

DR. JYOTI JOSHI

Assistant Professor

Department of ZOOLOGY
GGDSD COLLEGE Chandigarh
India -160030

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DOB: 13th June 1986



Educational Qualifications

✓ Ph.D. in Zoology (Specialization: Parasitology)

Department of Zoology, Panjab University Chandigarh, India (2014)
Ph.D. Thesis: *A Comparative evaluation of chemotherapy, immunotherapy and immunochemotherapy for the control of visceral leishmaniasis: an experimental study*

Ph.D. Supervisor: Prof. Sukhbir Kaur

Qualified CSIR (J.R.F.) in Zoology

- ✓ **Research Associate** in CCRH, Ministry of India funded project from 2016-2020
- ✓ **M.Sc. (Hons.) (Zoology)** – Department of Zoology, Panjab University Chandigarh, India (2006-2008)
- ✓ **B.Sc. (Hons.) (Zoology)** Department of Zoology, Panjab University Chandigarh, India (2003-2006)

Teaching/Research Experience

- 11 September 2020 – Till date
Assistant Professor in Department of Zoology, GGDSD College, Chandigarh
Teaching Biochemistry and Animal Physiology, Medical lab technology, Diversity of Invertebrates, Ecology, Development biology at Graduate level
- 01 September 2014 – 31 August 2020
Assistant Professor (Adhoc) in Department of Zoology, SGGS College, Chandigarh
Teaching Cell biology, Biochemistry, Immunology, Parasitology, Biology of Invertebrates at Graduate and Post-graduate level

Areas of Interest

- Parasitology, Immunology, Cell biology, Zoology

Publications (Journal/Book Chapters)

Journal Publications:

1. Varun Gupta, Dinesh Kumar Dhull, **Jyoti Joshi**, Sukhbir Kaur, Anil Kumar (2019). Neuroprotective potential of azilsartan against cerebral ischemic injury: Possible involvement of mitochondrial mechanisms. *Neurochemistry International*, 2019, 132:104604.
2. Shivani Thakur, **Jyoti Joshi** and Sukhbir Kaur. Leishmaniasis diagnosis: an update on the use of parasitological, immunological and molecular methods. *Journal of Parasitic Diseases*, 2020, 44(2): 253-272. DOI: [10.1007/s12639-020-01212-w](https://doi.org/10.1007/s12639-020-01212-w)
3. **Jyoti Joshi**, Chetna Bandral, Raj Kumar Manchandan, Anil Khurana, Debadatta Nayak, Sukhbir Kaur (2020). The effect of Iodium 30c on experimental visceral leishmaniasis. *Homeopathy Journal*, 2020:109(4):213-223. DOI: [10.1055/s-0040-1713361](https://doi.org/10.1055/s-0040-1713361)
4. **Jyoti Joshi**, Chetna Bandral, Raj Kumar Manchanda, Anil Khurana, Debadatta Nayak, and Sukhbir Kaur (2021) Evidence for reversal of immunosuppression by homeopathic medicine to a predominant Th1-type immune response in BALB/c mice infected with *Leishmaniadonovani*. *Homeopathy*. DOI: [10.1055/s-0040-1713361](https://doi.org/10.1055/s-0040-1713361)
5. Isha Saini, **Jyoti Joshi**, Sukhbir Kaur (2022). Unwelcome prevalence of leishmaniasis with several other infectious diseases. *Int Immunopharmacol*.110:109059. doi: 10.1016/j.intimp.2022.109059. Online ISSN: 1878-1705Print ISSN: 1567-5769.
6. Kamaljit Grewal, **Jyoti Joshi**, Sonia Rathee, Sukhbir Kaur, Harminder Pal Singh & Daizy R. Batish (2022) Chemical Composition and Potential of *Eucalyptus camaldulensis* Dehnh. Essential Oil and Its Major Components as Anti-inflammatory and Anti-leishmanial Agent, *Journal of Essential Oil Bearing Plants*, 25:3, 419-429, DOI: 10.1080/0972060X.2022.2098061.
7. Sahu NK, Sharma R, Suhas KP, **Joshi Joshi**, Prakash K, Sharma R, Pratap R, Hu X, Kaur S, Jain M, Coluccini C, Coghi P, Chaudhary S (2023). Natural-Product-Inspired Microwave-Assisted Synthesis of Novel Spirooxindoles as Antileishmanial Agents: Synthesis, Stereochemical Assignment, Bioevaluation, SAR, and Molecular Docking Studies. *Molecules*. 28(12):4817. doi: 10.3390/molecules28124817.
8. Isha Saini, **Jyoti Joshi**, Sukhbir Kaur. *Leishmania* vaccine development: A comprehensive review. *Cell Immunol*. 2024 May-Jun;399-400:104826. doi: 10.1016/j.cellimm.2024.104826. Epub 2024 Apr 23. PMID: 38669897.
9. Chuskit, R., **Joshi, Jyoti.**, Gupta, I., Bandral, C., Kaur, S., Kaur, S., ... Singh, H. P. (2024). Antileishmanial activity of essential oil from a high-altitude herb, *Heracleumpinnatum*: an in vitro and in silico analysis. *Journal of Essential Oil Bearing Plants*, 27(3), 818–837.

