

Curriculum Vitae



Name : **Dr. Siya Ram**
Designation: Associate Professor
Contact Room No: 143,
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Sciences,
IGNOU, Maidan Garhi,
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Educational qualifications:

Degree	University/Institute	Year	Subject	Division
Ph.D.	Environmental Microbiology Division, CSIR-IITR, Lucknow + Dr R.M.L. Avadh University, Ayodhya Title of Thesis: Studies on molecular detection of waterborne microorganism	Feb. 2009	Biochemistry	NA
M.Sc.	Banaras Hindu University (Through Combined Biotech Entrance Exam., JNU, New Delhi, India) Dissertation title: Bacterial endophytes in agriculture crops screening in rice	June 1999	Biotechnology	II nd Division
B.Sc.	Dr R.M.L. Avadh University, Ayodhya	June 1997	Ind. Microbiol. Biochemistry Env. Science	I st Division

Career profile:

Designation	Affiliation	Duration
Associate Professor	Indra Gandhi National Open University, New Delhi	August 16 th , 2021- onwards
Assistant Professor	Gautam Buddha University, Greater Noida	July 23 th , 2011 to Aug. 16 th , 2021
Assistant Professor (CS)	Gautam Buddha University, Greater Noida	June 7 th , 2010 to July 22 nd , 2011
Research /Faculty Associate	Gautam Buddha University, Greater Noida	July 4 th , 2008 to June 6 th , 2010
Senior Research Scientist	ARA HealthCare, Gurgaon.	Feb., 6 th , 2008 to July., 3 rd , 2009
Senior Research Fellow	Industrial Toxicology Research Centre, Lucknow	Dec. 16 th , 2004, to Dec.15 th , 2007
Junior Research Fellow	Industrial Toxicology Research Centre, Lucknow	Dec. 16 th , 2002, to Dec. 15 th , 2004

Area of research interest/Specialization:

1. Genetic diversity and multidrug resistance profile of pathogenic bacteria from water resources.
2. Development and validation of real-time probes and nanoprobe for pathogenic bacteria
3. Metagenomic investigation of river water.
4. Understand the molecular mechanisms of persistence in *Pseudomonas aerogenosa*.
5. Isolation and characterization of growth-promoting bacteria

Role and responsibility at IGNOU:

S. No.	Role and Responsibility	Duration
1.	School Board Member, SOS	Dec. 15 th 2022 to till date
2.	Discipline Group Coordinator	Oct. 5 th 2021 to till date
3.	Member- IT committee	Aug. 2 nd 2022 to till date
4.	Member- Cleanliness Committee	Aug. 2 nd 2022 to till date
5.	Diploma in Aquaculture (Program coordinator)	Oct. 4 th 2021 to till date
6.	LSE-01, Cell Biology (Course coordinator)	Sept. 15 th 2021 to till date
7.	LSE-02, Ecology (Course coordinator)	Sept. 15 th 2021 to till date
8.	LSE-03, Genetics (Course coordinator)	Sept. 15 th 2021 to till date
9.	LSE-04L, Lab. Course-1 (Course coordinator)	Sept. 15 th 2021 to till date
10.	LSE-06 (Part I), Developmental Biology (Course coordinator)	Nov. 4 th 2022 to till date
11.	LSE-07, Taxonomy and Evolution (Course coordinator)	Sept. 15 th 2021 to till date
12.	BAQ-002, Fresh Water Aquaculture (Course coordinator)	Sept. 15 th 2021 to till date
13.	BAQL-001, Fresh Water Aquaculture, Lab. (Course coordinator)	Sept. 15 th 2021 to till date
14.	BBYCT-131, Biodiversity (Course coordinator)	Nov. 4 th 2022 to till date
15.	BBYCT-132, Biodiversity Lab. (Course coordinator)	Nov. 4 th 2022 to till date
16.	BBYCT-133 Plant Ecology and Taxonomy (Course coordinator)	Nov. 4 th 2022 to till date
17.	BBYCT-134 Plant Ecology and Taxonomy, Lab. (Course coordinator)	Nov. 4 th 2022 to till date
18.	BBYCT-141 Cell and Molecular Biology (Course coordinator)	Nov. 4 th 2022 to till date
19.	BBYCT-142 Cell and Molecular Biology, Lab. (Course coordinator)	Nov. 4 th 2022 to till date

Interactive radio counselling (IRC):

Total: 05 sessions

Research guidance:

M. Tech. students supervise:

1. A total of 26 M. Tech. students supervised on various topics.

Current PhD students:

1. K. Anita at GBU
2. Rashmi Kumari at IGNOU

PhD awarded/Submitted

S. No.	Name of Students and Enroll. No.	Thesis title	Year of registration	Year of completion
1.	Girraj Singh BT/PhD/2011/003	Study on Molecular Epidemiology of Rabies Virus Isolates in India	2013	2019
2.	Ravi Chaudhary BT/PhD/2011/008	Study of persister cell formation in pathogenic bacteria	2013	2019
3.	Smitha Soman BT/PhD/2019/018	Characterization of tRNA isopentenyltransferase from <i>Mycobacterium tuberculosis</i>	2020	Submitted

Number of publications (List for each item could be given under separate files for linking):

