CURRICULUM -VITAE

OF

DR. KALPANA SINGH

DEPARTMENT OF ZOOLOGY

UNIVERSITY OF LUCKNOW

LUCKNOW-226 007 (INDIA)

JANUARY -2023

**Dr. Kalpana Singh**

**1. Current Position**  **:** **Associate Professor (Stage 4: AGP 9000)**

**2. Address of Correspondence** **:** Department of Zoology

University of Lucknow

Lucknow-226 007 (India)

Mobile: +91 7897466272

E-Mail: **drkalpanasingh@gmail.com**

**3. Date of Birth**  **:** 13 October, 1979

**4. Educational Qualifications**  **:** M.Sc. (Zoology)

UGC- CSIR-NET,

Ph.D. (Zoology) (Please See Annexure I)

**5. Teaching Experience** **:** ~16 years

**6. Research Experience**  **:**  ~20 years.

**7. Broad Area of Research** **:** Zoology (**Applied Zoology)**

**8. Positions held: :** Lecturer,

Lecturer (Senior Scale) and

Assistant Professor (Stage 2: AGP 7000),

Assistant Professor (Stage 3: AGP 8000), Department of Zoology, University of Lucknow,

**9.** Title of thesis for doctoral degree: **‘An Investigation on Certain Aspects of Reproductive Behaviour in an Aphidophagous Ladybird Beetle, *Cheilomenes* *sexmaculata’* (2006).**

**10. Fellowships Awarded:** (Annexure-II)

1. **Junior Research Fellow** (CSIR, New Delhi): Contribution on Certain Aspects of Reproduction and Predation in an Aphidophagous Ladybird beetle, *Cheilomenes sexmaculata* (Fabricius). January 01, 2003- January 01, 2005
2. **Senior Research Fellow** (CSIR, New Delhi): Contribution on Certain Aspects of Reproduction and Predation in an Aphidophagous Ladybird beetle, *Cheilomenes sexmaculata* (Fabricius). January 1, 2005- Sept 20, 2005
3. **Fellowship of Asian Biological Research Foundation (FABRF) 2019**
4. **Honorary Fellowship of Society of Society of Life Sciences (FSLS) 2020**

**11. Research Contribution & Training:** Please See Annexure-II

**Annexure-I**

**(Educational Qualifications)**

|  |  |  |  |  |  |  |
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| **S. No.** | **Name of Examination** | **Board/ University &**  **College** | **Year** | **Subject (s)** | **%age** | **Division** |
| **1.** | **10** | C.B.S.E. (A.I.S.S.E.)  Navyuga Radiance Senior Secondary School,  Lucknow | 1994 | English  Maths  Hindi  So. Science  Science | 62.2 | Ist |
| **2.** | **10+2** | C.B.S. E. (A.I.S.S.C.E)  Navyuga Radiance Senior Secondary School  Lucknow | 1996 | English  Biology  Chemistry  Physics  Maths | 67.6 | Ist |
| **3.** | **B. Sc.** | Navyuga Kanya Degree College Lucknow | 1999 | Zoology  Botany  Chemistry | 65.2 | Ist |
| **4.** | **M. Sc.** | Lucknow University  Lucknow | 2001 | Zoology (Entomology) | 72.6 | Ist |
| **5.** | **NET** | CSIR UGC NET Examination (June 2002) | June 2002 | Life Sciences | CSIR JRF & SRF | 2-6/2002(I) EU.II |
| **6.** | **Ph.D.** | Title of Thesis: **‘An Investigation on Certain Aspects of Reproductive Behaviour in an Aphidophagous Ladybird Beetle, *Cheilomenes* *sexmaculata’* (2006).** From **University of Lucknow** | | | | |

**Annexure-II**

**(Research Contributions & Training)**

**12. Proceedings/ Technical Bulletin:** **(01)**

**Modern Approaches to Insect Pest Management** (2010) (eds. Omkar, Mishra, G. & **Kalpana Singh**) Centre of Excellence, Department of Zoology, University of Lucknow, Lucknow.

**13. Training for Research & Teaching**

(i)U.G.C. sponsored **Orientation Programme** at Academic Staff College, University of Lucknow, Lucknow from Sept. 1-29, **2008**.

(ii) U.G.C. sponsored **Refresher Course** in Zoology in the Academic Staff College, University of Lucknow from January Jan. 9-30, **2010**.