10. Pooja Beniwal, **JyotiJoshi**, SukhbirKaur. (2024). A comprehensive review of cerebral malaria. Journal of Parasitic Diseases. <https://doi.org/10.1007/s12639-024-01758-z>.

Book Chapters:

- ❖ **Jyoti Joshi**, Rupinder Kaur, and Sukhbir Kaur (2023). Traditional Medicines for the Control of Leishmaniasis: Experimental Studies. In: Biomedical Research, Medicine, and Disease (1stEdn). Eds: RC Sobti and A Sobti. Publisher: CRC Press. ISBN: 9781003220404

Seminars/ Conferences/Symposiums (Paper Presented)

- ❖ Awarded best poster in 30th national congress of parasitology & global summit on malaria elimination, 26-28th, September 2019 at JNU, New Delhi.
- ❖ Presented a poster in International Seminar on Lab to Field: Need for Translational Research organized by GGSDS College, Chandigarh and Indian Science Congress Association Chandigarh Chapter on 9 th January, 2024.

Refresher Courses/Workshops/Training Programmes

- Attended an Online - NEP2020 Orientation & Sensitization Programme from 16.02.2024 to 29.02.2024 under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh.
- Attended IP Awareness/Training program under National Intellectual Property Awareness Mission on 26 th April, 2024 organized by Intellectual Property Office, India
- Attended a workshop on future of Innovation and Research: An impact of Information technology on Academic Spheres. On 5.8.2023 organized by GGSDS College, Chandigarh
- Attended an IP Awareness/Training program under National Intellectual Property Awareness Mission on 26 th April, 2023 organized by Intellectual Property Office, India.
- Attended One-Week National Faculty Development Program jointly organized by Goswami Ganesh DuttaSanatan Dharma College, Chandigarh and Guru Angad DevMalaviya Mission Teacher Training Centre, SGTB Khalsa College, University of Delhi from 21.10.2023 to 1.11.2023 on Subject-Specific Benchmarking of Learning Outcomes: Outcome-Based Education.
- Participated in a workshop on future of Innovation and Research: An impact of Information technology on Academic Spheres. On 5.8.2023 organized by GGSDS College, Chandigarh.