Total citations at Google Scholar: 751

h-index: 15

i10 index: 18

A. Papers in refereed/ Peer-reviewed Journals

1. Soman, S.; Chattopadhyay, S.; **Ram, S.**; Nandicoori, V. K.; Arimbasseri, G.A. Codon optimality has minimal effect on determining translation efficiency in *Mycobacterium tuberculosis*, *Scientific Reports*, 2023 (<https://doi.org/10.1038/s41598-022-27164-0>).
2. Soman, S.; **Ram, S.** Mia MiaA (Rv2727c) mediated tRNA isopentenylation of *Mycobacterium tuberculosis* H37Rv, *Mol. Biol. Res. Com.* 2022;11(2): 97-104.
3. Garg, G.; Yadav, S.K.; Wahi, N.; **Ram, S.** Potential emerges of therapeutic protein production using glycol engineering technology of plants, *Trends Carbohydr. Res.* 2022; 14(1): 35-44.
4. Singh, G.; Chhabra, M.; Singh, P.; Gupta, N. K.; Singhal, M.; Dhariwal, A.C.; **Ram, S.** Molecular study of glycoprotein (G) gene region of rabies virus from spotted deer, Delhi, India. *J. Commun. Dis.* 2018; 50 (3), 28-35.
5. Chaudhary, R. K.; Singh, G.; **Ram S.** Structural and functional *In-silico* analysis of toxin antitoxin proteins in persister cells of *Pseudomonas aeruginosa*. *Plant Archive*, 2018 18 (2), 1643-1651.
6. Chaudhary, R. K.; Singh, G.; **Ram S.** Homology Modeling and *in-silico* structural annotation of the toxin-antitoxin systems in *Pseudomonas aeruginosa*. *Indian Res. J. Genet. & Biotech*, 2018, 10 (1): 180-188.
7. Singh, G.; Jaiswal, R.; Chhabra, M.; Sood, Y.; Gupta, N.; Singhal, M.; Tiwari, S.; Dhariwal, A.C.; Sharma, R., **Ram, S.** Evaluation of direct rapid immunohistochemistry test (DRIT) for postmortem diagnosis of rabies, *J. Commun. Dis.* 2017; 49 (3), 9-13. (DOI: 10.24321/0019.5138.201715).
8. Lata, P.; **Ram, S.**, Shanker, R. Multiplex PCR based genotypic characterization on of pathogenic vancomycin-resistant *Enterococcus faecalis* recovered from an Indian river

- along a city landscape. *SpringerPlus*, 2016, 5 (1), 1199. <https://doi.org/10.1186/s40064-016-2870-5>
9. Chaudhary, R.K., Narain, R., Singh, G., Kumar, A., **Ram, S.** The role of toxin-antitoxin systems in the survival of multidrug tolerant pathogens and designing of new approaches to treat them. *Int. J. Infect. Dis.*, 2016, 45, 274-275
 10. Naraian, R.; Singh, M. P; **Ram, S.** Supplementation of the basal substrate to boost up substrate strength and oyster mushroom yield: An overview of substrates and supplements, *Int. J. Curr. Microbiol. App.Sci.*, 2016, 5(5), 543-553.
 11. Urvashi, **Ram, S**, Pant P, Nagar, S. Application of cloud computing in microbiological studies (*Vibrio* spp.) of Yamuna water using PCR techniques. *Int. J. Sci. Tech. & Management*; 2015, 6 (1), 1-13.
 12. Naraian, R.; **Ram, S.**; Kaistha, S.D.; Srivastava, J. Occurrence of plasmid linked multiple drug resistance in bacterial isolates of tannery effluent. *Cell. Mol. Biol.* 2012, 58, 134-141.
 13. **Ram. S.**; Vajpayee, P.; Dwivedi, PD; Shanker, R. Culture-free detection and enumeration of STEC in water. *Ecotoxicol. Environ. Saf.* 2011, 74(4), 551-557, (doi:10.1016/j.ecoenv.2011.01.019).
 14. Naraian, R., **Ram, S.**, Srivastava, J., Kumar, J., Singh, K.P., Garg, S. K. Influence of metal ions on growth and enzyme profile of white-rot fungus *Pleurotus florida* ITCC 3308, *Res. Environ. Life Sci.* **2010**, 3, 59 - 64.
 15. Singh G.; Vajpayee P.; **Ram S.**, Shanker R. Environmental reservoirs for enterotoxigenic *Escherichia coli* in South Asian Gangetic riverine system. *Environ. Environ. Sci. Technol.* **2010**, 44, 6475 - 6480.
 16. Jyoti, A.; **Ram, S.**; Vajpayee, P.; Singh, G.; Dwivedi, P.; Jain, S.K.; Shanker, R.. Contamination of surface and potable water in South Asia by salmonellae: culture-independent quantification with molecular beacon real-time PCR. *Sci. Total. Environ.* **2010**, 408, 1256 - 1263.
 17. **Ram, S.**; Vajpayee, P.; Shanker, R. Enterotoxigenic *Escherichia coli* in sewage impacted waters and aquatic weeds: quantitative PCR for culture-independent enumeration. *J. Appl. Microbiol.* **2010**, 108, 1007 - 1014.
 18. Lata, P.; **Ram, S.**; Agarwal, M.; Shanker, R. Enterococci in river Ganga surface waters: Propensity of species distribution, dissemination of antimicrobial-resistance and virulence markers among species along landscape. *BMC Microbiol.* **2009**, 9:140 (DOI: 10.1186/1471- 2180-9-140).
 19. Lata, P.; **Ram, S.**; Agarwal, M.; Shanker, R. Real-time PCR for rapid detection of *vanA* gene in surface waters and aquatic macrophyte by molecular beacon probe. *Environ. Sci. Technol.* **2009**, 43, 3343 - 3348.
 20. **Ram, S.**; Vajpayee, P.; Singh, R. L.; Shanker, R. Surface water of a perennial river exhibits multi-antimicrobial resistant shiga-toxin and enterotoxin producing *Escherichia coli*. *Ecotoxicol. Environ. Saf.* **2008**, 72, 490 - 495.
 21. Lata, P., **Ram, S.**, Agrawal, M., Shanker, R. Culture-independent specific detection of vancomycin-resistant enterococci in surface waters by molecular beacon probe. *Indian J. Pharmacol.*, 2008, 40, 234-234.
 22. **Ram, S.**; Vajpayee, P.; Tripathi, U.; Singh, R.L.; Seth, P. K., Shanker, R. Determination of antimicrobials resistance and virulence gene signatures in surface water isolates of

Escherichia coli. *J. Appl. Microbiol.* **2008**, *105*, 1899 - 1908.