1. U.G.C. sponsored **Refresher Course** in Zoology in the Department of Zoology, University of Lucknow from Jan. 16- Feb. 06, **2012**.
2. U.G.C. sponsored **Refresher Course** in Zoology in the Department of Zoology, University of Lucknow from Feb. 05-25, **2014**.
3. One Day **Training Programme** on Biodiversity & Its Conservation sponsored by Uttar Pradesh State Biodiversity Board, Lucknow; Organised by Biodiversity and Wildlife Conservation Lab, Department of Zoology, University of Lucknow, Lucknow on March, 28, 2014
4. **Short Term Course** on “Strategic Planning and Management of Technical Institutions through ICT” Conducted by Entrepreneurship Development & Industrial Coordination Department held at UP Textile Technology Institute, Kanpur between 17/08/**2015**- 21.08.**2015** (one week)
5. **Short Term Training Programme** on “Research Methodology” held at UP Textile Technology Institute, Kanpur between September 05-09, **2016** (one week)
6. **Short Term Training Programme** on “Yoga: A Holistic Approach to Health and Well Being” held at UP Textile Technology Institute, Kanpur between September June 21-27, **2017** (one week)
7. Two weeks **Faculty Development Training Programme** sponsored by Department of Science & Technology, Government of India, New Delhi and Organized by Centre for Industrial and Management Consultants, Kanpur at Uttar Pradesh Textile Technology Institute, Kanpur (09.04.2018 to 21.04.**2018**)
8. Seven days’ **Workshop** **on Data Analytics Using SPSS** organized by Department of Statistics, University of Lucknow (February 19-25, **2019**)

**14. Membership of Academic Bodies**

Life Member, **Indian Science Congress Association (ISCA)**, Kolkata (WB), India

Life Member, **International Society of Applied Biology**, Lucknow (UP), India

Life Member, **Asian Biological Research Foundation (ABRF)**, Prayagraj (UP), India

Life Member, **Glocal Environment & Social Association (GESA),** Prayagraj (UP), India

Life Member, **Society of Life Sciences (SLS),** Satna (MP), India

**15. Administrative/ Academic Experience**

1. Member, Departmental Research Committee, University of Lucknow, Lucknow.
2. Member, Board of Studies in Zoology, University of Lucknow, Lucknow.
3. Assistant Superintendent for conduct of UG & PG Annual exams
4. Head Examiner, B.Sc. Zoology Practical Examinations, University of Lucknow.
5. Worked as **Subject Expert**, selection of Fellows in projects at Universities of Lucknow.
6. Co-organised Symposium: NATIONAL SYMPOSIUM ON MODERN APPROACHES IN INSECT PEST MANAGEMENT (2010)
7. Assistant Provost, Golden Jubilee Girls Hostel, University of Lucknow
8. **Organised** Webinar**: Forensic Entomology And Its Relevance in Legal Proceedings (2020)**
9. Co-**organised** Conference : 2nd International Web Conference on Environment and Society (ICES 2020) (GESA)

**16. Curriculum Development**

1. Participation in the revision of various U.G. Zoology syllabi in the Department
2. Participation in the revision of various P.G. syllabi in the Department
3. Participation in the development of Pre-Ph. D. Zoology syllabus in the Department.

**17. Research Projects**

(1) Submitted to UP-CST: “Effect of Indian Classical Music on Physiology of a Mammal”

**18. Research Supervision**

**Ph.D. Awarded**

* + - 1. **Dr. (Mrs.) Sunita Rawat (2017):** Investigation on Bio-ecology of a Sarcophagus Fly. **Awarded**
      2. **Dr. (Ms.) Reema Sonker (2019):** Investigation on Ecological Succession of Arthropod Communities over a dead animal with Forensic purview. **Awarded**

**Ph.D. Under Supervision**

* + - 1. **Mr. Jaipal** (2016): Investigations on Certain Aspects of Ecology of Tasar Silkworm in Uttar Pradesh. **Ongoing**
      2. **Ms. Shilpa Nandan** (2017): Investigation on effect of certain medicinal plants on *Culex* Population. **Ongoing**
      3. **Ms. Reena** **Kumari Chaudhary** (2017): Investigation on larvicidal property of certain plants on *Aedes* Population. **Ongoing**
      4. **Ms. Reetu Singh** (2019): Ethology of An Albino Rat Exposed to Indian Classical Music (Raga Darbari). **Ongoing**
      5. **Ms. Nikita Katiyar** (2021): Modulation of Ethophysiology of Albino Rat by Indian Classical Instrumental Music (Raga Bhairavi). **Ongoing**

