoology, Miranda house, University of Delhi.
15. Worked as an organizer in workshop on “**Techniques in Immunology**” held on 19-20 December 2016 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
16. Worked as organizer in a workshop on “**Drosophila- A model organism**” held on 21- 22 January 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
17. Worked as organizer in a workshop on “**Zebrafish- A Model Organism**” held on 21- 22 February 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
18. Worked as organizer in one day workshop on “**Construction and Analysis of Phylogenetic Trees**” held on 23 February 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
19. Worked as organizer in two day workshop on “**Diagnostic Applications of Immunological Techniques**” held on 19-2-September 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
20. Worked as organizer in one day workshop on “**Basic Blood and biochemical Parameters of Human Health**” held on 7 September 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
21. Worked as organizer in one day workshop on “**Beekeeping-Be a Bee**” held on 22 August 2017 organized by Department of Zoology, Hansraj College under the aegis of DBT Star College Scheme.
22. Worked as organizer member in the **INSPIRE Programme (DST)** held at HansrajCollege, from 12th December-16th December 2017.
23. Participated and presented a poster in the “**National Conference on current and Future perspectives in Nanotechnology: Nanoworld-2018**” held in Shivag College, University of Delhi on 12-13 April 2018.
24. Resource person in workshop at department of zoology for laboratory staff held on 17 June 2019.

PUBLICATIONS:

(A) RESEARCH PAPERS

1. Gautam R.D., Usha Saxena, **Sudhida Gautam**, Md. Aslam Khan and C.P.N. Gautam, 2007. Studies on Solanum mealy bug, *Phenacoccus solani* Ferris (Hemiptera: Pseudococcidae), its parasitoid and predator complex, reproductive potential and utilization as laboratory prey for rearing the ladybird and green lace wing predators. *Journal of Entomological Research*, **31** (3): 259-264. Print ISSN 0378-9591
2. **Sudhida Gautam**, A.K. Singh, A. Thomas, V.G. Malathi and Gautam R.D. 2008. Morphological and molecular differentiations among the green lacewings collected from cotton field in Delhi. *Journal of Entomological Research*, **32** (4): 291-294. Print ISSN 0378-9591
3. Gautam R.D., C.P.N. Gautam, Md. Aslam Khan and **Sudhida Gautam**, 2008. Studies on the breeding and generation potential of *Zygogramma bicolorata*. *Indian Journal of Applied Entomology*, **22** (1): 8-11. Print ISSN 0970-9509
4. **Sudhida Gautam**, A.K. Singh and Gautam R.D. 2009. Comparative life table analysis of Chrysopids reared on *Phenacoccus solenopsis* Tinsley in Laboratory. *J. Biol. Control*, **23** (4): 393-402. Print ISSN 0971-930X
5. Gautam, R.D., Sachin S. Suroshe, **Sudhida Gautam**, Usha Saxena, Babasaheb B. Fand and Trishla Gupta 2009. Fortuitous Biological Control of exotic mealybug, *Phenacoccus solenopsis* - A boon for Indian Growers. *Ann. Pl. Protec. Sci.*, **17** (2): 473-474. ISSN 0971-3573
6. **Sudhida Gautam**, R. Maruthadurai and R.D. Gautam 2010. Power packed green lacewing feed (PPGF), its shelf life and effect on reproductive potential of *Mallada desjardinsi* (Navas) (Neuroptera: Chrysopidae). *Journal of Biological Control*, **24**(3): 227-230. Print ISSN 0971-930X
7. Gautam, R.D., **Sudhida Gautam**, Sachin. S. Suroshe and Usha Saxena. 2010. Simple technique based on taxonomic characters for distinguishing the cotton mealybugs (Pseudococcidae: Homoptera). *Journal of Entomological Research*, **34** (1): 79-84. Print ISSN 0378-9591
8. Mahesh P., R.D. Gautam, **Sudhida Gautam** and Babita Yadav, 2010. Synomonal influence of cotton varieties in vegetative phase on the egg parasitoid, *Trichogramma* spp. (Trichogrammatidae: Hym.). *Pusa AgriScience*, **33**: 20-28.
9. ***Sudhida Gautam**, Ashok Kumar Singh, R.D. Gautam 2010. Olfactory responses of green lacewings, *Chrysoperla* sp. (*carnea* group) and *Mallada desjardinsi* on mealybug, *Phenacoccus solenopsis* (Homoptera: Pseudococcidae) fed on cotton. *Acta Entomologica Sinica*, **53** (4): 497-507. ISSN : 04594-6296
10. R. Bhoopathi, **Sudhida Gautam**, R.D. Gautam and Subhash Chander. 2011. Determination of key mortality factor of Mexican beetle, *Zygogramma bicolorata* Pallister. *Journal of Biological Control*, **25** (2): 127-133. Print ISSN 0971-930X
11. ***Kanchan Siakia**, Azad Thakur N.S., Alemla Ao and **Sudhida Gautam**. 2012. Sexual Dimorphism in *Pseudonemorphus versteegi* (Ritsema) (Coleoptera:

- Cerambycidae), Citrus Trunk Borer. Florida Entomologist 95(3): 625-629. ISSN 0015-4040.
12. Mahesh, P., **R. D. Gautam**, **Sudhida Gautam** and R. Maruthadurai, 2012. Kairomones of *Earias vittella* (F.) and their influence on the parasitic potential of *Trichogramma* spp (Trichogrammatidae: Hymenoptera). *Indian J. Ent.*, **74** (1): 47-53 Print ISSN: 0367-8288. Online ISSN: 0974-8172.
12. *Kanchan Siakia, Azad Thakur N.S., Alemla Ao and Sudhida Gautam. 2014. Sex pheromone of citrus trunk borer (*Anoplophora versteegi*) (Coleoptera :Cerambycidae) - A new finding. *Indian Journal of Agricultural Sciences* 84 (1): 158–60, January 2014/Short Communications. ISSN 0036-8245.
13. **Sudhida Gautam**, **R. D. Gautam** and A.K. Singh 2015. Behavioural interaction of *Chrysoperla carnea* and *Mallada desjardinsi* (Neuroptera: Chrysopidae) against *Phenacoccus solenopsis* Tinsley. *Annals of Plant Protection Sciences*, **23** (2): 213-217.
14. Srivastava, M; A.K. Singh; **S. G. Parihar**; R.D. Gautam and Veereshkumar, 2017. Comparative effect of formulated Kairomonal dusts on Parasitization efficiency of *Trichogramma* spp. *Journal of Environmental Biology* **38**: 641-648.
15. Gautam R.D., **Parihar Sudhida G.** 2018. Integrated Management of fruit flies for horticultural crops. In: *Handbook of Integrated Pest Management* (eds Chattopadhyay, C.; Tanwar, R.K.; Sehgal, M.; Birah, A.; Bhagat, S.; Ahmad, N.; Mehta, N.). Pub. By Indian Council of Agricultural Research, pp. 190-197.
16. Gautam, R.D. and **Sudhida G. Parihar**, 2018. Potential plants for healthy aging and wellness: Experience the Nature's Gift. In Noni Search 20017-18: twelfth National Symposium on "Noni and Herbal Wealth for Sustainable Wellness" Souvenir and Abstracts (Eds. P. Rethinem & T. Marimuthu) held at Mahatma Phule Krishi Vidyapeeth, College of Agriculture, Pune, Maharashtra wef 24-25 March 2018, pp 25-32 (Invited Souvenir Chapter,SA-03).

*Published in foreign journal

(B) BOOKS

17. Gautam, R.D, G.K. Mahapatro, Shashi Bhalla, K. Shankarganesh, **Sudhida Gautam**, Kaushal Verma and H.S. Gaur 2010. *Scientific Presentations on Parthenium-3rd* International Conference on Parthenium, December 8-10, Indian Agricultural Research Institute, New Delhi-10012, India. (xii+198).

18. Gautam, R.D., G.K. Mahapatro, Shashi Bhalla, K. Shankarganesh, **Sudhida Gautam**, Kaushal Verma and HS Gaur 2010. Souvenir-3rd International Conference on Parthenium, December 8-10, Indian Agricultural Research Institute, New Delhi-10012, India. (vi+20).

(C) BOOK CHAPTERS

19. Gautam, R.D. and **Sudhida Gautam** 2008. Vermitechnology for Sustainable Agriculture, pp397-403. In *Strategies for Augmenting Soil Fertility* (eds Shiv Dhar, Manjaiah, K.M., Annapurna, K. and R.K. Rai) Division of Agronomy, Indian Agricultural Research Institute, New Delhi-12, 608p. ISBN :978-81-88708-32-1

(D) POSTER

20. Gautam R.D., C.P.N. Gautam and **Sudhida Gautam**, 2008. Management of Solanum Mealy Bug-an emerging threat to Indian Agriculture (A Poster for Pusa Krishi Vigyan Mela, Feb 2008). Division of Entomology, IARI, New Delhi-12.