23. **Ram, S.**; Singh, R. L.; Shanker, R. *In-silico* comparison of real-time PCR probes to detect pathogens. *In- Silico Biol.* **2008**, *8*, 251 - 259.
24. Shanker, R., **Ram, S.**, Lata, P., Vajpayee, P., Jyoti, A., Patel, C.B. Dwivedi, P.D. Pathogen detection: PCR probes to Nano-Probes! *Nanotoxicology*, 2008, *2* :1 S-42.
25. **Ram, S.**; Vajpayee, P.; Shanker, R. Rapid culture-independent quantitative detection of enterotoxigenic *Escherichia coli* in surface waters by real-time PCR with the molecular beacon. *Environ. Sci. Technol.* **2008**, *42*, 4577 - 4582.
26. **Ram, S.**; Vajpayee, P.; Shanker, R. Contamination of potable water distribution systems by multi-antimicrobial resistant enterohemorrhagic *Escherichia coli*. *Environ. Health Perspect.* **2008**, *116*, 448 - 452.
27. **Ram, S.**; Vajpayee, P.; Singh, R. L.; Shanker, R. Virulence determinants of *shiga-toxin* and enterotoxin-producing *E. coli* exhibit distinct patterns in three perennial Indian rivers. *Adv. Life. Sci.* **2007**, *1*, 1 - 8.
28. **Ram, S.**; Vajpayee, P.; Shanker, R. Prevalence of multi antimicrobial agent resistant, Shiga toxin and enterotoxin producing *Escherichia coli* in surface waters of river Ganga. *Environ. Sci. Technol.* **2007**, *41*, 7383 - 7388.
29. **Ram, S.**; Shanker, R. Computing TaqMan probe for multiplex PCR detection of *E. coli* O157 serotype in water. *In-Silico Biol.* **2005**, *5*, 499 - 504.
30. **Ram, S.**; Shanker, R. Plasmid and drug resistance profile of sorbitol non-fermenting cefixime- tellurite resistance *Escherichia coli* isolates from the river Gomti. *Bull. Environ. Contam. Toxicol.* **2005**, *75*, 623 – 628.

Full-length conference paper:

1. Kumar, N.; Bansala, R.; Kumar, A.; Chaudhary, R. K.; **Ram, S.** Rapid detection of Shiga toxin-producing *Escherichia coli* (STEC) using DNA conjugated Gold Nano-Particles. NANOFIM, IEEE Conference 2017
2. Kumar, A.; Kaushik, A, C.; Singh P. P.; Chaudhary, R. K.; Yamaguchi, S.; Lay-Ekuakille A.; G.; Urooj, S.; Tripathi, V.; **Ram. S.** Predictive novel anti-EGFR gold nanoparticle decorated potential effective nanomedicine for enhanced tumor targeting and antitumor efficiency. NANOFIM, IEEE Conference 2017
3. Kumar, A.; Chaudhary, R.K.; Singh, G.; Urooj, S.; Tripathi, V.; **Ram. S.** Applications of nanomaterials for the diagnosis and prognosis of Alzheimer's disease, NANOFIM, IEEE Conference 2017

Others

1. Naraian, R., Kumari, S., **Ram, S.**, Kumar, A. *Azospirillum brasilense* gene for 16S ribosomal RNA, partial sequence, strain, RN20150121; Nucleotide sequence submitted to GenBank (LC02657); January 22nd, 2015. (<https://www.ncbi.nlm.nih.gov/nucleotide/LC02657>).
2. Naraian, R., Kumari, S., **Ram, S.** *Bacillus vallismortis* gene for 16S ribosomal RNA, partial sequence, isolate CG141107; Nucleotide sequence submitted to GenBank (LC010220); November 7th, 2014. (<https://www.ncbi.nlm.nih.gov/nucleotide/LC010220>).
3. **Ram, S.** Real-Time qPCR: A potential tool for nucleic acid quantitation, GBU. Research Bulletin, **2009** volume 1, issues III & IV. ([http://www.gbu.ac.in/UniversityDoc/Research_Bulletin\[2\].pdf](http://www.gbu.ac.in/UniversityDoc/Research_Bulletin[2].pdf)).

B. Books/Monographs (Authored/Edited)/Book Chapter/Lecture Notes:

1. Kumar D., Morya, A., Srivastav, A. L, **Ram, S.** Assessment of microbial quality of water supply in mega and metro cities of India and their management. An Overview. "*Urban Water crisis and management strategies for sustainable development (Elsevier)*" 2022 (eds. Arun Lal et al.) (ISBN: 9780323918381).
2. Kumar D., Srivastav, A. L, **Ram, S.** Urban water quality and wastewater discharges In mega and metro cities of India - challenges, impacts, and management: An overview "*Urban water crisis and management strategies for sustainable development (Elsevier)*" 2022 (eds. Arun Lal et al.) (ISBN: 9780323918381).
3. Chaudhary, R. K.; Gupta, V.; Sharma, J., Neyaz, K.M., Gupta, R., **Ram S.** Study the effect of plant-derived antimicrobials (PDAs) on multidrug tolerant pathogens, A source book of herbal pharmaco-therapy 2022 (ISBN-978-93-5626-998-9).
4. **Ram, S.** and Sagar, S. K. (2022) Unit 7: Siphonaptera as disease vectors, B.Sc. (Gen) programme-CBCS, BZYCT-143, Block 2, pp. 142-157 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/85347/1/Unit-7.pdf>)
5. **Ram, S.** and Sagar, S. K. (2022) Unit 8: Siphunculata (Lice) as disease vectors, B.Sc. (Gen) programme-CBCS, BZYCT-143, Block 2, pp. 158-170 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/85348/1/Unit-8.pdf>)
6. **Ram, S.**; Rajwanshi, R.; Dheer, B. (2022) Unit 13: Molecular Techniques, B.Sc. (Gen) programme-CBCS, BZYCT 143,, Block 4, pp. 49-59 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/86111/1/Unit-13.pdf>)
7. **Ram, S.**; Rajwanshi, R.; Dheer, B. (2022) Unit 14: Recombinant DNA Technology, B.Sc. (Gen) programme-CBCS, BZYCT 143, Block 4, pp. 107-146 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/86112/1/Unit-14.pdf>)
8. **Ram, S.**; Rajwanshi, R.; Dheer, B. (2022) Unit 15: Application of Plant Biotechnology, B.Sc. (Gen) programme-CBCS, BZYCT 143, Block 4, pp. 147-173 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/86113/1/Unit-15.pdf>)
9. **Ram, S.** and Jain, A. (2021) Unit 9: Working of the immune system I, B.Sc. (Gen) programme-CBCS, BZYCT-141, Block 3, pp. 07-21 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/80011/3/Unit-9.pdf>)
10. **Ram, S.** and Jain, A. (2021) Unit 12: Working of the immune system IV, B.Sc. (Gen) programme-CBCS, BZYCT-141, Block 3, pp. 54-72 (Bilingual) (<https://egyankosh.ac.in/bitstream/123456789/80019/3/Unit-12.pdf>)
11. Naraian, R., Gautam, R. L., **Ram, S.**, Gupta, M. K., Rhizoremediation of polyaromatic hydrocarbons (PAHs): A task force of plants and microbes, Springer Nature Singapore Pvt. Ltd., 2019, Phyto and Rhizo Remediation, Microorganisms for Sustainability, (eds. N. K. Arora, N. Kumar), (ISBN 978-981-329-664-0).
12. Shanker, S., Singh, S., Shika, Mishra, A., **Ram, S.** Strategic role of fungal laccases in biodegradation of lignin, Springer Nature, Switzerland AG-2019, Mycodegradation of Lignocelluloses, Fungal Biology, (eds. Dr Ram Naraian), (ISBN 978-3-030-23834-6).
13. Naraian, R., Kumari S., **Ram, S.** *Pleurotus* as an exclusive eco-friendly modular Bio tool, CAB International, 2016. The handbook of microbial bio-resources (eds V.K. Gupta) page 140-158 (<http://www.cabi.org/cabebooks/ebook/20163199952>).
14. **Ram, S.**, and Naraian, R. Real-time quantitative polymerase chain reaction: A potential tool for pathogen detection. Recent advances in microbiology. 2013, vol. 2, (https://www.novapublishers.com/catalog/product_info.php?products_id=44458;