**19. Invited talks**

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| **Invited Lectures** |
| * + - 1. Invited Lecture on **“Technical Advances in Forensic Entomology” in the National Conference on “Biotechnological Developments and Societal Benefits: Present Status and Future Prospects”** organized by Sky Institute, Kursi road, Lucknow, Uttar Pradesh April 8-9, **2015** |
| * + - 1. Invited Lecture as Resource speaker during Faculty Development Programme on **“Quality Management in Engineering Materials”** held at UP Textile Technology Institute Kanpur on June 20-25, **2016** on the topic “Quality Management in Sericulture” |
| * + - 1. Invited Lecture in **International Conference on Advance Materials, Textiles and Processes (ICAMTP-2017)** (Oct. 14-15, **2017**)held at Uttar Pradesh Textile Technology Institute, Kanpur (UP) on the topic “Ecological Impact of Silk Textile Industry” |
| * + - 1. Invited Lecture to PG students of **Department of Zoology, Isabella Thoburn College, Lucknow**(Feb. 02. **2018**) on the topic “Forensic Entomology: Scope & Challenges” |
| * + - 1. Invited Lecture in **One Day Workshop on Effective Technical Communication** (Aug. 22, **2019**)held at Uttar Pradesh Textile Technology Institute, Kanpur (UP) on the topic “Technology & Teaching” |

