




Faculty Details Proforma

Title	Dr.	First Name	Anna	Last Name	Senrung	Photograph
Designation	Assistant Professor					
Address						
Phone No. Office	-					
Residence	-					
Mobile No.						
Email – ID	annasenrung@dr.du.ac.in , annasenrung@gmail.com					
Web Page	-					
Educational Qualification						
Degree	Institution				Year	
Ph.D. Zoology	Department of Zoology, University of Delhi				2023	
M.Phil. Zoology	Department of Zoology, University of Delhi				2011	
M.Sc. (Hons) Zoology	Department of Zoology, University of Delhi				2004	
B.Sc. (Hons) Zoology	Kirori mal College, University of Delhi				2001	
10+2	Manipur board				1998	
Career Profile						
2015 onwards	Daulat Ram College on a permanent basis					
2014-2015	Daulat Ram College on an ad-hoc basis					
2012-2013	Miranda House College on an ad-hoc basis					
2010	Miranda House College on an ad-hoc basis					
Administrative Assignments						
1. Serving as a member of the Hostel Committee for the 2024-2025 academic year.						
2. Serving as a member of the DHARA Eco Club for the 2024-2025 academic year.						
3. Serving as a member of the Student Amenities Committee for the 2023-2025 academic year.						
4. Served as a member of the Admission Helpdesk for the 2023-2024 academic year.						
5. Served as a representative of the Zoology Department, Daulat Ram College, on the College Discipline Committee during the 2018-2019 academic year.						
6. Served as a representative of the Zoology Department, Daulat Ram College, on the College Library Committee during the 2018-2019 academic year.						
7. Served as the in-charge of the Zoology Departmental Library for the 2018-2019 academic year.						
8. Served as Co-convenor of the Zoological Society for the 2017-2018 academic year.						
9. Served as a member of the Hostel Admission Committee for the 2017-2018 academic year.						
10. Served as Nodal Officer for North East Cell DRC, 2016-2018 academic year.						
11. Served as a member of the Admission Core Committee for the 2016-2017 academic year.						

12. Served as a member of the Screening Committee for Assistant Professor applications in English, Sanskrit, and Commerce at Daulat Ram College, University of Delhi.

Areas of Interest / Specialization

Tumor angiogenesis, Dietary cancer incidences, Nanotechnology, Insect Pest management.

Subjects Taught

Diversity of Animals, Animal Physiology, Apiculture, Developmental biology, Ecology, Evolutionary Biology.

Research Guidance

Fundamental Techniques in Cancer Research (8)

1. **Sakshi Lalwani**, B.Sc. (H) Zoology, DRC, University of Delhi; 2022-2023
2. **Jasleen Kaur**, B.Sc. (H) Zoology, DRC, University of Delhi; 2022-2023
3. **Netra Ghuratia**, B.Sc. (H) Zoology, DRC, University of Delhi; 2022-2023
4. **Nidhi Bharadwaj**, B.Sc. (H) Zoology, DRC, University of Delhi; 2023-2024
5. **Hangsika Sharma**, B.Sc. (H) Zoology, DRC, University of Delhi; 2023-2024
6. **Chetna**, B.Sc. (H) Zoology, DRC, University of Delhi; 2023-2024
7. **Shreya Pandey**, B.Sc. (H) Zoology, DRC, University of Delhi; 2023-2024
8. **Kanishka Sharma**, B.Sc. Life Sciences. DRC, University of Delhi; 2023-2024
9. **Shivangi Upadhyay**, B.Sc. (H) Biochemistry, DRC, University of Delhi; 2023-2024
10. **Tanya Dwivedi**, B.Sc. (H) Biochemistry, DRC, University of Delhi; 2023-2024
11. **Sania**, B.Sc. (H) Biochemistry, DRC, University of Delhi; 2023-2024

In silico Drug Screening/Discovery (Co-mentor) (3)

1. **Nidhi Bharadwaj**, B.Sc. (H) Zoology, DRC, University of Delhi. “*In Silico* analysis of phytochemicals from *Calotropis gigantea* for potential therapeutic use against gastric cancer”, since 2024.
2. **Hangsika Sharma**, B.Sc. (H) Zoology, DRC, University of Delhi. “*In Silico* screening of phytochemicals from *Cassia fistula* for potential therapeutic applications against Glioblastoma”, since 2024.
3. **Shreya Pandey**, B.Sc. (H) Zoology, DRC, University of Delhi. “*In Silico* screening of phytochemicals from *Zingiber officinale* for potential therapeutic applications against HPV-induced cervical cancer”, since 2024.

Publications Profile

Publications – Full length articles - 28; e-Chapters - 2; Abstract – 7; Book edited – 2; E-Content for UG & PG Course – 9; Articles in Magazine - 3.

