

CURRICULUM VITAE

Dr. Shanuja Beri

Assistant Professor
Department of Zoology
Kalindi College
University of Delhi
New Delhi 110 008 (India).



Background

Personal

Date of Birth: 26th March 1968
Sex: Female.
Marital status: Single
Mobile number: +919818405567
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Academic

Doctor of Philosophy (Neurobiochemistry)

Dr Shanuja Beri obtained Ph D from School of Life Sciences, Jawaharlal Nehru University, New Delhi in 1998.

Title of thesis: *“Response of lipid peroxidation mediated experimental epilepsies to antiperoxidant drugs”*

Master of Science (Life Sciences)

1991
First division Grade B+
Jawaharlal Nehru University

Bachelor of Science (Zoology Honours)

1989
First division 70%
Daulat Ram College, Delhi University.

Honors/Awards

First in College, Zoo. Hons Daulat Ram College University of Delhi (1987, 1988, 1989)
Silver Jubilee Award, Daulat Ram College University of Delhi (1988)
Second in University – Meritorious Award University of Delhi (1989)

Scholarship

Passed “Joint CSIR-UGC National Eligibility Test (NET) for Lectureship” in Jun. 1991 and was awarded the fellowship of UGC (University Grants Commission) for period 1991- 1996.

Research and Professional Experience

May 2014 to date : Assistant Professor, Zoology Department, Kalindi College, University of Delhi

July 2008 to Apr 2014 : Fellow in The Energy and Resources Institute (TERI).

July 2006 to Jun 2008: Research Associate in The Energy and Resources Institute (TERI).

August 2005 to June 2006: Lecturer, Dr. MPS Memorial College of Business Studies, BR Ambedkar University, Agra

October 1999 to March 2001: Lecturer School of Life Sciences, BR Ambedkar University, Agra

July 1991 to July 1996: Junior & Senior Research Fellow (Ph.D studentship) in Jawaharlal Nehru University, (JNU), New Delhi.

Subjects Taught

- Biochemistry
- Applied Biology
- Biotechnology
- Molecular Biology
- Cell Biology
- Genetics
- Animal Diversity (Non-Chordates and Chordates)
- Physiology
- Immunology
- Medical Diagnostics
- Bioinformatics and Biostatistics
- Evolution
- Ecology
- Public Health and Hygiene
- Apiculture

Professional Expertise

- Obtained Ph D from School of Life Sciences, Jawaharlal Nehru University, New Delhi in 1998 with 6 years of research experience in the field of Neurophysiology and Biochemistry.

- Hands-on experience with gas chromatography-mass spectroscopy, HPLC, gel electrophoresis , SDS-PAGE, growing and maintaining microbial and mycorrhizal cultures.
- Underwent an international training on ‘In vitro culture of Arbuscular Mycorrhizal Fungi’ held in Université Catholique de Louvain UCL, Louvain la Neuve, Belgium in May 2007.
- Worked for two months in IPK, Leibniz-Institute of Plant Genetics and Crop Plant Research, on the joint Indo -German project ‘Isolation, functional and transcriptional analysis of the symbiotic related genes in *G. intraradices* for the development of improved ROC (Root organ culture) based Mycorrhizal Biofertilizer from May 2008- July 2008. Worked under the guidance of Prof.Gotthard Kunze on cDNA library construction and gene isolation.
- Experienced on working with jatropha based biomass and its biochemical analysis especially characterization of toxicity in the biomass.
- Has expertise on biochemical characterization of algal isolates with the aim of valorization of the process of biomass utilization.
- Adept at the fatty acid methyl ester (FAME) analysis of various matrix like mycorrhiza, fly ash, soil and oil.
- Worked on characterizing essential oils from aromatic plants under mycorrhized and non-mycorrhized conditions using the Thermal Desorption System with the gas chromatography-mass spectroscopy.
- Worked on the isolation and biochemical characterization of microbes from saline soils of sugarcane and to develop formulation for the enhancement of yield of sugarcane in the field.
- Contributed to the mass production of plant growth promoting rhizobacteria (PGPRs) using fermentation to be used as formulation in the fields for potato, soyabean and maize.
- Contributed to a background paper by The Energy and Resources Institute (TERI) at Rio+20, Brazil 2012-India’s Green Economy: Road map to an inclusive and equitable growth.
- Experienced in writing proposals and project reports for various funding agencies.
- Experienced in statistical analysis using various statistical software like SPSS and Sigma Plot.
- Project management