- Attended a workshop on Intellectual Property Rights sponsored by DBT, under Builder Programme organised By Resonance Club, Department of Chemistry, GGSDS College, Chandigarh on 22.03.2023.
- Attended, Innovation Ambassador Training Programme (Foundation Level) conducted online by MoE, Innovation Cell and AICTE, 2022-23
- Attended an “International Faculty Development Programme” on “Instructional Skills Workshop (ISW)” for one week (December 8-14, 2022) organized by GGSDS college, sector 32C, Chandigarh.
- Attended an IP Awareness/Training program under National Intellectual Property Awareness Mission on 22 nd November, 2022 organized by Intellectual Property Office, India.
- Completed Inter-Disciplinary Two-Week Refresher Course On “Managing Online Classes & Co- creating MOOCS 14.0” from 07 - 21 May, 2022 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PanditMadan Mohan Malaviya national mission on teachers and teaching.
- Attended a Seven Day Faculty Development Course on ‘NEP 2020’ and Ethical Paradigms in Pedagogy’ from 21-06-2022 to 27-06-2022 conducted by UGC- HRDC, Panjab University in GGSDS College, Chandigarh.
- Attended an Intellectual Property Awareness Training Programme on ‘World Intellectual Property Day’ under National Intellectual Property Awareness Mission (NIPAM) on 26 th April, 2022 organized by Ministry of Commerce and Industry, Department of promotion and Industry and Internal Trade, Office of the Controller, General of Patents, Design and Trade Marks, India.
- Attended Solar Energy System Trainers Training Programme on 30.8.2022 at GGSDS College, Chandigarh.
- Attended an IP Awareness/Training program under National Intellectual Property Awareness Mission on 10 th August, 2022 organized by Intellectual Property Office, India.
- Attended one week Faculty Development Programme on “ict-enabled teaching and learning” from 20 - 26 September, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education PanditMadan Mohan Malaviya national mission on teachers and teaching.

- Participated in an IP Awareness/Training program under National Intellectual Property Awareness Mission on 9, March, 2022 organized by Intellectual Property Office, India.
- Attended a 4-Week Induction/Orientation Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” from March 15 - April 14, 2021 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya national mission on teachers and teaching.
- Attended one Week Faculty Development Programme on “Academic writing” from 18 February, 2021 - 24 February, 2021 organised by Teaching Learning Centre, Ramanujan College, University of Delhi.
- Participated in online Training session on EBSCO ebook Academic Collection and EBSCO mobile App on 12.07.2021 organized by college library, GGSD College, Chandigarh.’
- Attended one Week Faculty Development Programme on "E- Learning and Developing MOOCs for Teaching Process in Higher Education" held from December 14 - December 20, 2020 organized by Department of Statistics & IQAC, Hindu College University of Delhi.

Invited Talks

- Resource Person for 2 days in 7 day workshop ‘KARYASHALA’ on Flow cytometry, Confocal microscopy and their applications in cell culture’ from 21 st July to 27 th July, 2022 organized by the Department of Zoology, Panjab University, Chandigarh under the aegis of DST SERB, New Delhi, Chandigarh.

PhD Thesis

Currently Supervising: 01

Administrative Experience

- Coordinator-IPR (IIC), 2021- till date.
- Coordinator- Green campus Committee (2024).
- Added Member to the Faculty of Science for the term 1.02.2023 to 31.1.2025 of the Panjab University Calendar
- Member, Executive committee for Parent Teacher Association (PTA) of GGSD College, Chandigarh for the session 2022-till date.
- Member, Aristotle Club of Zoology Department, GGSD College, Chandigarh since 2023.
- Nodal Office Responsible for checking/monitoring of

mosquitogenic situation in GGSDS College Chandigarh since 2022.

- Member, Admission Committee B.Sc. Medical (I) 2022-till date.
- Center Superintendent for the Conduct of Semester Examination held in May 2024.
- Member, Extended Green campus Committee for the session 2021-2022 and 2022-2023.
- Member, Department Subcommittee SSR for NAAC 2022-2023.
- Deputy Superintendent for the Conduct of Semester Examination held in July 2022,

Membership

- Life Membership of Indian Science Congress Association
- Life Membership of Indian Society of Parasitology (ISP)

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