Research Publications:

1. Yadav J, Tripathi T, Chaudhary A, Janjua D, Joshi U, Aggarwal N, Chhokar A, Keshavam CC, **Senrung A**, Bharti AC. Influence of head and neck cancer exosomes on macrophage polarization. Cytokine. 2025 Feb;186:156831. doi: 10.1016/j.cyto.2024.156831. Epub 2024 Dec 18. PMID: 39700664.
2. **Senrung, A.**; Kumar, D.; Bhardwaj, N.; Sharma, K.; Sharma, H.; Pandey, S.; Thakur, M.; Meena, S.; Mathur, D. Discovery of Novel Bioactive Compounds in Catharanthus Roseus Exhibiting Anti-Angiogenic Activity Against VEGFR-2 TKD for Glioblastoma Tumor Growth Suppression. Biomed Ther Lett 2024, 11 (2), 912. <https://doi.org/10.62110/sciencein.btl.2024.v11.912>.

3. Yadav J, Chaudhary A, Tripathi T, Janjua D, Joshi U, Aggarwal N, Chhokar A, Keshavam CC, **Senrung A**, Bharti AC. Exosomal transcript cargo and functional correlation with HNSCC patients' survival. *BMC Cancer*. 2024 Sep 13;24(1):1144. doi: 10.1186/s12885-024-12759-9. PMID: 39272022; PMCID: PMC11395213.
4. Janjua D, Thakur K, Aggarwal N, Chaudhary A, Yadav J, Chhokar A, Tripathi T, Joshi U, **Senrung A**, Bharti AC. Prognostic and therapeutic potential of STAT3: Opportunities and challenges in targeting HPV-mediated cervical carcinogenesis. *Crit Rev Oncol Hematol*. 2024 May;197:104346. doi: 10.1016/j.critrevonc.2024.104346. Epub 2024 Apr 10. PMID: 38608913.
5. Tripathi T, Yadav J, Janjua D, Chaudhary A, Joshi U, **Senrung A**, Chhokar A, Aggarwal N, Bharti AC. Targeting Cervical Cancer Stem Cells by Phytochemicals. *Curr Med Chem*. 2024;31(32):5222-5254. doi: 10.2174/0109298673281823231222065616. PMID: 38288813.
6. **Senrung A**, Tripathi T, Janjua D, Yadav SK, Chhokar A, Aggarwal N, Yadav J, Chaudhary A, Joshi U, Sethi P, Bharti AC. Chick chorioallantoic membrane: a valuable 3D in vivo model for screening nanoformulations for tumor antiangiogenic therapeutics. *Int J Dev Biol*. 2023;67(4):115-135. doi: 10.1387/ijdb.230198pb. PMID: 38334179.
7. **Senrung A**, Tripathi T, Yadav J, Janjua D, Chaudhary A, Chhokar A, Aggarwal N, Joshi U, Goswami N, Bharti AC. In vivo antiangiogenic effect of nimbolide, trans-chalcone and piperine for use against glioblastoma. *BMC Cancer*. 2023 Nov 30;23(1):1173. doi: 10.1186/s12885-023-11625-4. PMID: 38036978; PMCID: PMC10691152.
8. **Senrung A**, Tripathi T, Aggarwal N, Janjua D, Chhokar A, Yadav J, Chaudhary A, Thakur K, Singh T, Bharti AC. Anti-angiogenic Potential of Trans-chalcone in an In Vivo Chick Chorioallantoic Membrane Model: An ATP Antagonist to VEGFR with Predicted Blood-brain Barrier Permeability. *Cardiovasc Hematol Agents Med Chem*. 2024;22(2):187-211. doi: 10.2174/0118715257250417231019102501. PMID: 37936455.
9. **Senrung A**, Tripathi T, Aggarwal N, Janjua D, Yadav J, Chaudhary A, Chhokar A, Joshi U, Bharti AC. Phytochemicals Showing Antiangiogenic Effect in Pre-clinical Models and their Potential as an Alternative to Existing Therapeutics. *Curr Top Med Chem*. 2024;24(4):259-300. doi: 10.2174/0115680266264349231016094456. PMID: 37867279.
10. **Senrung A**, Lalwani, S., Janjua, D., Tripathi, T., Kaur, J., Ghuratia, N., Aggarwal, N., Chhokar, A., Yadav, J., Chaudhary, A., Joshi, U., Bharti, AC. 3D tumor spheroids: morphological alterations a yardstick to anti-cancer drug response. *In vitro models* 2, 219–248 (2023). <https://doi.org/10.1007/s44164-023-00059-8>
11. Thakur K, Janjua D, Aggarwal N, Chhokar A, Yadav J, Tripathi T, Chaudhary A, **Senrung A**, Shrivastav A, Bharti AC. Physical interaction between STAT3 and AP1 in cervical carcinogenesis: Implications in HPV transcription control. *Biochim Biophys Acta Mol Basis Dis*. 2023 Dec;1869(8):166817. doi: 10.1016/j.bbadis.2023.166817. Epub 2023 Jul 31. PMID: 37532113.
12. Thakur M., Bhardwaj S., Singh J., **Senrung A.**, Singh J. Three Years of Covid-19 – A Review on India's Journey through Different Variants and Waves (2023), *IJRTI*, 8(1), ISSN: 2456-3315.
13. Thakur K., Janjua D., Shishodia G., Chhokar A., Aggarwal N., Yadav J., Tripathi T., Chaudhary A., **Senrung A.**, Bharti A.C. Investigation of Molecular Mechanisms Underlying JAK/STAT Signaling Pathway in HPV-induced Cervical Carcinogenesis using „Omics“ Approach (2022), *Medical Oncology*. 12;39(12):255. doi: 10.1007/s12032-022-01854-1. PMID: 36224441.
14. Jyotsna Singh, **Anna Senrung**, Smriti Sharma, Tenzin Nyibum Bhutia, Mayanglambam Rojina, Ashok Kumar Singh (2017). Influence of temperature on the survival and