Editors: S.P. Tiwari, Rajesh Sharma and Rajeeva Gaur (Department of Microbiology, VBS. Purvanchal University, Jaunpur, India, and others.

C. Papers in conference proceedings:

International

1. Singh, G., Jaiswal, R., Chhabra, M., Gupta, N.K., Singhai, M., Tiwari, S., Dhariwal, A. C., **Ram, S.** Phylogenetic analysis of glycoprotein (G) gene of rabies virus isolated from spotted deer, Delhi, 2016 [abstract]. In: The 18th International Congress on Infectious Diseases (ICID)/XVIII Congreso SADI; March 1st to 4th, 2018; Sheraton Buenos Aires Hotel & Convention Center, Buenos Aires; Abstract No: UMP 810.

International within country

1. Anita, K. and **Ram S.** Water quality and metagenomic study of the polluted river Hindon in India, [abstract]. In: 62nd. 62nd Annual International Conference of Association of Microbiologists of India (AMI) Microbes and Society: Current Trends and Future Prospects, Sept. 22nd -23rd, 2022, Department of Microbiology JSS Academy of Higher Education & Research, Mysuru. Abstract No: OPPVI-01
2. Soman, S., Arimbasseri, A.G., **Ram, S.** Identification of isopentenyl transferase (Mia-A) target tRNA in *Mycobacterium tuberculosis*, [Abstract]. In: International Conference on Challenges and opportunity in biotechnology; November 11th to 12th 2021; Amity University, Jharkhand. Abstract No: ICCOB -OA-O18,
3. **Ram, S.**, Chaudhary, R.K. Effect of synthetic compounds and plant-derived antimicrobial (PDAs) on multidrug tolerant *Pseudomonas aeruginosa*, [Abstract]. In: The International Conference on recent advanced in Science and Engineering; April 23rd to 24th, 2022, SAGE University, Bhopal, MP.
4. Kumar, N., Shariq, M., **Ram, S.**, Mukhopadhyay, G. Analysis of *Helicobacter pylori* type IV secretion system and its role in human health and diseases [abstract]. In: International Conference on Molecular Basis of Disease and Therapeutics; March 8th to 10th, 2019; Central University Rajasthan (ICMBDT-2019); Abstract No: PP 090.
5. Tiwari, S. K., Kumar, N., Naraiian, R., **Ram, S.** Green synthesis of silver nanoparticles using flower extract of *Calliandra haematocephala* and its antimicrobial properties [abstract]. In: 6th World Congress on Nanomedical Sciences, Chemistry-Biology Interface: Synergistic New Frontiers; January 7th to 09th, 2019; Vigyan Bhawan, New Delhi, India: (CBISNF-2019), Abstract No: PP 91.
6. Kumar, S., **Ram, S.**, Naraiian, R. Response of the substrate on cultivation phases and yield of oyster mushroom *Pleurotus florida*, [abstract]. In: 58th. Annual Conference of Association of Microbiologists of India, 2017 and International Symposium on Microbes for Sustainable Development Scope Applications (MSDSA, 2017), Lucknow, Nov. 16th to 19th, 2017; Babasaheb Bhimrao Ambedkar University, Lucknow; Abstract No: PP 379
7. Kumari, S., **Ram, S.** Naraiian R. Response of the bacterial population in cultivation beds on the yields of oyster mushroom *Pleurotus florida*, [abstract]. In: 58th. Annual Conference of Association of Microbiologists of India, 2017 and International Symposium on Microbes for. Sustainable Development Scope Applications (MSDSA 2017), Lucknow, Nov. 16th to 19th, 2017; Babasaheb Bhimrao Ambedkar University, Lucknow; Abstract No: 406
8. Chaudhary, R. K., Kumar, N., Naraiian, R., **Ram, S.** Culture-free detection of *shiga-toxin* producing *E. coli* by a microfluidic device coupled with qPCR technique [abstract]. In: 58th. Annual Conference of Association of Microbiologists of India, 2017 and

