

Dr. SATYAM RAVI DWIVEDI

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Professional Experience

Currently Employed:

Assistant Professor (Ad-Hoc), Zoology at Bhaskaracharya College of Applied Sciences, University of Delhi, since July 24, 2019.

Past Experience:

Guest faculty, Zoology at Sri Venkateswara College, University of Delhi, 2019.

Guest faculty, Zoology at Swami Shraddhanand College, University of Delhi, 2019.

Assistant Professor (Ad-Hoc), Zoology at Deen Dayal Upadhyaya College, University of Delhi, 2018-2019.

Guest faculty, Zoology at Kalindi College, University of Delhi, 2017-2018.

Guest faculty, Zoology Hans Raj College, University of Delhi, 2015-2016.

Guest faculty, Zoology at Hindu College, University of Delhi, 2015-2016.

Guest faculty, Zoology at Zakir Husain Delhi College 2014-2015.

Additional Responsibilities:

Member, NIRF Committee, Bhaskaracharya College of Applied Sciences, University of Delhi (2020-2022).

Member, NAAC Committee, Bhaskaracharya College of Applied Sciences, University of Delhi (2021-2022).

Convener, Debate Club, Bhaskaracharya College of Applied Sciences, University of Delhi (2021-2023).

Faculty Member, NSS Cell, Bhaskaracharya College of Applied Sciences, University of Delhi (2021-2022).

Mentor, Indian Knowledge System (IKS) internship program, AICTE and MoE (2022).

Resource person with "Nadi Ko Jaano" campaign, RFRF, Nagpur (2022).

Workshops, Seminar/Webinars and Competitions Coordinated/Organized

-Convener, Intra-College Debate Competition on the occasion of International Day for the Preservation of Ozone 2022 at Bhaskaracharya College of Applied Sciences, University of Delhi.

-Faculty Coordinator, Workshop on Cyber Security Awareness (2022), Bhaskaracharya College of Applied Sciences, University of Delhi and Delhi Police.

- Convener, An Awareness Session on Nationalism, Internationalism and Education in light of Sri Aurobindo's Vision (2022). Debate Club Bhaskaracharya College of Applied Science, University of Delhi.
- Faculty Coordinator, One day Workshop on Health and Wellness Management (2022). IQAC, Bhaskaracharya College of Applied Science, University of Delhi.
- Faculty Coordinator, One day Workshop and Thalassemia Screening Drive (2022). Department of Zoology, Bhaskaracharya College of Applied Science, University of Delhi and LNJP Hospital, Delhi.
- Organizer, Two Day National Seminar on Women Empowerment: Challenges, Need and Issues (2022). ICSSR and Bhaskaracharya College of Applied Sciences, University of Delhi.
- Faculty Coordinator, A National Webinar on Intellectual Property Awareness (2022). IQAC, Bhaskaracharya College of Applied Sciences, University of Delhi.
- Convener, A national webinar on Find your Ikigai (2022). Debate Club Bhaskaracharya College of Applied Sciences, University of Delhi.
- Resource Person, Online Workshop on Nadio ko Jano campaign (2022). RFRF and Bhaskaracharya College of Applied Sciences, University of Delhi.
- Faculty Coordinator, National workshop on Sparrow Conservation and Nest Building on the occasion of Wildlife Conservation Week (2021). Erankos, The Zoological Society of Bhaskaracharya College of Applied Sciences, University of Delhi.
- Convener, Inter-College Debate competition on the topic- Is Social Media The Fourth Pillar Of Democracy (2021), Debate Club Bhaskaracharya College of Applied Science, University of Delhi.
- Convener, Inter-College extempore competition on the topic- Relevance of Gandhian Values (2021), Debate Club Bhaskaracharya College of Applied Science, University of Delhi.
- Convener, Inter-College Debate competition on the topic- Can India Afford to be the Peacemaker in the emerging world (2021), Debate Club Bhaskaracharya College of Applied Science, University of Delhi.
- Faculty Coordinator, Webinar entitled Managing Mental Health and Promoting Mindfulness (2020), Department of Zoology, Bhaskaracharya College of Applied Sciences, University of Delhi.
- Faculty Coordinator, Webinar entitled Don't Hesitate: Vaccinate, (2020), Department of Zoology, Bhaskaracharya College of Applied Sciences, University of Delhi.
- Faculty Coordinator, National Webinar entitled The Challenge of Personal and Social Well-Being, (2020), IQAC, Bhaskaracharya College of Applied Sciences and Bhagini Nivedita College, University of Delhi.
- Faculty Coordinator, National Webinar entitled Revisiting Well-Being, (2020), IQAC, Bhaskaracharya College of Applied Sciences, University of Delhi.

-Faculty Coordinator, Srijan, Annual Cultural Festival-2020, Bhaskaracharya College of Applied Sciences, University of Delhi.

