

CURRICULUM VITAE



HARSHADA JOSHI

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PROFILE SUMMARY

- Teaching and Research experience of more than **15 years**.
- Setting up laboratory: Molecular Microbiology Lab at Department of Biotechnology, MLSU.
- Conducting research in the area of Applied Microbiology (Probiotic Technology, Heavy Metal Tolerance in Bacteria, Calcite solubilization, Bacterial diversity in nature) at MLSU.
- Published research papers and articles (more than 50) in National and International Journals of repute and presented papers (more than 40) in various Conferences and Symposia.
- Authored 5 books in the field of Microbiology and Biochemistry with national publishers.
- Successfully completed two research projects funded by UGC (Rs 10.88 Lakh) and SERB, DST, New Delhi (Rs 13.80 Lakh). RUSA2 MHRD research and innovation project (Rs 30.00 Lakh) is ongoing.
- Supervising several UG/PG Projects and Ph.D. (6 awarded and 4 ongoing) research work as per University regulations.
- Visited 3 European countries France, Belgium and Netherlands for academic pursuance.

WORK EXPERIENCE: more than 15 YEARS

- Nature of Job: Research and Teaching
- Worked as Incharge, Department of Biotechnology MLSU, Udaipur
- Currently holding the post of Course Director, Department of Biotechnology and Microbiology, MLSU, Udaipur

RESEARCH WORK AND CONTRIBUTION

A. Ph.D. Thesis

Title: *Study of Antimicrobial Activity of Lactic Acid Bacteria against Pathogenic and Spoilage Organisms*

Supervisor: **Prof. B L Chaudhary**, Ex Chairman, RBSE, Ajmer (Rajasthan) & Ex Vice-Chancellor, Mohanlal Sukhadia University, Udaipur (Rajasthan) India

Year of Award: **2004**

B. Ph.D. Thesis Supervised/Co-Supervised

- *Molecular Typing and Probiotic Attributes of Lactobacilli*
Dr. Hemant Chundawat (CSIR-NET-JRF) 2014
- *Molecular Typing of Lactobacilli associated with Camel Milk in Southern Rajasthan*
Dr. Deepti Khandelwal (NET-LS, JRF in UGC sponsored project) 2015; Co-Supervised with Prof. B L Chaudhary
- *Study of Bacterial Diversity of Fresh Water of Lakes of Udaipur*
Dr. Inu Rawal (CSIR-NET-JRF) 2016; Co-Supervised with Prof B L Chaudhary
- *Isolation and Characterization of Heavy Metal Tolerant Bacteria from Zawar Region of Udaipur and their Use in Bioremediation*
Dr. Ali Asger Bhojiya (NET-LS, UGC-MANF) 2016
- *Production, Purification and Molecular Profiling of Bacterial Glucose Isomerase*
Dr. Sanjay Parihar (2018)
- *Study of Plant Growth Promoting Activities of Zinc Tolerant Bacteria*
Ms. Monica Sen (NET-LS, JRF in SERB sponsored project) 2018

C. Ph.D. Students Registered

- *Antibacterial Activity of Bacteriocin Producing Probiotic Lactobacilli*
Ms. Preeti Upadhyay (NET-LS, Registered 2013)
- *Isolation and Characterization of Calcite Solubilizing Bacteria from Marble Waste*
Ms. Sakshi Devda (NET-LS, Registered 2015)
- *Characterization of Oil Degrading Bacteria from Oil Contaminated Sites*

Mr. Kailash Chandra (CSIR-NET-JRF, Joined 2018)

- Nanobiotechnological Studies on Defluoridation of Water
Ms. Sangeeta Meena (CSIR-NET-JRF, Joined on 25.06.2020)
- Ms. Tammana Ajmera (Recently joined on 15.03.2021)

RESEARCH PROJECTS COMPLETED/ ONGOING

S. No.	Agency	Title/ Scheme	Tenure	Amount (Rs)
01.	UGC New Delhi	Diversity of Lactobacilli Associated with Camel Milk in Southern Rajasthan/ UGC-MRP	1 st July 2011 - 30 th June 2014	10.88 Lakh
02.	SERB, DST, New Delhi	Diversity of Metal Tolerant Bacteria Occurring in Heavily Polluted Soil and Mine Spoil in Zawar, Udaipur (India)/ FAST TRACK YOUNG SCIENTIST	6 th July 2012 - 30 th June 2015	13.80 Lakh
03.	RUSA, MHRD, New Delhi	Screening and Use of Calcite Solubilizing Bacteria for Restoration of Marble Slurry Contaminated Soil	2020 (Ongoing)	30.00 Lakh