**Publications of Dr. Kalpana Singh**

* + - * 1. **Books/Manuals/Monographs**

1. Dr. Jitendra Pratap Singh, Dr Prashant Vishnoi, Er. Shanu Prabhakar, **Dr. Kalpana Singh,** Dr. AKS Gangwar, Dr. Devendra Prasad, Dr. Shiv Govind Prasad (2021). ***Advances in Textile Materials and Processes ATMP-2021 (Vol-1).*** INSC International Publishers ISBN: 978-1-68576-250-6
   * + - 1. **Published / Accepted Research Articles/ Reviews / Editorials**
2. Omkar, Mishra G. & **Kalpana Singh** **(2005)**. Effect of Different Wavelengths of Light on the Life Attributes of Two Aphidophagous Ladybirds. *European Journal of Entomology* 102(1), 33-37.
3. Omkar, **Kalpana Singh** &. Pervez Ahmad **(2006)**. Influence of mating duration on fecundity and fertility of two aphidophagous ladybirds. *Journal of Applied Entomology*, 130 (2), 103–107, March 2006.
4. Avanish K. Gupta, Shefali Srivastava, Geetanjali Mishra, **Kalpana Singh** & Omkar **(2006)**. Survival, development and life tables of two congeneric ladybirds in aphidophagous guilds. *Insect Science*, 13(2), 119–126, April 2006
5. Omkar, Satyendra K. Singh & **Kalpana Singh** **(2006)**. Effect of age on reproductive attributes of an aphidophagous ladybird. *Cheilomenes sexmaculata*. *Insect Science*, 13( 4), 301–308, August 2006
6. Omkar & **Kalpana Singh** **(2007)**. Rhythmicity in Life Events of an Aphidophagous Ladybird Beetle, *Cheilomenes sexmaculata*. *International Journal of Tropical Insect Science*, 131(2), 85–89, March 2007
7. **Kalpana Singh** & Omkar **(2009)**. Effect of Parental Ageing on Offspring Developmental and Survival Attributes in an Aphidophagous Ladybird, *Cheilomenes sexmaculata.* *Journal of Applied Entomology*, 133(7), 500–504, August 2009
8. **Kalpana Singh** & Jitendra Pratap Singh **(2012)**. Biological Pest Control in Cotton. *Asian Textile Journal. 21 (7)*, 68-75, July 2012, ISSN 0971 3425
9. Jitendra Pratap Singh & **Kalpana Singh** **(2013)**. Fibre Examination, the Crucial Evidence in Forensic Science. *Asian Textile Journal*. 22(7), 75-79, July 2012. ISSN 0971 3425
10. Jitendra Pratap Singh & **Kalpana Singh** **(2013)**. Fiber Examination in Forensic Science. **Editorial** in *Journal of Textile Science and Engineering*. 3 (2), 1-2; doi 10.4172/2165-8084.1000e116
11. **Kalpana Singh** & Omkar **(2014)**. Investigation on rhythmicity in oviposition of an Aphidophagous Ladybird Beetle *Cheilomenes sexmaculata* (Coleoptera: Coccinellidae). *Biological Rhythm Research*. 45:2, 235-245
12. **Kalpana Singh** **(2014)**. Biocontrol: An Overview. *International Journal of Scientific and Innovative Research.* 2(1): 83-89
13. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2014**). Forensic Insects Facilitate Ecological Recycling. *International Journal of Scientific and Innovative Research*. 2(1): 105-106, P-ISSN2347-2189, E-ISSN 2347-4971
14. Reema Sonker, Sunita Rawat & **Kalpana Singh** (**2015**). Succession and Life cycle of Beetles on Exposed Carcass. *International Journal of Scientific and Innovative Research*, 3(1): 46-50, P-ISSN2347-2189, E-ISSN 2347-4971
15. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2015**). Pupal Diapause in Flesh fly *Sarcophaga* *dux*. *International Journal of Scientific and Innovative Research*, 3(1): 51-54, P-ISSN 2347-2189, E-ISSN 2347-4971
16. **Kalpana Singh** and Shilpa Nandan **(2017):** Effect of Plant Extracts on Mosquito Population.*International Journal of Scientific and Innovative Research,* 5 (2): 55-62, P-ISSN 2347-2189, E- ISSN 2347-4971
17. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2018**): Response of Adult Eclosion of *Sarcophaga* *dux* on different Pupation Substrates. *International Journal of Biological Sciences*, 8(1): 59-61, ISSN: 0976-4518
18. **Kalpana Singh (2018):** Aging in Insects: An Overview.*International Journal of Scientific and Innovative Research,* 6 (2): 12-19, P-ISSN 2347-2189, E- ISSN 2347-4971
19. Reema Sonker, Sunita Rawat and **Kalpana Singh (2018):** Factors Affecting Arthropod Succession on a Dead Animal.*International Journal of Scientific and Innovative Research,* 6 (1); 11-22, P-ISSN 2347-2189, E- ISSN 2347-4971
20. Shilpa Nandan & **Kalpana Singh** (**2019**). Dengue Epidemiology. *International Journal on Biological Sciences,* 10 (2): 86-89, ISSN No.: 0976-4518
21. Shilpa Nandan, Reena Kumari Chaudhary **& Kalpana Singh** (2022). Survey of Mosquito Diversity in Different Areas in and Around Lucknow (UP) in Different Season. Annals of Forest Research, 65 (1): 3929-3937, ISSN No. 18448135, 20652445
22. Reena Kumari Chaudhary, Shilpa Nandan **& Kalpana Singh** (2022). Survey of Mosquito Population In and Around Lucknow (UP) Region. International Joirnal of Food And Nutritional Sciences, 11 (3): 3356-3365 ISSN No. 23191775 Online 23207876
23. Jaipal Bhargava **& Kalpana Singh** (2022). Comparative Study of Mulberry Silkworm (Bombyx mori L.) Rearing in Persendi (Chaki) Block Region of Sitapur District And In-Vitro Studies in Lucknow Region. International Journal of Food And Nutritional Sciences, 11 (3): 3402-3412 ISSN No. 23191775 Online 23207876