-Organizer, five day hands on workshop on "BASIC PRINCIPLES OF RECOMBINANT DNA TECHNOLOGY AND METAGENOMICS" (2018) funded under DBT Star college scheme at Department of Zoology, Deen Dayal Upadhyaya College, University of Delhi.

-Organizer, workshop on "BIOINFORMATICS" (2016) funded by Department of Biotechnology (Government Of India) at Department of Zoology, Hans Raj College, University of Delhi.

Outreach Assignments Undertaken

-Faculty Coordinator, Sanitary Pad Distribution and menstrual hygiene awareness drive on the occasion of International Womens' Day, Women Development Cell, Bhaskaracharya College of Applied Sciences, University of Delhi.

-Organizer, one day Science awareness "Bani School Innovation Camp"-III (BaSICI III) (2018) under University of Delhi-Indian National Science Academy outreach program & DBT star college project at Government Senior Secondary School, Bani, Himachal Pradesh.

-Delivered invited lecture, "What's troubling our rivers?" on Science day 2018, at Amar Nath Vidya Ashram Senior Secondary School, Mathura, Uttar Pradesh.

-Delivered invited lecture, "Human role in water pollution" 2018 organized at Sudama Prasad bal Vidya Mandir Senior Secondary School, Shahjahanpur, Uttar Pradesh.

Faculty Development Programs and Short Term Courses Attended

Short Term Course

-Implementation of National Education Policy (NEP) 2020, (2021), Center for Professional Development in Higher Education and Bhaskaracharya College of Applied Sciences, University of Delhi.

Faculty Development Programs

- Innovation in Scientific Research Methods (2020), Kirori Mal College, University of Delhi.

- Advanced Concepts for Developing MOOCS (2020), Ramanujan College, University of Delhi with Ministry of Education.

-Understanding Google Classroom (2020), Bhaskaracharya College of Applied Sciences, University of Delhi.

-Online Transaction of Courses with Moodle-LMS (2020), Bhaskaracharya College of Applied Sciences, University of Delhi.

Conferences, Workshops and Seminars/Webinars attended

-International Webinar titled, Evolution: The most important theory of Biology: A lecture by D.J. Futuyma (2022), Evolvere- The Zoological Society of Sri Venkateswara College, University of Delhi.

-National Webinar on COVID19: Immunization Awareness (2021), NSS, Bhaskaracharya College of Applied Sciences, University of Delhi

-Design of Experiment (DoE) Using Statistical Tools, (2020) Bhaskaracharya College of Applied Sciences, University of Delhi.

-Science Academies Online Lecture Workshop On Frontiers in Science and Engineering- Opportunities for Graduates (2020), Science Foundation and MHRD-IIC-Deen Dayal Upadhyaya College, University of Delhi.

-International Webinar titled, Evolution: The most important theory of Biology: A lecture by D.J. Futuyma (2022), Evolvere- The Zoological Society of Sri Venkateswara College, University of Delhi.

-National Webinar on COVID19: Immunization Awareness (2021), NSS, Bhaskaracharya College of Applied Sciences, University of Delhi

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-Science Academies Online Lecture Workshop On Frontiers in Science and Engineering- Opportunities for Graduates (2020), Science Foundation and MHRD-IIC-Deen Dayal Upadhyaya College, University of Delhi.

-Attended, one day workshop on "ADVANCED SPECTROSCOPY" & "DYNAMIC LIGHT SCATTERING" (2018) at Zoology Department, Kirori Mal College, University of Delhi.

-Oral presentation, at International Symposium on Comparative Endocrinology and Integrative Physiology (2015) organised at Technopark IT center, Kerala, under presentation entitled:

- ◆ A comparative study on murrel during different seasons maintained in water of river Yamuna, Delhi NCR.

-Poster presentation, held by International Conference on Comparative Endocrinology and Physiology (2013) organised at RTM University, Nagpur, under poster entitled:

- ◆ Monitoring oxidative stress in Murrel, *Channa punctatus* on exposure to water from several sites of river Yamuna in Delhi.

-Oral presentation, at International Symposium on Comparative Endocrinology and Integrative Physiology (2015) organised at Technopark IT center, Kerala, under presentation entitled:

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- ◆ Monitoring oxidative stress in Murrel, *Channa punctatus* on exposure to water from several sites of river Yamuna in Delhi.

Publications and Awards

-Mishra LC, Dwivedi S.R., Mishra G., and Gupta J., Folate receptor-mediated Therapeutics and Imaging. *Biotechnol. kiosk*, Vol 5, Issue 7, PP: 1-13 (2023);
DOI: <https://doi.org/10.37756/bk/23.5.7.1>

- Dwivedi, S.R., Mishra, L.C. and Mishra, G., An Analytical Approach to Progression in Malaria Therapeutics. In Ed. I.K Singh, A. Singh and A.K Verma *Natural product based drug discovery against human parasites - Opportunities and challenges* (in print)

-Mishra, G., Mishra, L.C. and Dwivedi, S.R., Ecological Approaches to Pest Management. Bioscientific Publisher. Vol.1, 2021.