development of cowpea aphid, *Aphis craccivora* (Hemiptera: Aphididae). Indian Journal of Entomology. 79(1):111-114. Print ISSN: 0367-8288. Online ISSN: 0974-8172.

15. **Anna Senrung**, Jyotsna Singh, Smriti Sharma, Tenzin Nyibum Bhutia, Ashok Kumar Singh (2014). Effect of *Murraya Koenigii* extracts on the feeding and oviposition response of *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae). Journal of Entomology and Zoological studies. 2 (3): 27-31. ISSN 2320-7078.
16. Smriti Sharma, **Anna Senrung**, Ashok Kumar Singh (2014). Toxic effect of neem, *Azadirachta indica* (A. Juss) foliage extracts against diamondback moth (DBM), *Plutella xylostella* (L.) (Lepidoptera, Plutellidae). JBiopest. 7(1): 1-7. ISSN 2230-8385.

Publications in Edited Book:

1. **Anna Senrung**, John Linglee Anal, Meenakshi Thakur (2021), COVID-19 Incidence, Transmission and Best Containment Practices: Study of India, Global Pandemic: Responses and Solutions, Shree Vinayak Publication, Agra, ISBN: 978-93-91267-07-0. Editors: J.G.VALAN ARASU, ANJALI D'SOUZA, FEMINA SOBIN, ROSHNI CHAUBEY
2. Meenakshi Thakur, **Anna Senrung**, John Linglee Anal (2021), Covid 19-A Lesson for Protecting Biodiversity, Global Pandemic: Responses and Solutions, Shree Vinayak Publication, Agra, ISBN: 978-93-91267-07-0. Editors: J.G.VALAN ARASU, ANJALI D'SOUZA, FEMINA SOBIN, ROSHNI CHAUBEY
3. SR. John Linglee Anal and **Anna Senrung** (2019). Brief Account of the Folklore of the Tribes of Chandel District, Manipur, India". International Conference on "North East India: Exploring Philosophy, Culture & Environmental Sustainability". Krishi Sanskriti Publications. ISBN: 978-93-85822-90-2. Editors:
4. **Anna Senrung**, John Linglee Anal, Prerna Joshi, Gunjan Malik, Sonali Jha, Saumya Avasthy (2018). Indigenous Fermented Food Habits of Manipur and Nagaland. In S. Mehta & A. Senrung (Eds.), North-East India: The Untapped Tourism Industry, pp45-52. Krishi Sanskriti Publications. ISBN: 978-93-85822-65-0.
5. **Anna Senrung**, John Linglee Anal, Tanya Aggarwal, Kaushki Pandey (2018). Manipur: The Neglected Tourism Glory. National Conference on, "North East India: The Untapped Tourism Industry". Krishi Sanskriti Publications. ISBN: 978-93-85822-65-0.

Conference Proceedings as a full-length paper:

1. Himani Sharma, Garima Walia, Sarita Nanda, **Anna Senrung** and Anju Jain (2016). Healthy living and sleep. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 1. Pp 25-27.
2. Ankita Kathpal, Additi Verma, Kriti Verma, Shivani Nagar, **Anna Senrung**, Sarita Nanda and Anju Jain (2016). Ayurveda: The Hidden Medication. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 1. Pp 51-54.
3. Alka Rao, Sarita Nanda, Akshita Kaushik, Anju Jain and **Anna Senrung** (2016). India's Nutritional Crisis. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 1. Pp 117-118.
4. Tanya Aggarwal, Kaushki Pandey, Anju Jain, Sarita Nanda and **Anna Senrung** (2016). The Diaper Dilemma. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 1. Pp 43-45.
5. S. Sudha, Reshma V. Menon, Priyanka Verma, Sakshi Shukla, **Anna Senrung**, Sarita Nanda and Anju Jain (2016). Precocious puberty in Girls. International Conference on

Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 1. Pp 150-154.