- International Symposium on Microbes for Sustainable Development Scope Applications (MSDSA 2017), Lucknow, Nov. 16th to 19th, 2017; Babasaheb Bhimrao Ambedkar University, Lucknow; Abstract No: 407
9. Naraian, R., Kumar, P., **Ram, S.** Removal of carpet industry blue BS reactive dye by enzymatic treatments, [abstract]. In: 57th Annual Conference of AMI. International Symposium on "Microbes and Biosphere: What's Next"; Nov. 24th to 27th, 2016; Guwahati University, Assam, India; Abstract No: OR48.
 10. Chaudhary, R.K., Naraian, R., **Ram, S.** Culture free detection of *Salmonella* spp. on various food matrices using molecular beacon-based real-time PCR assay, [abstract]. In: 57th Annual Conference of AMI. International Symposium on "Microbes and Biosphere: What's Next"; Nov. 24th to 27th, 2016; Guwahati University, Assam, India; Abstract No: MMB49.
 11. Chaudhary, R.K., Narain, R., Kumar, A., **Ram, S.** Culture-free detection of *Escherichia coli* O157 by using milk protein-coated activated charcoal (MP-CAC) based pathogen concentrator and qPCR. [abstract]. In: 56th Annual Conference of AMI. International Symposium on Emerging Discoveries in Microbiology; Dec.7th to 10th, 2015; Jawaharlal Nehru University, Delhi, India; Abstract No: MMB18.
 12. Chaudhary, R.K., Narain, R., Kumar, A., **Ram, S.** Functional Study of toxin-antitoxin pairs parDE, relBE and higBE systems in *Pseudomonas aeruginosa*, [abstract]. In: 56th Annual Conference of AMI. International Symposium on Emerging Discoveries in Microbiology; Dec.7th to 10th, 2015; Jawaharlal Nehru University, Delhi, India; Abstract No: MMB89.
 13. Chaudhary, R. K., Narain, R., **Ram, S.** Characterization of persister cells in *Pseudomonas aeruginosa*, [abstract]. In: 55th Annual Conference of AMI. Empowering Mankind with Microbial Technologies (AMI-EMMT); Nov. 12th to 14th, 2014, Tamil Nadu Agriculture University, Coimbatore, Tamil Nadu, India Abstract No: MM96
 14. Kumari, S., Naraian, R., **Ram, S.** Characterization of mushroom growth-promoting bacteria isolated from rhizospheric soil of a mint plant, [abstract]. In: 55th Annual Conference of AMI. Empowering Mankind with Microbial Technologies (AMI-EMMT); Nov. 12th to 14th, 2014, Tamil Nadu Agriculture University, Coimbatore, Tamil Nadu, India Abstract No: AM98.
 15. Naraian, R., Kumari, S., **Ram, S.** Cattail weed (*Typha latifolia*) waste for the production of ligninolytic enzymes by white-rot fungus *Pleurotus florida* PF05, [abstract]. In: 55th Annual Conference of AMI. Empowering Mankind with Microbial Technologies (AMI-EMMT); Nov. 12th to 14th, 2014, Tamil Nadu Agriculture University, Coimbatore, Tamil Nadu, India Abstract No: IM107.
 16. Pandey, R.K., Kumari, S., **Ram, S.**, Naraian, R., Decolourization of synthetic carpet industry dye by white-rot fungus *Pleurotus florida* [abstract]. In: International conference on Effect on emissions and effluents on the environment (EEEE-2014); June 30 to July 01, 2014, A. U. College in Engineering, Andhra University, Visakhapatnam, India; Abstract No: EPPC14.
 17. Chaudhary, R. K., Narain, R., **Ram, S.** Toxin-antitoxin system leads to multidrug tolerance in enterotoxigenic *Escherichia coli* (ETEC) [abstract]. In: International conference on Effect on emissions and effluents on the environment (EEEE-2014); June 30 to July 01, 2014, A. U. College in Engineering, Andhra University, Visakhapatnam, India; Abstract No: EMMM16.
 18. Chaudhary, R.K., Narain, R., **Ram, S.** Intelligent strategies for the detection of *Salmonella* in fruit juices, [abstract]. In: International conference on the Effect of emissions and

effluents on the environment (EEEE-2014); June 30 to July 01, 2014, A. U. College in Engineering, Andhra University, Visakhapatnam, India; Abstract No: EMMM27.

19. Naraian, R., Patel, Y., **Ram, S.** Response of nitrogen-rich oil seed cakes on growth kinetics and laccase production in oyster mushroom *Pleurotus florida* PF05, [abstract]. In: 54th Annual Conference of AMI of India. International Symposium on 'Frontier Discoveries and innovations in Microbiology and its Interdisciplinary relevance'; Nov. 17th to 20th, 2013; Maharshi Dayanand University, Rohtak, Haryana, India; Abstract No: IMET149.
20. Chaudhary, R. K., Chand, P., **Ram, S.** relBE, parDE and higBA toxin-antitoxin systems participate in multidrug tolerance in *Pseudomonas aeruginosa*, [abstract]. In: 54th Annual Conference of AMI of India. International Symposium on 'Frontier Discoveries and innovations in Microbiology and its Interdisciplinary relevance'; Nov. 17th to 20th, 2013; Maharshi Dayanand University, Rohtak, Haryana, India; Abstract No: MMVV187.
21. Jyoti, A, Vajpayee, P, **Ram, S,** Shanker R. Environmental reservoirs of enterotoxigenic *Escherichia coli*: Molecular beacon-based Detection and quantification in river sediments, [abstract]. In: 7th Convention of The Biotech Research Society, India (BRSI); International Conference on Genomic Sciences: Recent Trends; Nov. 12th to 14th, 2010; Madurai Kamaraj University, Madurai, India; Abstract No: PP103
22. Jyoti, A., Vajpayee, P., Singh, G., **Ram, S.,** Dwivedi, P.D., Shanker, R. Detection of nucleic acid signatures of Diarrheagenic *Escherichia coli*: Real-Time PCR Probes to Gold Nanoparticle Probes, [abstract]. In: International Conference on Nanomaterials and Nanotechnology; Dec.13th to 16th, 2010; K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India; Abstract No: PP576
23. **Ram, S.,** Shanker, R. Probing goes in *In-Silico*: Detection of diarrheagenic *Escherichia coli* serotypes in water by TaqMan probes, [abstract]. In: International Conference on Toxicology, Environmental and Occupational Health (ICTEOH-2005); Nov. 14th to 17th, 2005; ITRC, Lucknow India: Abstract No: A1-OP-06.
24. Lata, P., **Ram, S.,** Vajpayee, P., Shanker, R. Probing enterococci in surface waters: Plate to PCR, [abstract]. In: International Conference on Toxicology, Environmental and Occupational Health (ICTEOH-2005); 2005 Nov. 14th to 17th, 2005; ITRC, Lucknow India; Abstract No: S8-PP-07.
25. **Ram, S.,** Tripathi, U., Seth, P.K., Shanker, R. Phenotypic and genotypic characterisation of *E. coli* strains in water resources, [abstract]. In: International Symposium on Molecular Toxicology and Environmental Health (ISMTEH-2003); Nov. 5th to 8th, 2003; ITRC, Lucknow, India; Abstract No: A2-OP-13.