**(c) Book Chapters**

1. **Kalpana Singh** (**2014**). Forensic Entomology: Avenues and Challenges. In *Functional Biology and Biotechnology, 16-19, ISBN: 978-93-83083-58-9*
2. Reema Sonker, Sunita Rawat & **Kalpana Singh** (**2014**). Seasonal Influence on the variety and occurrence pattern of Dipteran flies over carrion.In *Biodiversity and Environment, 70-73, ISBN: 978-93-83083-57-2*
3. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2014**). Seasonal Variation in Growth and Development of a Forensically Important Flesh Fly, *Sarcophaga* *dux* (W.). In *Functional Biology and Biotechnology, 51-55, ISBN: 978-93-83083-58-9*
4. **Kalpana Singh** (**2015**). Use of Molecular Techniques in Assessment of Biodiversity of Forensic Fauna. In *Biodiversity, Environment and Functional Biology, 98-101, ISBN: 978-93-84935-15-3*
5. Reema Sonker, Sunita Rawat & **Kalpana Singh** (**2015**). Biodiversity of Forensic Fauna: Coleoptera. In *Biodiversity, Environment and Functional Biology, 93-97, ISBN: 978-93-84935-15-3*
6. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2015**). Myiasis. In *Biodiversity, Environment and Functional Biology, 181-185, ISBN: 978-93-84935-15-3*
7. Reema Sonker and **Kalpana Singh** (**2018**). Ecological Influence on the Forensically Important Flies of the Family Calliphorida. *Xenobiotics, Environment and Functional Biology*. AMIGA Press Inc, 221-231; ISBN: 978-93-84533-51-9
8. **Kalpana Singh** (**2019**). Tasar Sericulture: A Promising Venture. *Recent Trends in Science, Technology, Agriculture and Management*. Oura Prakashan & Book Distributors Pvt. Ltd., 234-237; ISBN: 978-81-935728-4-9
9. Reema Sonker & **Kalpana Singh** (**2019**). Seasonal comparision of diversity of forensically important dipteran fauna of Kanpur U.P., India. *Recent Trends in Science, Technology, Agriculture and Management*. Oura Prakashan & Book Distributors Pvt. Ltd., 91-95; ISBN: 978-81-935728-4-9
10. Jaipal Bhargava & **Kalpana Singh** (**2019**). Impact of environmental variations on tropical tasar silkworm. *Recent Trends in Science, Technology, Agriculture and Management*. Oura Prakashan & Book Distributors Pvt. Ltd., 86-90; ISBN: 978-81-935728-4-9
11. Shilpa Nandan & **Kalpana Singh** (**2019**). A report on current status & management of dengue. *Recent Trends in Science, Technology, Agriculture and Management*. Oura Prakashan & Book Distributors Pvt. Ltd., 234-237; ISBN: 978-81-935728-4-9
12. Reena Kumari Chaudhary & **Kalpana Singh** (**2019**). Effect of climatic factors on malaria incidences. *Recent Trends in Science, Technology, Agriculture and Management*. Oura Prakashan & Book Distributors Pvt. Ltd., 195-202; ISBN: 978-81-935728-4-9

### (d) Popular Science Articles

1. **Kalpana Singh** and Reema Sonker (**2015**). Wriggling Witnesses. *Science Reporter*, 52(7), 20-22; ISSN 0036-8512
2. **Kalpana Singh (2017).** Bio-Control: A Buzz Word**.** Sri JNPG College, *REVELATION* a journal of popular Science. 1(1), 67-69;ISSN 2456-7698
3. **Kalpana Singh** (**2018**). Friendly Foes: The Bio-control Agents. Sri JNPG College, *REVELATION* a Journal of Popular Science. 2(1), 56-57, ISSN 2456-7698
4. **Kalpana Singh** and Shilpa Nandan(**2019**). *Aedes* Mosquito: Harbinger of Dread. Sri JNPG College, *REVELATION* a Journal of Popular Science. 3(1), 57-59, ISSN 2456-7698

**(e) Oral Presentations in Conferences / Symposia**

1. **Kalpana Singh** & Omkar (**2005**) Demographic attributes of an aphidophagous ladybird beetle under three photoperiodic regimes. Proceedings of the **93rd Session of Indian Science Congress Association held at Hyderabad** from Jan. 3-7, 2006
2. **Kalpana Singh** (**2013**) Biodiversity of Insect Fauna: Concerns & Conservation. Proceedings of the **“National Seminar on Changing Environment and Biodiversity”. (March, 24).** Department of Zoology, Navyug Kanya Mahavidyalaya,Lucknow (U.P.).
3. **Kalpana Singh** (**2016**). Forensic Entomology: A Boon for Legal Scenario. Presented in **National Seminar on Environmental Health *vis-s-vis* Human Welfare In Present Scenario** (April18-19, 2016). Department of Zoology, D.A.V. (P.G.) College, Dehradun, Uttarakhand
4. **Kalpana Singh (2017). Impact of Climate and Environmental Changes on Muscid flies.** Presented in **National Conference on Climate and Environmental Changes: Impact, Challenges and Solutions** (Feb 28-March 01). Sacred Heart Degree College, Sitapur (UP).
5. **Kalpana Singh (2017).** Importance of Biostatistics in Biodiversity and Succession Studies.Presented in **International Conference on Biological Sciences and Bio-Statistics** (Current Scenario and Future Prospects) ICBS-2017 (09-10 March, 2017). School of Science, U.P. Rajarshi Tandon Open University, Allahabaad, U.P., India
6. **Kalpana Singh** (**2017**). Impact of Ecological Imbalance on Entomo-Fauna. Presented in**National Conference on Ecological Imbalance: A threat to Flora, Fauna, Economy and Human Survival** (Sep. 22-23)held at Department of Zoology, DDU Government PG College, Saidabad, Allahabad (UP).
7. **Kalpana Singh** (**2018**). Environmental Management for Vector-Borne Diseases Control. Presented in**International Symposium on Indiscriminate development: Current Scenario & Scio-Environmental Challenges (IDCSC 2018)** (Mar. 18-19)held at Botanical Survey of India, CRC, Allahabad (UP).
8. **Kalpana Singh** (**2018**). Effect of Climatic Factors on Malaria Incidences. Presented in**International Conference on Sustainable Development Strategies and Emerging Trends** (Nov. 16-17, 2018)held at NetaJi Subhas Chandra Bose Government Girls PG College, Aliganj, Lucknow (UP).