Project Experience

Year of Funding	Title of Project

2005-2009	Characterization and evaluation of arbuscular mycorrhizal fungal (AMF) germplasm for their specific application and glomalin production.(Sponsor DBT)
2007-2010	<ol style="list-style-type: none"> 1. Microbiologically improved compost for control of abiotic stress in plant production (Sponsor DST- EU Finland) 2. Formation of quality assurance and pilot production center for biofertilizer organisms (as PI) (Sponsor DBT) 3. Isolation, functional and transcriptional analysis of the symbiotic related genes in G. intraradices for the development of improved ROC (Root organ culture) based mycorrhizal biofertilizer (DBT Germany)
2008-2010	Development of technology for in vitro mass production of selected AMFs and field validation and demonstration of finished product on wheat in India ((Sponsor DBT –Switzerland -ISCB)
2009-2013	<ol style="list-style-type: none"> 1. Co-culture and Formulation of Mycorrhiza and Agriculturally Important Microorganisms (AIMs) in Root Organ Culture and their Influence on Productivity of Cropping Systems (as PI) (Sponsor DBT) 2. Biotization of medicinal and aromatic plants with selected AMF: Implications on plant growth and active principles quality and yield. (Sponsor DBT - Spain) 3. Assessment of reclaimed ash ponds and fly ash treated agricultural fields with special emphasis on alteration of metal availability in soil, growth pattern of establishment plants, fate of toxic metals therein and subsequent changes in microbial diversity (Sponsor DST)
2010-2011	Preparation of baseline document for flyash utilization/safe management in agriculture and wasteland development(as PI) (Sponsor DST)
2013-2016	Integrating bio-treated wastewater reuse with enhanced water use efficiency to support the green economy in EU and India (Water4crops)(Sponsor DBT EU-Italy)
2015-2016	Assessment of Packaged foods for toxins. DU Innovation project
2015-2016	Establishment of an aquatic microcosm in a low lying area of the College premises for demonstration purposes of this ecosystem in addition to land reclamation. Kalindi College In House Funding.
2017-2018	The Living Green Wall- An Educational Exposition of Bottle Vertical Garden as in house project

2018-2019	Microbial Diversity in Forest Landscape Restoration Initiatives at Coal Mines under an MOU with TERI School of Advanced Studies.
2018-2019	The Living Green Wall- An Educational Exposition of Bottle Vertical Garden as in house project

Student Research – as Guide for Masters Degree

Name	Project Title	Institution
Vikas Gupta	FAME analysis of AMF spores isolated from trap cultures using GC MS	BCIL Trainee
Ranjeet Kumar Yadav	Identifying nanoparticle producing Bacteria	Allahabad Agricultural Institute Deemed University
Subash Chandra	Molecular characterization of bacterial strains	NGM College ,Pollachi
Sharib Raza	Mycorrhizal Techniques	Barkatullah University, Bhopal
Samina Hussain	Identifying nanoparticle producing Bacteria	Patna Women's College
Mahendra V Rajawat	Isolating bacteria from oil cake to check for enzyme production	Jiwaji University, Gwalior
Karabi	Isolating bacteria from oil cake - curcin	Delhi University
Piyush	Isolating bacteria from oil cake – phorbol ester	Delhi University
Neetu Barmecha	Evaluation of different strains of agrobacterium rhizogenes for induction of transformed hairy roots in different plants using seeds In Vitro	Sobhasaria Engineering College, Sikar
Sonal Jain	Decolorisation of distillery effluent	Banasthali University, Rajasthan