National

1. Mishra, A., Tripathi, V., Ashraf, M.T., **Ram, S.** Association of TRPC1 gene polymorphism in patients with Diabetic Nephropathy [abstract]. In: 27th Annual Conference of the Indian Association of Clinical Medicine (IACMCON2019), Gautam Buddha University, Gr. Noida, November 15th to 17th, 2019; Abstract No: 52.
2. Chatterjee, S., **Ram, S.,** Kumar, N. Chronic *Helicobacter pylori* infection is a risk factor in the development of diabetes mellitus (Type 2): A myth or Fact? [abstract]. In: 27th Annual Conference of the Indian Association of Clinical Medicine (IACMCON2019), Gautam Buddha University, Gr. Noida, November 15th to 17th, 2019; Abstract No: 53.
3. Soman, S., Anita, K., **Ram, S.** Diabetes: Inflammation control by common kitchen spices and Herbs [abstract]. In: 27th Annual Conference of the Indian Association of Clinical

- Medicine, Gautam Buddha University (IACMCON-2019), Gr. Noida, November 15th to 17th, 2019; Abstract No: 57.
4. Kumar, N. Ashraf, M. T., Srivastava, S., Gupta, A., **Ram, S.** Gut microbiota: Its critical role in diabetes mellitus, [abstract]. In: 17th annual conference of Uttar Pradesh Diabetes Association Conference; Sept. 29th to 30th, 2018; Stardom Convention Centre, Sector 16, Noida, India (UPDAICON-2018); Abstract No: ABS124.
 5. **Ram, S.**, Srivastava, S., Kumar, N. *Helicobacter pylori* infection is a risk factor in type 2 diabetes mellitus: A myth or fact, [abstract]. In: 17th annual conference, Uttar Pradesh Diabetes Association Conference; Sept. 29th to 30th, 2018; Stardom Convention Centre, Sector 16, Noida, India (UPDAICON-2018); Abstract No: ABS124.
 6. **Ram, S.**, Chaudhary, R. K., Priya, S., Imran, Kumar, N. Vitamin C acts as a killer or a modulator molecule for the long-term survival of *Mycobacterium tuberculosis* in host cells: A prospective study, [abstract]. In: National Conference: Recent Trends in Cell and Molecular Biology Research; Oct. 27th to 28th, 2017; Shiv Nadar University, Gr. Noida, India; Abstract No: P-49.
 7. Giriraj, S., **Ram, S.** Laboratory diagnosis of human rabies: Recent Advances [abstract]. In: National Conference on Development and Advancement in Conservation, Propagation and Sustainable Utilization of Medicinal Plants (DSUMP-2017); Jan. 20th to 21st, 2017; Gautam Buddha University, Gr. Noida, India; Abstract No: P10.
 8. Chaudhary, R. K., Hussain, Md. S., Gupta, R., **Ram, S.** Combating against bacterial persistence using plant-derived metabolites in-combination with aminoglycosides, [abstract]. In: National Conference on Development and Advancement in Conservation, Propagation and Sustainable Utilization of Medicinal Plants (DSUMP-2017); Jan. 20th to 21st, 2017; Gautam Buddha University, Gr. Noida, India; Abstract No: P21.
 9. Giriraj, S., Chhabra, M., **Ram, S.** Detection of rabies virus infection in spotted Deer's (Axis axis), [abstract]. In: National Conference on Development and Advancement in Conservation, Propagation and Sustainable Utilization of Medicinal Plants (DSUMP-2017); Jan. 20th to 21st, 2017; Gautam Buddha University, Gr. Noida, India; Abstract No: P23.
 10. Chaudhary, R.K., Narain, R., Kumar, A., Singh, S.P., **Ram, S.** Culture-free quantitative detection of *Salmonella* from fruit juice using milk protein-coated charcoal adsorbent [abstract]. In: National Conference on Transpiring Novelty and Hi-tech Knowledge in Advanced Research in Pharmaceutical Sciences; Dec. 29th to 30th, 2015, Teegla Krishna Reddy College of Pharmacy, Hyderabad, India; Abstract No: P- MAN-507-P
 11. Naraian, R., **Ram, S.**, Kaistha, S. D. Occurrence of plasmid linked multiple drug resistance in bacterial isolates of tannery effluent, [abstract]. In: National Conference on "Frontiers in Biological Sciences"; Dec. 4th to 5th, 2011; VBS. Purvanchal University, Jaunpur, India. Abstract No: PP-89
 12. **Ram, S.**, Jyoti, A., Lata, P., Vajpayee, P., Shanker, R. Probing pathogens in wastewaters: real-time PCR probes, [abstract]. In: National Conference on Scope and Applications of Microbes in Agriculture and Environment; Feb.19th to 21st, 2007; Chhatrapati Shahu Ji Maharaj University, Kanpur, India; Abstract No: PP-42.
 13. **Ram, S.**, Vajpayee, P., Shanker, R. Rapid culture-independent quantitative detection of enterotoxigenic *Escherichia coli* in surface waters by real-time PCR with molecular beacon, [abstract]. In: 5th Annual Conference of Biotechnology Society of India; Nov. 17th to 19th, 2007, IITR, Lucknow, India; Abstract No: PP-62.

14. **Ram, S**, Lata, P, Vajpayee, P, Shanker, R. Diversity of 'indicator' bacteria in river Gomti water: drug resistance and virulence genes, [abstract]. In: 29th All India Cell Biology Conference and Symposium on Gene to Genome: Environmental and Chemical Interaction; Jan. 17th to 20th, 2006; IITR, Lucknow, India; Abstract No: S9-PP 85.
15. **Ram, S**; Singh, RL, Shanker, R. Detection of enterohemorrhagic *E. coli* in water: *In-silico* probing for 'real' real-time PCR probes, [abstract]. In: 75th Annual Meeting of the Society of Biological Chemist India; December 8th to 11th, 2006; Jawaharlal Nehru University, Delhi, India; Abstract No: PP82.