-Dwivedi, S. and Sehgal, N. 2017. Scale of murrel: A non-invasive approach to monitor heavy metals in freshwater. *Journal of Biological Sciences and Medicine*. 3, 3 (Sep. 2017), 15-23.

-Won *travel grant award* for oral presentation, at International Conference on Comparative Endocrinology and Integrative Physiology organised at Technopark IT center, Kerala 2015, under presentation entitled:

- ◆ A comparative study on murrel during different seasons maintained in water of river Yamuna, Delhi NCR.

-Awarded fellowship by DST (Department of Science and Technology, Delhi) from November 2011-May2014 for the project entitled:

"Development of Indicators for Anthropogenic, Environmental and Chemical Stress on Urban Ecosystem: A Study of Aquatic and Terrestrial Ecosystems of Yamuna River Catchments from National Capital Region (Delhi)."

Research Interest

Researcher with a keen interest in broad areas of aquatic ecotoxicology and risk assessment, endocrine disruptors, oxidative stress and urban freshwater management.

Junior Research Fellow 2010-2014:

"Development of Indicators for Anthropogenic, Environmental and Chemical Stress on Urban Ecosystem: A Study of Aquatic and Terrestrial Ecosystems of Yamuna River Catchments from National Capital Region (Delhi)." At Department of Zoology, University of Delhi, Delhi

Educational Qualifications

- ◆ **Doctorate of Philosophy, Ph.D**

**Year 2011- 2017 under Supervision of Prof. Neeta Sehgal
Department of Zoology, University of Delhi.**

THESIS AND DISSERTATION TITLE: "Physiological Stress Response in the Murrel, *Channa punctatus*, in relation to Seasonal Variations in Water Quality of Yamuna River Catchment from Delhi."

◆ **Master of Philosophy(M.Phil)**

69% 2009-10

Department of Zoology, University of Delhi, Delhi, India.

THESIS AND DISSERTATION TITLE: "Effect of water on indices of oxidative stress in murrel, *Channa punctatus* (Bloch): A study conducted at river Yamuna, Delhi"

◆ **Master of Science**

60% 2007-09

Department of Zoology, University of Delhi, Delhi, India.

◆ **Bachelor of Science (Honours)**

63% 2004-07

Kirori Mal College, University of Delhi, Delhi, India.

◆ **AISSE, CBSE**

80%(Physics, Chemistry, Biology), 2004

Amar Nath Vidya Ashram, Mathura.

Additional Qualifications

- ◆ **Qualified Joint CSIR-UGC National Eligibility Test (NET) for lectureship (2011)**

Technical skills

Molecular techniques:

- PCR (Polymerase Chain Reaction)
- Real Time PCR
- Gel elution

Electrophoretic techniques:

- Agarose gel electrophoresis

Immunological Techniques:

- ELISA
- Micronuclei Assay

- Immunological profiling of Blood

Biochemical techniques:

- Protein estimation, Glycogen estimation, Lipid estimation
- Protein Purification: Precipitation
Dialysis
Column Chromatography
- Biochemical testing of various compound

Instrument Handling:

- UV/Visible Spectrophotometer, Transilluminator, Centrifuge, Laminar Air Flow, Electrophoresis system, HPLC, Confocal Microscope, Fluorescent microscope, FPLC.

Analytical Skills

All basic operating skills required for documentation with handling of Windows OS and basic Bioinformatics skills

- **Searching Tools & Databases:** NCBI
- **Similarity Searching Tools:** BLAST, FASTA
- **Sequence alignment and Phylogenetic analysis Tools:** Clustal, PHYLIP and Tree View.
- **Proficient** with Microsoft office suite.

Co-Curricular Activities

- ◆ Semi Professional Guitarist.
- ◆ Won several Awards in Debates.
- ◆ Runner up Intra-hostel Men's doubles Badminton Championship.
- ◆ Runner up Intra-hostel Men's singles Table Tennis Championship.
- ◆ Awarded Certificates for Science and Maths Olympiads.

Personal Details

Date of Birth	:	December 11, 1986
Gender	:	Male
Marital Status	:	Married
Nationality	:	Indian
Languages known	:	Hindi (Native), English (Fluent)

References

1. Dr. Neeta Sehgal, Senior Professor, Department of Zoology, University of Delhi, Delhi-110007.
Email: neetasehgal.du@gmail.com
2. Dr. Umesh Rai, Vice Chancellor , University of Jammu, Jammu-Tawi-180006
3. Dr. Rina Chakrabarty, Senior Professor and Head of the Department of Zoology, University of Delhi, Delhi-110007.
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