Dhaval Sachdeva	To assess and quantify forskolin synthesis in response to Mycorrhizal colonization	Amity University, Noida
Iti Chaturvedi	Assessment Of Pathogen Resistance And Volatiles Released By Endobacteria	Banasthali University, Rajasthan
Bhawana Jain	Biochemical Characterization Of Arbuscular Mycorrhizal Fungal Spores	Amity University, Noida
Shivani Gupta	Assessments of endo bacterial volatiles	Amity University, Noida
Neha Nagar	Assessment of endo bacterial volatiles	Banasthali University, Rajasthan
Pooja Singh	Assessment of response of aromatic plants to mycorrhiza	Banasthali University, Rajasthan
Adit Chaudhary	Isolation and characterization of microbes from saline soils of sugarcane	BITS-Goa

<p>Guide for Undergraduate Students 2015-2016</p> <p><u>IIIrd Year Zoology Honours</u></p> <ol style="list-style-type: none"> 1. Jyoti Goyal 2. Shehzadi 3. Aakriti Bansal 4. Diksha Dhiman 5. Gargi Vats <p><u>IInd Year Life Sciences</u></p> <ol style="list-style-type: none"> 1. Disha Shandiliya 2. Kopal Singh 3. Abhijita CS 4. Prachi 5. Jasleen Kaur 	<p>Delhi University-Innovation Project 2015-16 titled "Assessment of packaged foods for toxins"</p>	<p>Kalindi College University of Delhi</p>
<p>Guide for Undergraduate Students 2015-2016</p>	<p>Establishment of an aquatic microcosm in low lying area of the college. In House Project</p>	<p>Kalindi College University of Delhi</p>
<p>Guide for Undergraduate Students 2017-2018</p>	<p>Microbial Diversity in Forest Landscape Restoration Initiatives at Coal Mines under an MOU with TERI School of Advanced Studies</p>	<p>Kalindi College University of Delhi</p>
<p>Guide for Undergraduate Students 2017-2018</p>	<p>The Living Green Wall- An Educational Exposition of Bottle Vertical Garden as in house project</p>	<p>Kalindi College University of Delhi</p>
<p>Guide for Undergraduate Students 2018-2019</p>	<p>The Living Green Wall- An Educational Exposition of Bottle Vertical Garden as in house project</p>	<p>Kalindi College University of Delhi</p>