**(f) Chapters in Proceedings**

1. **Kalpana Singh** (**2017**). Impact of Climate and Environmental Changes on Muscid Flies. *Proceedings of Climate and Environmental Changes: Impacts, Challenges and Solutions* held at Sacred Heart Degree College and DDUGPG, Sitapur. (36-39); ISBN: 978-93-86148-89-6
2. **Kalpana Singh** & Shilpa Nandan(**2017**). Mosquito Population: Impact of Climate and Environmental Changes and its Management Strategies. *Proceedings of Climate and Environmental Changes: Impacts, Challenges and Solutions* held at Sacred Heart Degree College and DDUGPG, Sitapur. (7-15); ISBN: 978-93-86148-89-6
3. **Kalpana Singh,** Anil Kumar & Reema Sonker(**2017**). Biodiversity of Calliphorid Flies. *Proceedings of Climate and Environmental Changes: Impacts, Challenges and Solutions* held at Sacred Heart Degree College and DDUGPG, Sitapur. (48-53); ISBN: 978-93-86148-89-6
4. Reema Sonker & **Kalpana Singh** (**2017**). Impact of Climatic changes on Forensic Entomo Fauna. *Proceedings of Climate and Environmental Changes: Impacts, Challenges and Solutions* held at Sacred Heart Degree College and DDUGPG, Sitapur. (30-35); ISBN: 978-93-86148-89-6
5. **Kalpana Singh** **(2018)**. Impact of Ecological Imbalance on Entomo-Fauna. Proceedings of Ecological Imbalance: A Threat to Flora Fauna, Economy and Human Survival held at Government Post Graduate College, Saidabad, Allahabad (UP) (12-14); ISBN: 978-81-931262-2-6
6. **Kalpana Singh** & Shilpa Nandan **(2018).** Effect of Certain Medicinal Plant Extracts on *Culex* Population. Proceedings of Ecological Imbalance: A Threat to Flora Fauna, Economy and Human Survival held at Government Post Graduate College, Saidabad, Allahabad (UP) (115-119); ISBN: 978-81-931262-2-6