6. Muskan Kharbanda, Anju Jain, Anna Senrunga and Sarita Anand (2016). Skin care by Natural Ways. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 2.
7. Muskan Kharbanda, Anju Jain, Anna Senrunga and Sarita Anand (2016). Skin care by Natural Ways-II. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications. Vol. 2.

e-Chapters:

1. Manoj Kumar Kashyap, Anjali Bhat, Divya Janjua, Rashmi Rao, Kulbhushan Thakur, Arun Chhokar, Nikita Aggarwal, Joni Yadav, Tanya Tripathi, Apoorva Chaudhary, **Anna Senrunga**, Alok Chandra Bharti. Chapter 20 - Role of angiotensin in different malignancies (2023). Editor(s): Paul M. Pilowsky, In Molecular Mediators in Health and Disease: How Cells Communicate, Angiotensin, Academic Press, 2023, Pages 505-544, ISBN 9780323996181, <https://doi.org/10.1016/B978-0-323-99618-1.00019-2>.
2. Yadav, J., Aggarwal, N., Chaudhary, A., Tripathi, T., Baruah, D., Chhakara, S., Janjua, D., Chhokar, K., Thakur, K., **Senrunga, A.**, Chandra Bharti, A. (2022). Role of Exosomes in Tumor Induced Neo-Angiogenesis. IntechOpen. doi: 10.5772/intechopen. ISBN: 104400. 978-1-80355-835-6, Print ISBN: 978-1-80355-834-9, eBook (PDF) ISBN: 978-1-80355-836-3, Published: 27 July 2022. Academic Editor: Ke Xu, Tianjin Medical University General Hospital, China. Publisher: IntechOpen.

Conference Proceedings as an Abstracts:

1. **Anna Senrunga**, Tanya Tripathi, Nikita Aggarwal, Divya Janjua, Arun Chhokar, Joni Yadav, Apoorva Chaudhary, Kulbhushan Thakur, Udit Joshi, and Alok Chandra Bharti. Potential of Trans-Chalcone in-vivo: ATP Antagonist to VEGFR with predicted blood-brain barrier permeability". 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on "Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases" from October 7-9, 2022, held at Department of Zoology, University of Delhi. ISBN
2. **Senrunga A**, Goswami N, Singh K, Sethi P and Jyoti A (2020). Optimization of ex-vivo model system for anti-glioma drug screening and delivery. International Conference on Natural Products and Human Health (ICNPHH-2020) organised by the Department of Zoology, Deshbandhu College, University of Delhi, at University Conference Center, University of Delhi, on 27th February 2020. ISBN 9788194428237.
3. Ikla Subba, Anju Jain, Sarita Nanda and **Anna Senrunga** (2016). Phytoremediation plants for metal contaminated soils. International Conference on Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016) held at Daulat Ram College, Delhi University from 17th -18th November, 2016.
4. Anurag Malik, Jeev Prabha, **Anna Senrunga**, Sarita Nanda and Anju Jain (2016). Natural Mosquito Repellent. International Conference on Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016) held at Daulat Ram College, Delhi University from 17th -18th November, 2016.
5. Mansi Ujjainwala, Himanshi Kwatara, Sonali Gupta, Sarita Nanda, Anju Jain and **Anna Senrunga** (2016). Environmental pollution and Non Communicable diseases in India. International Conference on Green Chemistry in Environmental sustainability & Chemical

Education (ICGC-2016) held at Daulat Ram College, Delhi University from 17th -18th November, 2016.

6. Anuradha Sharma, Arpita Bhatt, Zainab Afreen, **Anna Senrung**, Dr. S. Nanda and Dr. Anju Jain (2016). Food safety. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications.
7. Anannya Chatterjee, **Anna Senrung**, Sarita Nanda and Anju Jain (2016). Dance Therapy: Effects on the Human Psyche. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016). ISBN-978-93-85822-10-0. ©Krishi Sanskriti Publications.
8. Anuradha Sharma, Zainab Afreen, Nikita Sharma, Arpita Bhatt, **Anna Senrung**, Anju Jain, Sarita Nanda (2016). Female contraceptives: Boon or Bane? National Symposium on Reproductive Health in India 2016 @ Deshbandhu College, DU.