Publications

Papers

1. Response of iron induced experimental epilepsy to anti per oxidant treatment. **Shanuja Bhalla** and Rameshwar Singh .Indian Journal of Physiology and Pharmacology. 37 (5), 1993.99ISSN:0019-5499
2. Electroencephalographic mapping of iron-induced cortical seizures in an experimental model of post-traumatic epilepsy. Varsha Sharma, **Shanuja Bhalla** and Rameshwar Singh. Annals of Neurosciences. 7, 2000. 20ISSN: 09727531, 09763260
3. **Shanuja Beri**, S. Mahendran, Reena Singh, Alok Adholeya Biochemical characterization of CMCC germplasm, Mycorrhiza News 21(2) :15-18(2009) ISSN: 0970-695X
4. Functional analysis of mycorrhizal inoculation and leaf compost on different host plant. Mohan Kumar S, Ajay Bhokta, H.S.Uppal, **Shanuja Beri**, Reena Singh and Alok Adholeya.Mycorrhiza News 21 (4): 22-24 (2010).ISSN: 0970-695X
5. **Shanuja Beri** and Alok Adholeya. Biofertilizers regulation: the need of the hour Mycorrhiza News 23(1): 22-26 (2011)ISSN: 0970-695X
6. Co-composting of physic nut (*Jatropha curcas*) deoiled cake with rice straw and different animal dung. Manab Das, H.S. Uppal, Reena Singh, **Shanuja Beri**, K.S. Mohan, Vikas C. Gupta, Alok Adholeya. Bioresource Technology 102 (2011) 6541–6546 ISSN: 0960-8524
7. Eco-restoration of a commercially important and endangered Indian orchid *Vanda coerulea* Griff ExLindl. through in vitro symbiotic seed germination and seedling development. Simmi Aggarwal, C. Nirmala, **Shanuja Beri**, Sachin Rastogi and Alok Adholeya.European Journal of Environmental Sciences July 2011 ISSN 1805-0174
8. Congruence of ribosomal DNA sequencing, fatty acid methyl ester profiles and morphology for characterization of genera Rhizophagus (arbuscular mycorrhiza fungus).Kumar,S., **Beri,S.**, Adholeya A. (2013) Ann Microbial, Annals of Microbiology (2013) 63: 1405-1415 , December 01, 2013 ISSN: 1590-4261 ;1869-2044
9. Sherin Babu and **Shanuja Beri**. Municipal solid waste: A step towards meeting India's growing energy requirement. Horizon Books, Vol 1, 2019 ISBN-978-93-86369-85-7, pp 33
10. Rani, K. V., Beri, S., Singh, K., Shruti, P. S., Sharma, E., Aggarwal, A. Sharma, V., Vertical wall garden: Sustainable approach by college in urban setup. Urban Environmental Sustainability” Horizon Books, Vol 1,2019 ISBN-978-93-86369-85-7, pp 30

11. Beri S, Aggarwal S, C. Nirmala, Alok Adholeya. Conservation Strategy Of A Commercially Important And Endangered Indian Orchid *Vanda Coerulea* Griff. Ex Lindl. Biotech Express Vol 1, 2019ISSN:2454-6968.

Newsletters and Articles

- Adholeya Alok, Reena Singh and **Shanuja Beri** Production of AMF's and growing needs in plant production (2008) Proceedings of the Cost 870 Conference, Thessalonki, Greece.
- Kumar, S., **Beri, S.** Rastogi, S. Singh, R., Adholeya, A., 2009. Morphological, Molecular, Biochemical characterization of CMCC AMF Germplasm. Sixth International conference in mycorrhiza (ICOM6) Belo Horizonte, Brazil.
- Kumar, S., **Beri, S.**, Adholeya, A., 2009. Genetic variation within AMF morphotypes from mycorrhizosphere of plants from undisturbed, industrial and agricultural land: An investigation through LSU rDNA sequencing. III International conference on Environmental, Industrial and Applied Microbiology Lisbon, Portugal.
- Kumar, S., **Beri, S.**, Adholeya, A., 2010. Comparison of phenotypic, rDNA and FAME analysis of in vitro grown selected gene pool of Glomeromycota. Cost 870 Workshop/meeting. Evora, Portugal
- Johnny L., Nagrath A., **Beri S.**, Adholeya A. 2010 Development of a next generation inoculum with broad spectrum application. Cost 870 Workshop/meeting. Evora, Portugal
- Minhas. A.K., Sharma.S.,**Beri.S.**, Ramakrishnan.V., Adholeya.A. 2011 Screening, isolation and characterization of microalgae for high lipid profile and oil content to achieve enhanced biofuel extraction Proceedings of the AMI Conference, Chandigarh
- Minhas Amritpreet, **Beri Shanuja**, Kochar Mandira, Aggarwal Nisha and Adholeya Alok (2012) Lipid Profiling and Bioactives Signatures of Multivariate Habitat Based Microalgae as Potential Sources of Optimal Aviation Fuel, Proceedings of 8th Asia-Pacific Conference on Algal Biotechnology, Australia
- Anshul Puri,**Shanuja Beri**, Alok Adholeya. Differential Expression of alp Gene and Sporulation pattern of Glomus with Ri T-DNA Transformed hairy Roots. Proceedings of Conference on International Research on Food Security, Natural Resource Management and Rural Development. September 19-21, 2012 ISBN: 978-3-9801686-7-0
- Manab Das, Palak Aggarwal, **Shanuja Beri**, Verghese Paul, Reena Singh, Alok Adholeya (2013). Mycorrhiza-assisted reclamation of abandoned ash pond and its

carbon sequestration potential. Seventh International Conference On Mycorrhiza (ICOM7) New Delhi, India.Pg 112