RESEARCH PUBLICATIONS:

a. Published Papers in Journals

1. Bhojiya, A. A., **Joshi, H.**, Upadhyay, S. K., Srivastava, A. K., Pathak, V. V., Pandey, V. C., Jain, D. 2021. Screening and Optimization of Zinc Removal Potential in *Pseudomonas aeruginosa*-HMR1 and its Plant Growth-Promoting Attributes. Bull. Environ. Contam. Toxicol. doi:10.1007/s00128-021-03232-5. PMID: 33860803. (**IF2020: 2.151**)
2. Upadhyay P. and **Joshi H.** 2021. Cell Viability of *Lactobacillus plantarum* CM114 and *Lactobacillus rhamnosus* CW48 in skim milk during refrigeration. *Res. J. Biotech.* 16 (3): 52-54. UGC CARE (Group A) no. 383
3. Upadhyay, P. and **Joshi, H.** 2020. Viability of *Lactobacillus fermentum* CM36 and *Lactobacillus rhamnosus* CW40 in skimmed milk during refrigeration. *J. Camel Practice Research.* 27(1):77-79. ISSN: 0971-6777, UGC CARE (Group A) no. 233 (**IF2020: 0.31**)
4. Upadhyay, P. and **Joshi, H.** 2019. Molecular characterization and evaluation of probiotic potential of *Lactobacillus rhamnosus* CW48 isolated from cow milk. *J. Emerg. Technologies Innov. Res.* 6(2): 627-632. ISSN: 2349-5162, UGC Journal no. 63975.
5. Upadhyay, P. and **Joshi, H.** 2019. Study of antibiotic resistance pattern of *Lactobacillus plantarum* CM114 isolated from camel milk. *Int. J. Res. Analytical. Rev.* 6(1): 1511-1515. ISSN: 2349-5138, UGC Journal no. 43602.
6. Preeti and **Joshi, H.** 2018. Assessment of probiotic properties of *Lactobacillus fermentum* CM36 isolated from camel milk. *Intl. J. Food. Ferment. Technol.* 8(1): 75-79. ISSN: 2249-1570

7. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2018. Water quality assessment using physicochemical and bacteriological parameters of Fateh Sagar lake, Udaipur, India. *Water Resources*. 45(3): 427-435. ISSN: 0097-8078, UGC Journal No. 32832, (**IF2020: 0.638**)
8. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2018. Antibiotic resistance of *Citrobacter* spp. isolated from lakes of Udaipur, India. *World J. Pharma. Research*. 7(5): 1355-1364. ISSN: 2277-7105, UGC Journal No. 47332
9. Parihar, S. and **Joshi, H.** 2018. Screening and production of extracellular alpha – amylase, protease and glucose isomerase from mesophilic *Bacillus licheniformis* GINM-3 isolated from agricultural soil. *World J. Pharma. Research*. 7(4):1417-1428. ISSN: 2277-7105, UGC Journal No. 47332
10. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2018. Statistical analysis of physico-chemical parameters of water of Pichhola lake of Udaipur (Rajasthan), India. *Asian J. Biochem. Pharma. Research*. 1(8): 13-19. ISSN: 2231-2560, UGC Journal No. 48861
11. Parihar, S. and **Joshi, H.** 2017. Isolation and extracellular screening of glucose isomerase producing bacteria isolated from agriculture soil. *World J. Pharma. Research*. 6(12):816-820. ISSN: 2277-7105, UGC Journal No. 47332
12. Sen, M. and **Joshi, H.** 2017. Characterization of phosphate solubilizing bacteria isolated from mine tailings of Zawar Mines, Udaipur, India. *Int. J. Current Microbiol. Applied Sci*. 6(8):588-596. ISSN: 2319-7706
13. Chaudhary, J., Purohit, S., Jinger, S. and **Joshi, H.** 2016. Thermal and microbial studies of copolymers of acrylonitrile/ acrylamide/ vinyl acetate of N-substituted maleimide. *Int. J. of Chem. and Phy. Sci*. 5(3): 30-36. ISSN: 2319-6602, UGC Journal No. 48283
14. Sen, M. and **Joshi, H.** 2016. Determination of minimum inhibitory concentration and antibiotic susceptibility of zinc tolerant bacteria isolated from mine soil of Zawar mines. *Indian. J. Fund. Appl. Life Sci*. 6(2): 23-29. ISSN: 2231-6345
15. Bhojiya, A.A. and **Joshi, H.** 2016. Study of potential plant growth-promoting activities and heavy metal tolerance of *Pseudomonas aeruginosa* HMR16 isolated from Zawar, Udaipur, India. *Curr. Trends Biotechnol. Pharm*. 10(2):161-168. ISSN: 0973-8916, UGC Journal No. 14438
16. Chaudhary, J., Jinger, S., Purohit, S. and **Joshi, H.** 2016. Studies on thermal, microbial behaviours of copoly(azo-maleimide-acrylic acid/vinyl acetate) and terpoly(azo-maleimide-acrylic acid-vinyl acetate): synthesis and characterization. *Asian J. Chem*. 28(7): 1607-1610. ISSN: 0970-7077, UGC Journal No. 8774
17. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2016. Isolation, identification and antibiotics resistance of *Aeromonas* spp. from lakes of Udaipur (Rajasthan), India. *Asian J. Pharmaceutics*. 10(2):132-136. ISSN:0973-8398, UGC Journal No. 8807