Books/Papers Edited:

1. North East India: Exploring Philosophy, Culture & Environmental Sustainability. Krishi Sanskriti Publications. 2019. ISBN: 978-93-85822-90-2
2. North East India: The Untapped Tourism Industry. Krishi Sanskriti Publications. March-2018. ISBN: 978-93-85822-65-0

E-Content for Undergraduate and Postgraduate Courses:

1. Developed an E-lesson for a Postgraduate Course entitled, "Neuro-endocrine Physiology: Classification of Hormones" for NME-ICT in Zoology under the MHRD Project. 2017. [1518689368M14ClassificationofHormonesQuad1.pdf](http://vle.dr.du.ac.in/mod/resource/view.php?id=10731)
2. Developed an E-lesson for a Postgraduate Course entitled, "Neuro-endocrine Physiology: Hypothalamic Hormones for NME-ICT in Zoology under MHRD Project. 2017. [1518690587M18HypothalamicHormonesQuad1.pdf](http://vle.dr.du.ac.in/mod/resource/view.php?id=10731)
3. Developed E-lesson for an Undergraduate Course entitled, "Morphology & Physiology of *Paramecium*" of paper Non-Chordata (Subject Zoology) (2015). Virtual Learning Environment, Institute of Lifelong Learning, University of Delhi. ISSN-2349-154X. <http://vle.dr.du.ac.in/mod/resource/view.php?id=10731>
4. Developed E-lesson for Undergraduate Course entitled, "Mitosis and Meiosis: A genetic perspective" (2015) for NME-ICT in Zoology. ISSN-2349-154X. <http://vle.dr.du.ac.in/mod/tab/view.php?id=8144#tab6>
5. Co-authored E-lesson for an Undergraduate Course entitled, "Extension of Mendelian Genetics" (2015) for NME-ICT in Zoology. ISSN-2349-154X. <http://vle.dr.du.ac.in/mod/tab/view.php?id=8144#tab6>
6. Co-authored E-lesson for Undergraduate Course entitled, "Linkage and Crossing-over" (2015) for NME-ICT in Zoology. ISSN# 2349-154X. <http://vle.dr.du.ac.in/mod/tab/view.php?id=8144#tab6>

Articles in Magazine:

1. Sarita Nanda, Anju Jain, **Anna Senrung** and Yashika Jawa. Hormonal Imbalance in Women due to Lifestyle Changes. *Pramila*, Women Development Cell, DRC.
2. Sarita Nanda, Anju Jain, **Anna Senrung** and Nikita Sharma. III Effect of Contraceptives. *Pramila*, Women Development Cell, DRC.
3. Sarita Nanda, Anju Jain, **Anna Senrung** and Pranjul Sharma. The 'Pink Ribbon'. *Pramila*, Women Development Cell, DRC.

Conference Organization/Presentation

Conference organization

1. Member of organizing Committee in the 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on “Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” from October 7-9, 2022, held at Department of Zoology, University of Delhi.
2. Convener of International Conference on, ‘North East India: Exploring Philosophy, Culture and Environmental Sustainability’ held at Daulat Ram College in collaboration with ICPR & P.A. Sangma Foundation from 10th & 11th January 2019.
3. Convener of National Conference on, ‘North East India: The Untapped Tourism Industry’ held at Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region (DoNER), Government of India, from 15th to 16th March 2018.
4. Member of organizing committee for, “International Conference on Public Health, 2016” held at Daulat Ram College, Delhi University in collaboration with Krishi Sanskriti, New Delhi, India (15th & 16th January 2016).

Conference Presentation

1. Presented a Research paper (Oral presentation) on “Nurturing Nature: The convergence of religious beliefs and environmental concerns within the Indian context”, in a Hybrid National Seminar on Traditional Knowledge Systems and Biodiversity from 16-17th January 2025, organised by Vimala College (Autonomous) Thrissur, Kerala.
2. Presented a Research Paper (Poster Presentation) on “Anti-angiogenic Potential of Trans-Chalcone in-vivo: ATP Antagonist to VEGFR with predicted blood-brain barrier permeability”, in the 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on “Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” from October 7-9, 2022, held at Department of Zoology, University of Delhi.
3. Presented a Research Paper (Poster Presentation) on “Assessment of Antiangiogenic Potential of Phytochemicals against Glioblastoma in an Ex-Ovo Model System”, in RMBPD-2022: International Colloquium on “Deciphering Bioregulatory Mechanism in Health and Disease using „omics” Approach” from 24th-25th February 2022, held at Department of Zoology, University of Delhi.
4. Presented a Research paper (Oral presentation) on “Covid-19 Incidence, Transmission and Best Containment Practices: A Study of India”, at an Online National conference on “Life Sciences challenges and opportunities: Covid-19 Pandemic” from 1st-2nd June 2020, organised by Faculty of Life Sciences, St. Aloysius’ College (Autonomous), Jabalpur (M.P.).
5. Presented a Research Paper (Poster Presentation) on “Optimization of *ex-vivo* model system for anti-glioma drug screening and delivery”, in ICNPHH – 2020: International Conference on “Natural Products and Human Health – 2020” from 27th-29th February 2020, held at the University of Delhi, New Delhi, India.
6. Presented a Research Paper (Poster Presentation) on “Ex-vivo Model System to Characterise and Optimise Nanoparticles used in Cancer Nanotherapeutics” at the 39th Annual Conference of the Indian Association for Cancer Research (IACR 2020), from 5th to 7th February, 2020, held at Thiruvananthapuram, Kerala, India.
7. Presented a Research Paper (Oral Presentation) on “Brief Account of the Folklore of the Tribes of Chandel District, Manipur, India” at an International Conference on “North East India: Exploring Philosophy, Culture & Environmental Sustainability” organised by Daulat Ram College in collaboration with Indian Council of Philosophical Research (ICPR) & P.A. Sangma foundation on 10th -11th January 2019.