- **Shanuja Beri**, Sima Kumari, Alok Adholeya (2013).Diversity analysis of endobacteria harboured within *in vitro* grown spores of different arbuscular mycorrhizal fungi (AMF). Seventh International Conference On Mycorrhiza (ICOM7) New Delhi, India.pg 219
- **Transport across cell membrane: Structure and function of biomembranes**, Academic contribution as e- content for postgraduate course under the National Mission on Education Information Communication Technology under MHRD Project, 2017
- **Transport across cell membrane: Diffusion, facilitated transport and active transport**, Academic contribution as e- content for postgraduate course under the National Mission on Education Information Communication Technology under MHRD Project, 2018
- K. Vandana Rani, **Shanuja Beri**, KM Shivani, Shivangi, Kalpita Singh, P.S. Shruti, Agrata Aggarwal, Vrinda Sharma and Kanika Aggarwal. The Living Green Wall-An Educational Exposition of Bottle Vertical Garden System. Proceedings in the Fourth National Symposium on Environment Green Technology for Environmental Sustainability organized by Department of Zoology, Deshbandhu College, University of Delhi on 25 September,2018
- **Shanuja Beri**, Nidhi Garg, K.Vandana Rani, Nehal Singh , Shivangee Jaiswal, Shalini Sharma, Ruchira Agarwal. Pollution and its Control: Micro Plastics, the Hidden Threat. Proceedings in the Fourth National Symposium on Environment Green Technology for Environmental Sustainability organized by Department of Zoology, Deshbandhu College, University of Delhi on 25 September, 2018
- Nidhi Garg, **Shanuja Beri**, Aditi Aggrawal, Megha Bhadauria, Sadaf Fatima, Saumya Singh. The Red Panda- A Success Story. Proceedings in the Fourth National Symposium on Environment Green Technology for Environmental Sustainability organized by Department of Zoology, Deshbandhu College, University of Delhi on 25 September,2018

Other Information

Conferences and Workshops

- Attended the International Conference on Mycorrhiza (ICOM 6) in Belo Horizonte, Brazil, August 2009

- ISCB International Symposium March 10-11, 2011 Symposium Hall, NASC Complex, New Delhi, India Indo-Swiss Collaboration in Biotechnology : A Decade of Experience in R&D and Technology Management
- Attended the International Conference on Mycorrhiza (ICOM 7) in New Delhi, India, Jan 2013
- India-U.S. Joint Clean Energy Research and Development Centre.8 July 2011, India Habitat Centre, New Delhi
- Organized a Consultative workshop on "Development of baseline document for fly ash utilization and safe management in agriculture and wasteland development in Sep 2011
- Delivered lectures in various training workshops organized by TERI and TERI University
- Workshop on "Biochemistry of Metabolic Processes" held at Kirori Mal College, University of Delhi, Delhi on 2nd February 2015.
- DST- SERB supported National conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective organized by Department Of Botany, Deen Dayal Upadhaya College, at Conference Centre, University of Delhi, New Delhi on 02-03 March, 2015.
- FICCI India Innovation Growth Programme organized by DST and Lockheed Martin at FICCI Auditorium, New Delhi on 12.01.15
- Training the Trainers: IPR Workshop by Miranda House in collaboration with IPR Chair (T) University of Delhi under the aegis of DBT Star College Project & MHRD IPR CHAIR (T) 15 January 2016
- Faculty Development Programme on Collaborative Learning, Kamala Nehru College, University of Delhi. New Delhi 23.05.2016
- Poster presentation: Assessment of packaged foods for toxic chemicals. 'Research Display', Convocation of University of Delhi.9.11.2016
- Attended the Training Workshop on 'Drosophila and Zebrafish Model Systems' organized by Departments of Biochemistry and Zoology, Daulat Ram College, University of Delhi on 19-21 December 2016.
- Participated in 'Undergraduate Science Teachers' Workshop themed at developing Scientific Temper in Students: Tools & Techniques' Organized by Department of Zoology, Ramjas College (Under DBT-Star College Project) and India Bioscience, Bengaluru held at Ramjas College, University of Delhi on 31st January 2017.
- Presented a paper in National Seminar entitled "सकृपम महिला, सकृपम समाज, एक वैज्ञानिक दृष्टिकोण : A Paradigm Shift Towards Empowerment of Women" organized by Science Departments of Kalindi College, University of Delhi at Kalindi College on February 3- 4, 2017.