18. Bhojiya, A. A. and **Joshi, H.** 2016. Heavy metal tolerance pattern of *Pseudomonas putida* isolated from heavy metal contaminated soil of Zawar, Udaipur (India). Int. J. Inno. Know. Concepts. 4(1):58-64. ISSN: 2454-2415, UGC Journal No. 64094
19. Bhojiya, A. A. and **Joshi, H.** 2015. Identification and functional characterization of *Pseudomonas putida* isolated from heavy metal polluted sites of Zawar, Udaipur. Rev. Microbiol. Ind. San et Environ. 9(1): 20-34. ISSN: 2028-0351
20. Chundawat, H. and **Joshi, H.** 2015. Probiotic potential, antibacterial and antioxidant activities of *Lactobacillus plantarum* CM1. Int. J. Adv. Sci. Engg. Tech. 3(3):127-131. ISSN:2321-9009
21. Sen, M. and **Joshi, H.** 2015. Study of phosphate solubilizing activity of lead tolerant *Pseudomonas aeruginosa* HMT 51 isolated from Zawar mines, Udaipur (India). Research J. Recent Sci. 4: 280-282. ISSN: 2277-2502
22. Chundawat, H. and **Joshi, H.** 2015. Antagonistic effect of *Lactobacillus* isolates from cow milk on selected pathogenic bacteria. Research J. Recent Sci. 4: 173-176. ISSN: 2277-2502
23. Khandelwal, D., **Joshi, H.** and Chaudhary, B. L. 2015. Antagonistic effect of lactobacilli of camel milk against *Aeromonas veronii* isolated from Pichhola lake, Udaipur, Rajasthan, India. Research J. Recent Sci. 4:170-172. ISSN: 2277-2502
24. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2015. Study of antibiotic resistance pattern of *Escherichia coli* PS 58 isolated from Pichhola lake of Udaipur, Rajasthan, India. Research J. Recent Sci. 4:155-158. ISSN: 2277-2502
25. Bhojiya, A. A. and Joshi, H. 2015. Identification of *Pseudomonas* using probabilistic identification of bacteria (PIB) Software. Research J. Recent Sci. 4:14-18. ISSN: 2277-2502
26. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2014. Correlation study on physico-chemical parameters for assessment of water quality of Fateh Sagar lake of Udaipur (Rajasthan), India, The Ecoscan. 5: 111-119. ISSN: 0974-0376
27. Bhojiya, A. A. and **Joshi, H.** 2014. Characterization and zinc tolerance of *Pseudomonas* isolated from Zawar Mines Udaipur, India, J. Herb. Med. Toxicol. 8(1): 62-66. ISSN: 0973-4643
28. Khandelwal, D., **Joshi, H.** and Chaudhary, B. L. 2014. Antibiotic resistance pattern of *Lactobacillus fermentum* CMU29 isolated from camel milk. J. Herb. Med. Toxicol. 8(1): 34-36. ISSN: 0973-4643
29. Rawal, I., **Joshi, H.** and Chaudhary, B.L. 2014. Study of water quality of lake Pichhola of Udaipur (India), J. Herb. Med. Toxicol. 8(1): 72-75. ISSN: 0973-4643