8. Presented a Research Paper (Oral Presentation) on “Manipur: The Neglected Tourism Glory” at a National Conference on “North East India: The Untapped Tourism Industry” organised by Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region on 15th -16th March 2018.
9. Presented a Research Paper (Oral Presentation) on “Indigenous Fermented Food Habits of Manipur and Nagaland” at a National Conference on “North East India: The Untapped Tourism Industry” organised by Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region on 15th -16th March 2018.
10. Presented a Research Paper (Poster Presentation) on “Effect of Crude Aqueous Extract of *Azadirachta indica* Juss seed kernels on the development and survival of *Aphis craccivora* Koch” at an International Conference of Entomology (ICE)-2014 held at Patiala, India. 21st -23rd Feb. 2014.

Research Projects (Minor/Major Grants/Research Collaboration)

1. Design and Synthesis of Novel Coumarin-pyridine/quinoline/quinazoline hybrids as Angiogenesis Inhibitors Targeting VEGFR-2 TKD against Tumor Microenvironment. CSIR, India. 2024-2027 (~30 Lakh) as Co-PI.
2. Design and Synthesis of Novel Coumarin-pyridine/quinoline/ quinazoline/indazole hybrids as angiogenesis inhibitors targeting VEGFR-2 TKD against tumor microenvironment – Preliminary studies. Navdhara Project, DRC, India. 2023-2024 (45 thousand) as one of the Principal Investigators. Completed.
3. Innovation Project (Project Code: 308) Title: Developing E-literacy skills in scientific communication. University of Delhi, India. 2015-2016 (5 Lakh) as Co-PI. Completed.

Awards and Distinctions

1. Awarded Certificate of Excellence for Outstanding guidance and mentorship for the Undergraduate Research Aptitude (UGRA) Competition at an ICSSR-NRC Sponsored National Seminar on April 22nd 2024 organised by Centre for Indian Knowledge Systems, Shaheed Bhagat Singh College, University of Delhi.
2. Appreciation for Poster presentation at the 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on “Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” from October 7-9, 2022, held at the Department of Zoology, University of Delhi.
3. Best Poster for Research Display at the Convocation Ceremony on 19th November 2016. Project Code: DR 308. Project Title: Developing E-Literacy Skills in Scientific Communication.
4. First prize in Oral Presentation at National Symposium on Reproductive Health in India: Concerns and Awareness held at Deshbandhu College on February 12th, 2016.
5. National overseas Scholarship for ST students. Government of India, Ministry of Tribal Affairs [Education section]. 2013.

Association with Professional Bodies

1. Member of the European Association of Cancer Research (EACR).
2. Member of the Indian Association of Cancer Research (IACR).

Other Activities

Symposiums//workshops/Seminars Organization

1. Coordinator for In-House Skill Development Programme organized by the Zoology Department, Daulat Ram College, titled, “*In Silico* Novel Therapeutics Discovery” from 24th September to 19th October 2024.

2. Member of the organizing Committee in the panel discussion on “Being Northeastern: History & Identity” held on 4th February 2019 by the North East Cell, Daulat Ram College.
3. Co-ordinator in National Symposium and Awareness Program on “Lifestyle and Reproductive Health Challenges” organized by the Department of Zoology, Biochemistry and Psychology, Daulat Ram College, on March 29th, 2017.
4. Member of organizing committee for, “Horticulture Workshop” held at Daulat Ram College, University of Delhi in collaboration with Masters’ Grace, Educational Medical and Research Society (25th May 2016 to 16th June 2016).
5. Member of organizing committee for the Workshop, “Computational Biology: A Workshop for Science Teachers” held between 9th – 11th January 2012, organized under the DBT Star College Project at D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