- Participated in the “International Symposium on Biological Timing and Health Issues in the 21st Century, Organized by Department of Zoology, University of Delhi, Delhi Indo-US Center for Biological Timing, and Indian Society for Chronobiology on February 21 – 24, 2017.
- Organised as Co-Convenor a workshop on “Challenges and Opportunities in entrepreneurship development in North Eastern States of India under the IBSD- Kalindi College Centre for Women Entrepreneurship in North East on 9 April 2018.
- Presented e-Poster in National Symposium cum Faculty Development Programme on “Genome Editing: Tools and Applications” organized by Department of Zoology, Miranda House and D S Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi from 15-22 January, 2018.
- Workshop on “Catalyzing a Cultural Shift in Youth Entrepreneurship” organized by D S Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Thursday on 9 November 2017.
- Workshop on “Climate Change and Sustainable Development” organized by Mahatma Gandhi Institute of Climate combating Change, Bakoli, Alipur, Delhi on October 16-17, 2017.
- Regional workshop “Research As Pedagogy a Science Teacher Education Programme (RAP a STEP)” for Teacher of undergraduate Science Courses held at SGTB Khalsa College and Gargi College on May 9th and August 18th -19th 2017 respectively.
- Organised as Co Convenor a Two-day National Conference “Urban Environmental Sustainability” on February 07-08, 2019. Jointly organised by Zoology Department, Kalindi College, University of Delhi and Mahatma Gandhi Institute of Combating Climate Change (MGICCC), Govt. of NCT, Delhi
- Organised as Co Convenor a National workshop on “An exposition of perishable products from North East and their challenges “.under the IBSD- Kalindi College Centre for Women Entrepreneurship in North East on 6 March 2019
- Presented a Poster in Fourth National Symposium on Environment Green Technology for Environmental Sustainability organized by Department of Zoology, Deshbandhu College, University of Delhi on 25 September, 2018 titled “Microplastics - The Hidden Threat”.
- Presented a Poster in Fourth National Symposium on Environment Green Technology for Environmental Sustainability organized by Department of Zoology, Deshbandhu College, University of Delhi on 25 September, 2018 titled “The Red Panda- A Success Story”.
- Delivered a lecture as Resource Person in National Assessment and Accreditation Council (NAAC) sponsored National Workshop on “Skill Enhancement at Institutions of Higher Learning: Training Today for Tomorrow” organized by IQAC, Kalindi College, University of Delhi on 11 January, 2019 titled “Spectroscopy”.