Conferences/Seminars/Workshops attended:

Conferences/Seminar Attended:

1. Participated in "National webinar in a series of Advances in Biotechnology for health, food and nutrition to encounter COVID-19 Organized by AKS. University, Satna, MP, May 22nd to 23rd, 2020.
2. Participated in "National Conference on Translational Research in Biotechnology: Current and Future Perspective" Organized by the School of Biotechnology, Gautam Buddha University, Greater Noida, on Nov. 9th, 2019.
3. Participated in "the 1st National Seminar on Green Biotechnology and its Impact on Indian Economy organized by Bennett University, Greater Noida, Feb. 14th, 2019.
4. Participated in "National conference on translational research in biotechnology" Organized by Gautam Buddha University, Greater Noida, on Nov. 9th, 2018
5. Participated in "India International Science Festival (IISF) organised by CSIR-National Physical Laboratory (NPL) Campus, New Delhi, Dec. 7th to 11th, 2016.
6. Participated in "11th National Conference on Diabetes in Pregnancy" Organized by Study Group India, JM Marriott Hotel, New Delhi, Feb. 20th to 21st, 2016.
7. Participated in "the 41st Annual Conference of the Research Society for the Study of Diabetes in India (RSSDI.) Organised by RSSDI, India Expo Centre, Gr. Noida, India, Nov. 8th to 10th, 2013.
8. Participated in "India-France Technology Summit & Technology Platform (IFTS & TP) organised by Government of India" Lalit Hotel, New Delhi, Oct. 23rd to 24th, 2013.
9. Participated in "National Seminar on Proteomics" Organized by the School of Biotechnology, Gautam Buddha University, Gr. Noida, UP, April 17th, 2012.

Faculty Development Program/Short-Term Courses Attended:

1. Six days short-term professional development programme on "NEP-2020: Design and development of Audio/video programme" Organised by Staff Training and Research Institute of Distance Education, in collaboration with electronic media production centre (EMPC), IGNOU, New Delhi, November 9th - 16th, 2021.
2. Three days online training workshop on "Creative and Innovative Use of Google Tools to Create Programme Specific WEAS Portals" Organised by the National Centre for Innovations in Distance Education (NCIDE). IGNOU, New Delhi, October 17th - 19th, 2022.
3. Six days short-term professional development programme on "Design and Development of SLMs for Distance and Online Learning" Organised by Staff Training and Research Institute of Distance Education, IGNOU, New Delhi, September 22nd - 29th, 2022.

4. One Week FDP on "Academic Writing for Research" Organized by TLC, Ramanujan College University of Delhi, March. 21st - 27th, 2022.
5. One day "follow-up programme on 'Instructional Design in ODL and Online Learning'" organized by Staff Training and Research Institute of Distance Education, IGNOU, New Delhi, March 10th, 2022.
6. Two-week refresher course on "Biomedical Content Writing" organized by TLC, Ramanujan College University of Delhi, Feb 10th-24th, 2022.
7. Two days "Orientation Programme cum Workshop on 'Swayam, Swayam Prabha and Online Programmes of IGNOU'" organized by Center for Online Education (CoE), IGNOU, New Delhi, November 25th- 26th, 2021.
8. One day "Orientation Programme for new faculty at Library and Documentation Division at IGNOU" organized by Library and Documentation Division, IGNOU, New Delhi, November 17th, 2021.
9. Five days, FDP on "Instructional Design for Developing ODL and Online Learning" Organised by Staff Training and Research Institute of Distance Education, IGNOU, New Delhi, October 18th – 22nd, 2021.
10. Five days on "Induction cum Orientation Programme for Newly Recruited Faculty of IGNOU" Organized by Staff Training and Research Institute of Distance Education, IGNOU, New Delhi, September 20th - 24th, 2021.
11. One Week FDP on "Opportunity and challenges in different sectors of Biotechnology post-pandemic" organized by Department of Biotechnology, University institute of engineering and technology (UIET), Kurukshetra University, March 8th-12th, 2021.
12. Participated in "AICTE Training and Learning (ATAL.) Academy Online FDP on "Cyber Security" Organized by School of Computer & Systems Sciences, Jawaharlal Nehru University, Delhi, May 26th to 30th, 2020.
13. One Week STC on "Data Science using R through ICT" Organized by Computer Science and Engineering Department, Gautam Buddha University, Gr. Noida, Nov. 26th to 30th, 2018.
14. Two Weeks Workshop on "Advanced Research Methodology and Statistical analysis" Organized by School of Management, Gautam Buddha University, Gr. Noida, Oct. 22nd to Nov. 3rd, 2018.
15. One Week FDP on "Approaches for In-silico drug designing" Organized by IILM Academy of Higher Learning, College of Engineering and Technology, Gr. Noida, July 3rd to 7th, 2018.
16. One Week STC on "Artificial Intelligence in Engineering Applications" Organized by Netaji Subhas Institute of Technology, New Delhi, Dec. 24th to 30th, 2016.
17. One Week FDP on "Network and Cyber Security" Organized by the School of Computer & Systems Sciences, Jawaharlal Nehru University association with NITTTR, Chandigarh, June 27th to 1st, 2016.

Workshop/Training Attended:

1. National webinar on "Intellectual Property Rights: Protection of Intellectual Property and way forwards" Organized by IPR cell Veer Bhadur Singh, Poorvanchal University, Jaunpur, May 23rd -24th, 2020.
2. Nation workshop on "Intellectual Property Rights (IPR)" organized by CST, UP, at IPR cell, GBU, Gr. Noida, UP, Gr. Noida, March 5th, 2020.

3. International CME-cum-workshop on "Recent Updates in Mind, Body and Medicine" Organized by Government Institute of Medical Science (GIMS), Gr. Noida, Nov. 14th, 2018.
4. The Orientation Program on "Flow Cytometry" is organised by BD-JH FACS Academy, Faculty of Science, Jamia Hamdard University, New Delhi, March 10th, 2014.
5. Orientation Program on "Flow Cytometry" Organized by BD-JH FACS Academy, Faculty of Science, Jamia Hamdard University, New Delhi, Sept. 12th, 2014.
6. National Workshop on "Metabolic using high-resolution Mass Spectrometry" Organized by AB SCIEX, Centre of Excellence, DHR, Holding India Pvt. Ltd., Gurgaon, April 20th, 2014.
7. National Workshop on "Entrepreneurship Development" Organized by the School of Biotechnology, Gautam Buddha University, Gr. Noida and National Small Industries Corporation Ltd, A Govt. of India Enterprise" Feb. 4th, 2014.
8. National Workshop on "Open Educational Resources and WikiEducator" Organized by School of Information and Communication Technology, Gautam Buddha University, Gr. Noida, June 9th to 11th, 2010.
9. National Workshop on "Current Trends in Computing and Bioinformatics:" Organized by University Institute of Engineering and Technology, CSJM University Kanpur, Feb. 23rd to 24th, 2007.
10. National Workshop on "Bioinformatics Analysis using Accelrys GCG and SeqLab" Organized by Institute of Microbial Technology, Chandigarh, Dec. 15th to 17th, 2005.
11. National Workshop on "Research Methodology and Statistical Method in Biomedical Research" Organized by ITRC, Lucknow, July 26th to 28th, 2004.
12. Training Workshop on "Scientific Communication" Organized by ITRC, Lucknow, July 24th to 25th, 2004.
13. Continuing Education Courses on "Toxico-genomics and Metagenomics and Biomarkers of Toxicology & Disease progression" Organized by International conference on toxicity environmental and occupational health, ITRC, Lucknow, Nov. 14th to 17th, 2005.
14. Summer Training program on "Microbiological Quality Control and Effluent Treatment Plant Section" at K. M. Sugar Mills Limited, Faizabad, May 25th to June 25th, 1996.
15. Summer Training program on "Microbiological Quality Control and Effluent Treatment Plant, Section", at Parag Dairy Industry, Lucknow, June 1st to 30th June 1994.