Conference/Symposiums/workshops/Seminars Participation

1. Participated in the 5th International Conference on Nutraceuticals and Chronic Diseases (INCD-2022) on “Pharmaceuticals and Nutraceuticals for Cancer and Other Chronic Diseases” from October 7-9, 2022, held at Department of Zoology, University of Delhi.
2. Participated in the EACR Webinar, “Thinking differently about cancer treatment regimens” with René Bernards, held through Zoom webinar, 30 September 2020.
3. Participated in the EACR-ESOI Virtual Conference on Imaging Cancer through Zoom Webinar, held on 8th July 2020.
4. Participated in the “Meet the Expert’ webinar with Daniel Peeper: Combination treatments in cancer ‘Combination treatments in cancer, an urgent clinical need (and how can basic researchers contribute?’ on 24th June 2020 organised by EACR.
5. Participated in an International Conference on “Natural Products and Human Health” organised by the Department of Zoology, Deshbandhu College, University of Delhi, at the University Conference Center, University of Delhi, on 27th February 2020.
6. Participated in Virtual Conference on “DNA Damage Responses and Cancer” organised by EACR on 20th May 2020.
7. Participated in the “Meet the Expert’ Webinar with Prof. Joan Seoane” organized by the European Association for Cancer Research (EACR) on 31st May 2020.
8. Participated in EACR Virtual Congress organised by EACR (eacr2020.org) from 18th-19th June 2020.
9. Participated in the Virtual Conference on ‘Bioinformatics for Cancer Research’ organised by EACR on 3rd June 2020.
10. Participated in an Online Conference on “Life Sciences Challenges and Opportunities: COVID-19 Pandemic” organised by the Faculty of Life Sciences. St. Aloysius College (Autonomous), Jabalpur, MP, from 1st & 2nd June 2020.
11. Participated in an International Conference on “Natural Products and Human Health” organised by Deshbandhu College, DU. University Conference Center, DU, from 27th to 29th February 2020.
12. Participated at the 39th Annual Conference of the Indian Association for Cancer Research (IACR 2020). Thiruvananthapuram, Kerala, India, from 5th to 7th February, 2020.
13. Participated in the Workshop on “Developing Self-Positive: Utilizing One’s Strengths to Strengthen Others” on 31st May 2019 organised by the Psychology Resource Center under IQAC, Daulat Ram College.
14. Participated in an International Conference on “North East India: Exploring Philosophy, Culture & Environmental Sustainability” organised by Daulat Ram College in collaboration

with the Indian Council of Philosophical Research (ICPR) & P.A. Sangma /foundation on 10th -11th January 2019.

15. Participated in the one day workshop and Hands-on Experience in “Advanced Spectroscopy” & “Dynamic Light Scattering” held by the Department of Zoology, Kirori Mal College on 9th October 2018.
16. Attended a Workshop entitled “Can we Engage the Young Age!?” on 28th-29th June 2018, organised under Star DBT Project & IQAC, Daulat Ram College, University of Delhi.
17. Participated in a National Conference on “North East India: The Untapped Tourism Industry” organised by Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region on 15th -16th March 2018.
18. Participated in a National Conference on “A Multidisciplinary Approach Towards Sustainability: A Novel Design” organised by Dhara, the Eco Club, DRC, DU, on 23rd January 2018.
19. Participated in the National Symposium and Awareness Program on “Lifestyle and Reproductive Health Challenges” organised by the Department of Zoology, Biochemistry and Psychology, Daulat Ram College, on March 29th, 2017.
20. Participated in the Symposium on “Art of Grant Writing” under the aegis of the DBT Star College Scheme held between 5th to 6th January 2017, organised by the Department of Zoology and D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.
21. Participated in the “International Conference on Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016)” held at Daulat Ram College, Delhi University (17th -18th November 2016).
22. Participated in the “International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016)” held at Daulat Ram College, Delhi University. 2016.
23. Training-cum-Interaction Programme on Climate Change, Global Warming and Green House Effect in Delhi held at Mahatma Gandhi Institute for Combating Climate Change (13th June 2016).
24. Participated in the Second National Symposium on Environment: Greener Future & Awareness held at Deshbandhu College on March 19th, 2016.
25. Participated in the “International Conference of Entomology (ICE)-2014” held at Patiala, India.
26. Participated in “Bioinformatics Training Programme for College Teachers” organised by the DBT funded Bioinformatics Center, Sri Venkateswara College, University of Delhi, from 7th - 9th February 2013.

Resource Person

1. Resource person in an in-house (DRC) Skill Development Program, organised by the Zoology Department, Daulat Ram College, titled, “*In Silico* Novel Therapeutics Discovery” from 24th September to 19th October 2024.
2. Resource person in a workshop, “Study of Developmental Stages of Chick Embryo using Window Method” at Hindu College, University of Delhi, held from 9th to 30th April 2024.
3. Invited lecture on “Importance of Biodiversity Conservation” in a One-day Orientation for Northeast students about Arramat study on Biodiversity Conservation, Food Sustainability, Health and Wellbeing of Indigenous Peoples, by Jesuit Research and Development Society, New Delhi on 21st March 2024.
4. Resource person in an in-house (DRC) Skill Development Program, “Economic Importance & Management of Beneficial Insects” held from 2nd to 6th March 2024.