- Participated in a DBT Sponsored Workshop „The Foldscope: A tool in everyone’s pocket” at Zoology Lab, Kalindi College, University of Delhi on 24th September 2019.
- Organized an International Conference as Co- Convener on “Changing Environment: Understanding the Emerging Challenges and their Management Strategies” at Conference Center, University of Delhi on 11th- 12th April 2019.
- Oral Presentation in the International Conference “Changing Environment: Understanding the Emerging Challenges and their Management Strategies” at Conference Center, University of Delhi on 11th- 12th April 2019 titled Conservation Strategy Of A Commercially Important And Endangered Indian Orchid *Vanda Coerulea* Griff. Ex Lindl
- Participated in a DBT Sponsored Workshop “The Foldscope” at Conference Center, University of Delhi on 10th April 2019.
- Delivered a lecture as Resource Person in National Conference Biogenesis VI “Synergy Between Academia and Industry organized by Department Of Biotechnology College Of Engineering And Technology IILM Academy Of Higher Learning, Greater Noida on 13th April 2019 titled “The Magic of CRISPR-CaS9 Systems”.
- Participated in the National Conference on Biotechnology for Sustainable Agriculture- BIOTIKOS 2019 organised by TERI School of Advanced Studies, New Delhi on 17th April 2019.
- Delivered a lecture as Resource Person in the FDP (TEQIP-III) “Agriculture, Food Science and Environment Dynamics: Integrating Technology, People and Sustainable Development” organised by Department Of Biotechnology College Of Engineering And Technology IILM Academy Of Higher Learning, Greater Noida 1st -5th July 2019 titled “The Magic of CRISPR-CaS9 Systems”.
- Organized a workshop as the Convenor Counselling Facilities, Kalindi College titled “Mental Health Workshop” on 5th November 2019, Seminar Room Kalindi College.
- Organizing member of Entrepreneurship Awareness Camp organized by National Institute for Entrepreneurship & Small Business Development (NIESBUD) and =- Zoological Society in association with IQAC, Kalindi College at Seminar Room, Kalindi College on 29 -31st January 2020
- Organised a national webinar as the Convenor on "Demystifying the novel coronavirus (nCOV19) and current treatment options" on 6.5.2020
- ORGANISED A WEBINAR BY IQAC, STUDENTS' UNION & LIBRARY 12th MAY, 2020 on the theme “SKILL DEVELOPMENT AND TIME MANAGEMENT DURING OUTBREAK OF COVID-19”
- Organised as a member the International Conference on “Drug development, its Challenges and the role of Nutrition in Immunboosting against Covid-19” organised by Zoology Department under aegis of IQAC, Kalindi College, University of Delhi, Delhi, India on 20th May, 2020. Organised as Coordinator National Webinar on "Biodiversity in the Anthropocene" conducted by Department of Zoology and IQAC Kalindi College on 23rd June 2020.

- Organised a national webinar 'Personality Cultivation & Development' on 21.5.2020 conducted by IQAC, Students' Union and Department of Physical Education, Kalindi College.
- Organised National Webinar on "Entrepreneurship aspects on Biodiversity Conservation and Indigenous Healing Practices of Northeast India" organized by IBSD Centre-Kalindi College, University of Delhi on 2.6.2020
- Organised the National Online Workshop on "Face Yoga in the Times of Covid-19" organised by Counselling Cell, Kalindi College on 27th June 2020.
- Participated in International webinar on "Covid-19 Pandemic: Challenges and recent advancement" organised by Jawahar Lal Nehru University, Delhi on 25th and 26th April 2020.
- Participated In Webinar On " Introduction to MANAV - The Human Atlas Initiative & How to Read Scientific Literature?" And Successfully Completed the Online Evaluation including the English Proficiency Test. Organised by Internal Quality Assurance Cell (IQAC), Kalindi College University of Delhi and IISER, Pune On 08th May 2020.
- Participated in the webinar entitled " Moodle - Open online learning platform" held on 2nd June 2020 hosted by Vignan Pharmacy College in collaboration with Indian Pharmaceutical Association.
- Participated in the webinar "ANCIENT INDIAN NAMING SYSTEMS: Walk with the Ancestors- naming plants and animals in the Prehistoric Era" organised by Department of Microbiology, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on 8.6.2020
- Participated in the International webinar "How to Build up Efficient Immunity against respiratory infections including Covid-19 issue" organised by Kalindi College in collaboration with University of Leipzig, Germany on 28th June 2020