(E) EXTENDED SUMMARIES IN NATIONAL SYMPOSIA

21. **Sudhida Gautam**, Usha Saxena, Trishla Gupta and Gautam, R.D. 2009. Laboratory competitiveness amidst the mealy bugs (Pseudococcidae: Homoptera) their reproductive and starvation potential. In National Conference on Applied Entomology: Impact of Global warming on the incidence and management of insect pests in Agriculture, Maharana Pratap Univ. of Agric. & Technology, Rajasthan College of Agric., Udaipur, March 5-7, 2009 (extended Abstract pp50-51).

(F) EXTENDED SUMMARIES IN INTERNATIONAL CONFERENCE

22. **Sudhida Gautam**, R.D. Gautam and A.K. Singh 2010. A simple labeling technique of *Zygogramma bicolorata* Pallister (Chrysomelidae: Coleoptera). In *Scientific Presentations on Parthenium-3rd International Conference on Parthenium*, December 8-10, Indian Agric. Res. Instt., New Delhi-10012, India, pp 101-102.
23. **Sudhida Gautam**, R. Bhoopathy, R.D. Gautam and A.K. Singh 2010. Feeding and damage potential of *Zygogramma bicolorata* to the *Parthenium hysterophorus* Linnaeus. In *Scientific Presentations on Parthenium-3rd International Conference on Parthenium*, Dec 8-10, Indian Agric. Res. Instt, N. Delhi-12, India, pp 103-104.
24. Usha Saxena, Trishla Gupta, **Sudhida Gautam**, C.P.N. Gautam, Md. A. Khan and Gautam, R.D. 2010. Faunal diversity of *Parthenium hysterophorus* in Delhi. In *Scientific Presentations on Parthenium-3rd International Conference on Parthenium*, December 8-10, Indian Agric. Res. Instt., New Delhi-10012, India, pp 41-43.

(G) E-content (Online chapters for graduate and post graduate students)

- 1) E-content for Institute of Lifelong Learning, University of Delhi (NME-ICT Project) E-content for ILL (University of Delhi). Paper: Genetics; Lesson: Human Genetic Disorders; Author Name: Dr. Kiran Bala & Dr. Sudhida Gautam P.

Reviewer : Dr. Kamal Gupta ,College/ Department: Deshbandhu College, University of Delhi.

- 2) E-module for Post-graduate courses: MHRD (NME-ICT); Paper No. 16 : Molecular Genetics; Module 12: Principles of Gene Expression: Transcription
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 3) E-module for Post-graduate courses: MHRD (NME-ICT); Paper No. 16: Molecular Genetics; Module 13: Principles of Gene Expression: Translation.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 4) E-module for Post-graduate courses: MHRD (NME-ICT); Paper No. 16 : Molecular Genetics; Module 15: Regulation of gene expression in Prokaryotes : Tryptophan Operon.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 5) E-module for Post-graduate courses: MHRD (NME-ICT); Paper No. 16: Molecular Genetics; Module 2: Changing concepts of genes
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 6) E-module for Post-graduate courses: MHRD (NME-ICT); Paper No. 16: Molecular Genetics; Module 3: Genome structure and organisation
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 7) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : applied Ecology, Module 16: Renewable and Non-Renewable Resources
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 8) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : applied Ecology, Module 1: Introduction to Ecology:Part-1
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 9) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : applied Ecology, Module 1: Introduction to Ecology:Part-1
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 10) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics: Module entitled: Translation and Post -Translational Modifications in Eukaryotes.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 11) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics: Module entitled: Molecular mechanism for the regulation of gene expression in eukaryotes:Chromatin Remodelling.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 12) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics: Module entitled: Molecular mechanism for the regulation of gene expression in eukaryotes: Transcription Initiation.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 13) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics: Module entitled: Molecular mechanism for the regulation of gene expression in eukaryotes: Transcription Initiation.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#
- 14) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics: Module entitled: Changing Concepts of genes:Part-1.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#

- 15) E-module for Post-graduate courses: MHRD (NME-ICT); Paper : Molecular Genetics:
Module entitled: Gene knock out and Gene knock down.
http://epgp.inflibnet.ac.in/view_s.php?&category=894#