**(g) Abstracts in Conferences / Symposia**

1. **Kalpana Singh** & Omkar (**2005**) Demographic attributes of an aphidophagous ladybird beetle under three photoperiodic regimes. Proceedings of the **93rd Session of Indian Science Congress Association held at Hyderabad** from Jan. 3-7, 2006
2. **Kalpana Singh** (**2013**) Biodiversity of Insect Fauna: Concerns & Conservation. Proceedings of the **“National Seminar on Changing Environment and Biodiversity”. (March, 24).** Department of Zoology, Navyug Kanya Mahavidyalaya,Lucknow (U.P.).
3. Reema Sonker & **Kalpana Singh** (2013). Biodiversity of forensic fauna: Coleoptera, presented at **National seminar on changing environment and Biodiversity (March, 24).** Department of Zoology, Navyug Kanya Mahavidyalaya,Lucknow (U.P.).
4. Reema Sonker & **Kalpana Singh** (**2013**). Forensic insects: Natural Scavengers, presented at **National seminar on Environment Degradation and Aquaculture (April, 28).** Post - Graduate Department of Zoology, Bappa Sri Narayan Vocational P.G. College, Lucknow (U.P.).
5. Sunita Rawat & **Kalpana Singh** (**2013**). Biodiversity of Forensic Fauna of Diptera, presented at **National seminar on changing environment and Biodiversity (March, 24).** Department of Zoology, Navyug Kanya Mahavidyalaya,Lucknow (U.P.).
6. Sunita Rawat & **Kalpana Singh** (**2013**). Role of Forensic Insects in Ecological Recycling, Presented at **National Seminar on Environment Degradation and Aquaculture (April, 28).** Post - Graduate Department of Zoology, Bappa Sri Narayan Vocational P.G. College, Lucknow (U.P.).
7. Reema Sonker & **Kalpana Singh** (**2014**). Effect of Seasonal Variation on Insect Succession Over a dead animal, Presented at **International conference on environmental technology and sustainable development: challenges & remedies (February, 21-23).** Department of Environmental Science, Baba Saheb Bhimrao Ambedkar University (A Central University), Lucknow (U.P.).
8. Reema Sonker, Sunita Rawat & **Kalpana Singh** (**2014**). Biodiversity of Hymenoptera of Forensic Importance, Presented at **International symposium on Biodiversity: Status, Utilization and impact of Challenging climatic conditions (October, 30-31)**. Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow (U.P.).
9. Reema Sonker, Sunita Rawat & **Kalpana Singh** (2014). Solar Energy: A Promise of Bright Future, Presented at **National Conference on Environmental Protection and Sustainable Development (June 5-6).** Sky Institute, Lucknow (U.P.).
10. Reema Sonker,Sunita Rawat & **Kalpana Singh** (**2014**). Importance of Ants in Forensic Entomology, Presented at **National seminar on Threats to biodiversity and Ecosystems: Impacts of developmental projects and climate change and 25th All India Congress of Zoology (November, 17-19).** Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar (U.P.).
11. Sunita Rawat & **Kalpana Singh** (**2014**). Studies on role of insects in eco- recycling, Presented at **International conference on environmental technology and sustainable development: challenges & remedies (February, 21-23).** Department of Environmental Science, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow (U.P.).
12. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2014**). Species diversity of some carrion flies: Indicators of time since death, Presented at **International symposium on Biodiversity: Status, Utilization and impact of Challenging climatic conditions (October, 30-31)**. Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow (U.P.).
13. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2014**). Role of Phorid Flies in Forensic Entomology, Presented at **National conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity (November, 2-3)** -Shibli College, Azamgarh (U.P.).
14. Sunita Rawat, Reema Sonker & **Kalpana Singh** (**2014**). Influence of low temperature on the development of larval stages of a Sarcophagus Fly, Presented at **National seminar on Threats to biodiversity and Ecosystems: Impacts of developmental projects and climate change and 25th All India Congress of Zoology (November, 17-19).** Department of Zoology and Environmental Science, Gurukul Kangri University, Haridwar (U.P.).
15. Sunita Rawat, Reema Sonker& **Kalpana Singh** (**2015**). Rearing of Dipteran Fauna over Decaying Organic Substrates and Different Types of Carrion Baits, Presented at **26th All India Congress of Zoology and International Symposium on Innovation in Animal Sciences for Food Security, Health Security and Livelihood-2015 (October 29-31).** BabaSaheb Bhimrao Ambedker University (Central University), Lucknow (U.P.).
16. Sunita Rawat, Reema Sonker& **Kalpana Singh** (**2015**). Survey of Disease Causing Dipteran Fly Fauna in Lucknow and Outskirts, Presented at **National Seminar on the legacy of Awadh (March 16-17).** Maharaja Bijli Pasi Government PG College, Ashiyana, Lucknow (U.P.).
17. Reema Sonker,Sunita Rawat, & **Kalpana Singh** (**2015**). Succession and life cycle of beetles on exposed carcasses, Presented at **National conference on environmental protection and sustainable development (April 8-9).** Sky Institute, lucknow (U.P.).
18. Reema Sonker,Sunita Rawat, & **Kalpana Singh** (**2015**). Determination of Forensically Important Species of Coleoptera in Summer Season of Kanpur Region, Presented at **26th All India Congress of Zoology and International Symposium on Innovation in Animal Sciences for Food Security, Health Security and Livelihood-2015 (October 29-31).** BabaSaheb Bhimrao Ambedker University (Central University), Lucknow (U.P.).
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