Orientation, Refresher Courses and Faculty Development Programme

- Fourteenth Foundation Course For Scientists and Technologists held at Indian Institute of Public Administration, New Delhi and sponsored by DST from 17.11.14 to 06.02.15
- UGC-HRDC sponsored 4 weeks Orientation program (OR-88) at Centre for Professional Development in Higher Education, University of Delhi from May 31- June 28 2017 and obtained A Grade.
- Faculty Development Programme on "Genome Editing: Tools and Applications" organized by Department of Zoology, Miranda House and D S Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi from 15-22 January, 2018.
- UGC- HRDC sponsored 4 weeks 23rd Refresher Course in Life Sciences & Biotechnology from 08th October to 02nd November, 2018 at the UGC-Human Resource Development Centre, Jawaharlal Nehru University and obtained A Grade.

- Completed One Week Faculty Development Programme on "Entrepreneurship, Incubation and Innovation" from June 23 - June 29, 2020. Organised by Teaching Learning Centre, Ramanujan College Under the Scheme Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Ministry of Human Resource Development

Administrative Roles

- Admissions Committee: OBC Committee, Extra Curricular Activities (ECA Co Convenor)
- College Band (Convenor)
- August Kranti Park , Kalindi College (Convenor)
- Medical and Counselling Facilities (Convenor)
- Student Union (Co Convenor)
- Teachers' Feedback Committee (Convenor)
- Prospectus Committee (Convenor)
- Institute of Bioresources and Sustainable Development (IBSD)-Kalindi College Centre (Co-Convenor)
- Biochemical Society (Co-Convenor)
- Aquatic Ecosystem of the College : Convenor
- Women Development Centre, Kalindi College (Member)
- Verification Committee member
- Zoological Society, Kalindi College : Convenor
- IQAC ECA Member
- Member of the DU-UGC Learning Outcomes based Curriculum Framework (LOCF) committee for Zoology Honours Core Course IInd year III Sem Fundamentals of Biochemistry
- Member of the DU-UGC Learning Outcomes based Curriculum Framework (LOCF) committee for Zoology Honours Core Course IInd Year IV SEM Biochemistry of Metabolic Processes and General Elective Course –Exploring the Brain
- Member of the DU-UGC Learning Outcomes based Curriculum Framework (LOCF) committee for Zoology Honours General Elective Course –Exploring the Brain
- Reviewer member of the Syllabus for M.Sc. Plant Biotechnology Program of TERI School of Advanced Studies 2020

Other Activities

- Organized as Convenor a two day All India Battle of Bands “Samyukt 2017” in collaboration with Ministry of Tourism Delhi Government on 10th-11th Feb 2017
- A lecture cum workshop by Col. Aditya Budhiraja on ‘Emotional and Mental Health’ was organized on 6.02.2018 by the Counselling Facility.
- Organized a trip and demonstration to the Apiculture Unit, Indian Agricultural Research Institute with B.Sc.(Honours) Zoology 2nd Year students (2019,2020)
- Organized Campus Bird Count as part of the Great Backyard Bird Count Drive in association with Nature Science Initiative with B.Sc. (Honours) Zoology 1st and 2nd Year students. (2019, 2020)
- Awarded best 3000 Startup Ideas organized by SmartFifty sponsored by DST and IIM, Kolkata
- Awarded the fourth rank in All India Women’s Car Rally organized by the PHD Chambers, New Delhi 30th-31st March 2019

International Collaborations

- Switzerland : ISCB, University of Neuchatel, University of Basel, ETH
- Germany: IPK, Gatersleben, Germany
- Spain: IRTA
- Finland: University of Finland