Invited talk/Presentation:

1. Delivered online webinar on "Diagnosis of COVID-19 Infection: Current Issues and Challenges" at Gautam Buddha University, Gr. Noida, UP, May 3rd, 2020.
2. Invited Talk on "Culture free detection of EHEC & ETEC in drinking water using milk protein-coated activated carbon (MP-CAC) along with real-time PCR assay", at Zakir Husain Delhi College, University of Delhi, National Conference on water sustainability: Conservation, Policy Ethics and Science, Department of Environmental Studies & Srishti: Nature and Environment Society, Jan., 21st to 22nd, 2020.
3. Invited Talk on "A rapid, highly sensitive and culture-free detection of enterotoxigenic *E. coli* in various food matrices by molecular beacon" at AKS. University, Satna, MP, International Conference on Advances and Innovations in Biotechnology for Sustainable Development, April 5th to 7th, 2019.
4. Invited Talk on "Use of bentonite coated activated carbon (BCAC) composites to increase the sensitive detection of enterotoxigenic *E. coli* from surface water" at the Central

University of Rajasthan, International Conference on Molecular Basis of Disease and Therapeutics (ICMBDT-2019), March 8th to, 10th, 2019.

5. Invited Talk on "Application of microbial cell for the production of sustainable biofuel" at Gautam Buddha University, Gr. Noida, UP, One-week FDP on future technologies of renewable energy and smart micro-grids, Feb. 2nd to 7th, 2019.
6. Invited Talk on "Role of machine learning in medical image processing" at Gautam Buddha University, Gr. Noida, UP, One-week STC on "Machine learning and its applications (STC-MLA, 2019), Feb., 2nd to 7th, 2019.
7. Session Coordinator in a short-term course on "Machine learning and its applications (STC-MLA, 2019), at Gautam Buddha University, Gr. Noida, UP, from February 2nd to 7th, 2019.

Research grant and fellowships:

1. Development of novel adsorbent for pre-concentration of the pathogens and molecular beacon-based PCR array to enable culture-free detection of the food and waterborne pathogens (23.53 Lac, from SERB)- Completed.
2. Senior Research Fellowship at Environmental Microbiology Division, CSIR-IITR, Lucknow, December 15th, 2004.
3. Junior Research Fellowship at Environmental Microbiology Division, CSIR-IITR, Lucknow, December 16th, 2002.

Awards and honours:

1. Outstanding Researcher Award in the field of Microbiology, 27th Annual Conference of the Indian Association of Clinical Medicine, Organized by Government institute of medical sciences IMS, Gr. Noida, November 15th to 17th, 2019
2. Best Oral Presentation Award at the International Conference on Toxicology, Environment and Occupational Health, Society of Toxicology, India, Organized by Industrial Toxicology Research Center, Lucknow, November 14th to 17th, 2005.

Membership in professional bodies

1. Life member- Society of Bioinformatics and Biological Sciences (SBBS-2019), Membership/Registration No.: LM19SCA08
2. Life Member - Indian Science Congress Association (2013), Membership/Registration No.: LM23587
3. Life Member-Association of Microbiologists of India (2013), Membership/Registration No.: LM 3532-2013
4. Life Member - Biotech Research Society of India (BRSI, 2007), Membership/Registration No.: LM395
5. Life Member - Society of Toxicology India (STOX, 2006), Membership/Registration No.: LM2006

Other academic and outreach activities:

Member of Editorial Board of Journals:

1. International Journal of Medical and Allied Health Sciences
2. Journal of Environmental Biology

Reviewer of Journals:

1. Journal of Applied Microbiology
2. Cellular and molecular biology (Noisy-le-Grand, France)
3. Meta Gene

4. Journal of Medicinal Plant Research

5. Journal of Environmental Biology

Organization of Scientific conferences/Meetings:

1. Organize an expert lecture on "Biosafety regulation of genetically modified organisms (GMOs" Gautam Buddha University, Gr. Noida, UP, April 23rd 2019.
2. Organize an Indo-Taiwan meet on "Future possibility for strengthening Inter-Disciplinary Research between India (Gautam Buddha University, Gr. Noida, UP, India) and Taiwan (National Sun Yat-sen University, Taiwan) on Biotechnology", Jan. 8th, 2019.

Administrative responsibility at previous Institute (Gautam Buddha University)

University level

S. No.	Other academic and outreach activities at GBU	Duration
1.	Assistant Registrar (Extra Charge)	2021 to 2021
2.	Member-Governing body of RUSA,UP	2021 to 2021
3.	Ad. Member Secretary, IBSC	2021 to 2021
4.	Member-Institution, IBSC	2016 to 2021
5.	Member-Library Committee	2012 to 2014
6.	Member-Anti-ragging Committee	2012 to 2013
7.	Warden-Birsa Munda Hostel	2011 to 2012
8.	Member-Grievance Redressal for Students	2011 to 2012
9.	Purchasing Committee	2011 to 2012
10.	Member-Tender preparation and advert. Committee	2011 to 2012
11.	Warden-Married Research Scholar Hostel	2009 to 2010

School level

S. No.	Role and Responsibility at GBU	Duration
1.	Lab In-charge (cold room)	2016 to 2017
2.	Member-PhD committee	2013 to 2014
3.	Member-Exam committee	2013 to 2014
4.	Member-Store committee	2012 to 2013
5.	Member-Horticulture committee	2012 to 2013
6.	Member-Aesthetics committee	2012 to 2013

Date: Jan. 10th, 2023

(Dr. Siya Ram)