5. Resource person in an in-house (DRC) Skill Development Program, “Life style disorders and Management” held from 2nd to 6th March 2024.
6. Resource person in an in-house (DRC) Skill Development Program, “Enhancing Learning Through ICT Tools” held on 23rd and 24th August 2023.
7. Resource person in an in-house (DRC) Skill Development Program, “Unveiling the Animal World in Behavioural Way” held from 23rd March to 8th April 2023.
8. Resource Person for Inspire Science Camp organised by Daulat Ram College under the sponsorship of the Department of Science and Technology, GOI, from 17th to 21st December 2018.
9. Resource Person in an in-house (DRC) 15 days Internship Training on *Drosophila* Model System organised in collaboration with Sansriti Foundation under IQAC and Sponsored by Star College Project, DBT, Government of India, from 4th to 18th July 2018.
10. Resource Person in an in-house (DRC) In-House Skill Development Certificate Course on “Digital Literacy” organised by the Biochemistry & Zoology department at Daulat Ram College, University of Delhi, from 4th to 16th July 2016.
11. Resource Person in an in-house (DRC) “Horticulture Workshop” held in collaboration with Masters’ Grace, Educational Medical and Research Society from 25th May to 16th June 2016.

Career Advancement Trainings

1. Participated in 10 days NEP 2020 Orientation & Sensitization Programme (Programme Code: MMC-138-2024-JUNE-A-01830) in an online mode under the Malaviya Mission Teacher Training Programme (MMTTP) of the Ministry of Education, Government of India, held from 5th-14th June 2024, organised by Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce (MMTTC, SRCC), University of Delhi.
2. Participated in one week Faculty Development Program on Unveiling Apiculture: Exploring the Arts and Science of Beekeeping Methods and Applications, held from 10th-16th October 2023, organised by Miranda House (Under the aegis of IQAC); Dyal Singh College, University of Delhi; ICAR-All India Coordinated Research Project on Honey Bee and Pollinators (AICRP-HB&P) and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi.
3. Participated in one week National Faculty Development Program on Sustainable Aquaculture, held from 19th-25th June 2023, organised by the Department of Zoology, University of Delhi in collaboration with Shaheed Rajguru College of Applied Sciences for Women and GAD-TLC, SGTB Khalsa College, University of Delhi.
4. Completed a six months research-based training program on “Drug Discovery Against Non-Infectious Diseases” at the Center for Bioinformatics, Computational, and Systems Biology, Pathfinder Research and Training Foundation, from August 16, 2021, to February 15, 2022.
5. Participated in two weeks of MHRD-sponsored PMMMNMTT Faculty Development Programme on “Research Methodology”, held from 1st to 17th October 2020, organised by TLC, Ramanujan College, University of Delhi.
6. Participated in a UGC sponsored Online Refresher Course in Basic Sciences, held from 10th to 23rd September 2020, organised by UGC-HRDC, Jamia Millia Islamia, New Delhi.
7. Participated in an Online FDP Program on “Environmental Impacts of COVID-19 Pandemic: Challenges and Future Research” Organised by University School of Environment Management (USEM), Guru Gobind Singh (GGS) Indraprastha University (Govt. of NCT of Delhi).
8. Participated in two weeks of MHRD-sponsored PMMMNMTT Faculty Development

Programme on “Advanced Concepts for Developing MOOCS” held from 2nd to 17th July 2020, organised by TLC, Ramanujan College, University of Delhi.

9. Participated in an Online MHRD-sponsored PMMMNMTT FDP Program on “Entrepreneurship, Incubation and Innovation” held from 23rd to 29th June 2020, organised by TLC, Ramanujan College in association with Research Development and Services Cell, Ramanujan College, DU.
10. Participated in an Online FDP Program on “Research Methodology: Tools & Techniques” held from 5th to 11th June 2020, organised by Atma Ram Sanatan Dharma College, DU, in Association with MHRD, PMMMNMTT, TLC, Ramanujan College, University of Delhi.
11. Participated in a 117th four week Orientation Programme held from 15th February to 16th March 2017, organised by the UGC-HRDC, Jamia Millia Islamia, New Delhi.
12. Participated in the Animal Behavior workshop held at the Department of Zoology (19th - 25th September, 2015), University of Delhi.

Activities/Trainings organised

1. Coordinator for In-House Skill Development Programme organised by Zoology Department, Daulat Ram College, titled, “*In Silico* Novel Therapeutics Discovery” from 24th September to 19th October 2024.
2. Convener of “Inter-College North East Cultural Extravaganza”, held at Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region (DoNER), Government of India, on 27th January 2017.
3. Convener of Inter-College Essay Writing and Collage Making Competition, held at Daulat Ram College in collaboration with the Ministry of Development of North Eastern Region (DoNER), Government of India, on 18th January 2017.
4. Course Coordinator for In-House Skill Development Certificate Course on “Digital Literacy” held at Daulat Ram College from 4th July – 16th July, 2016.

(Dr. Anna Senrung)