30. Chundawat, H. and **Joshi, H.** 2013. Isolation, identification and detection of bile tolerance of lactobacilli. Asian J. Microbiol. Biotechnol. Environ. Sci. 15 (2): 259-262. ISSN: 0972-3005, UGC Journal No. 8799
31. Khandelwal, D., **Joshi, H.** and Chaudhary, B. L. 2013. Microbial quality of camel milk in Udaipur (Raj.), Asian J. Microbiol. Biotechnol. Environ. Sci. 15 (1): 177-179. ISSN: 0972-3005, UGC Journal No. 8799
32. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2013. Molecular identification of *Escherichia coli* isolated from lakes of Udaipur (Raj.), India. Asian J. Microbiol. Biotechnol. Environ. Sci. 15 (1): 129-131. ISSN: 0972-3005, UGC Journal No. 8799
33. Chundawat, H. and **Joshi, H.** 2012. Screening of lactobacilli for bile salt hydrolase activity using PCR. Int. J. Agri. Food. Sci. Tech. 3(3):173-175. ISSN: 2249-3050
34. Khandelwal, D., **Joshi, H.** and Chaudhary, B. L. 2012. Molecular identification of lactobacilli isolated from camel milk. Int. J. Agri. Food. Sci. Tech. 3(3):170-172 ISSN: 2249-3050
35. Rawal, I., **Joshi, H.** and Chaudhary, B. L. 2012. Isolation, identification and screening of efficiency of phosphate solubilizing bacteria from lakes of Udaipur (Raj.), India. Int. J App. Agri. Res. 7(3):160-163 ISSN: 0973-2683
36. Bhojiya, A.A. and **Joshi, H.** 2012. Isolation and characterization of zinc tolerant bacteria from Zawar mines Udaipur, India. Int. J. Env. Engg. and Management.3 (4):239-242. ISSN: 2231-1319
37. Singhal, K., **Joshi, H.** and Chaudhary, B. L. 2011. Influence of initial concentrations of cholesterol on the uptake of cholesterol by the standard *Lactobacillus* strains and *Lactobacillus* isolates. IJPI's J. Biotechnol. and Biotherapeutics. 1(4): 1-6. ISSN: 2229-6824
38. Singhal, K., **Joshi, H.** and Chaudhary, B. L. 2010. Bile and acid tolerance ability of probiotic *Lactobacillus* strains. J. Global Pharma. Technol. 2(12): 17-25. ISSN: 0975-8542, UGC Journal No. 28354
39. Singhal, K., **Joshi, H.** and Chaudhary, B. L. 2009. Antimicrobial activity, antibiotic resistance and bile salt hydroyase activity of *Lactobacillus* spp. Environ. Biol. Conservation. 14:6-9. ISSN: 0971-782X, UGC Journal No. 64726
40. Singhal, K., **Joshi, H.** and Chaudhary, B. L. 2009. Identification of lactobacilli by PIB software. J. Appl. Pure Microbio. 3(1):261-266. ISSN 0973-7510, UGC Journal No. 19449, **Impact factor 0.23.**
41. Singhal, K., **Joshi, H.** and Chaudhary, B. L. 2008. Isolation of bile tolerant lactobacilli and their biochemical characterization. J. Appl. Pure Microbiol. 2(2): 501-505. ISSN 0973-7510, UGC Journal No. 19449, **Impact factor 0.23**

42. **Joshi, H.** and Chaudhary, B. L. 2007. *In vitro* inhibition of toxic bacteria by bacteriocins of *Lactobacillus* strains. J. Herbal Med. Toxicol. 1 (2): 55-57. ISSN: 0973-4643
43. Jat J. L., Salvi V. K., Talesra G. L. and **Joshi, H.** 2006. Synthesis and antimicrobial evaluation of some pyrazolo-thiazolyl alkoxy-1H-isoindole-1, 3(2H)-dione derivatives. J. Sulfur Chem., 27(5) 445-453. ISSN: 1741-5993, UGC Journal No. 10712, **Impact factor 1.963**
44. **Joshi, H.**, Chaudhary, B. L. and Purohit, S. D. 2005. Effect of plant growth regulators and polyamines on *in vitro* shoot multiplication of *Nicotiana tabacum* L. Indian J. Appl. Pure Biol. 20 (2): 145-148. ISSN: 0970-2091, UGC Journal No. 20716
45. **Joshi, H.**, Chaudhary, B. L. and Vij, S. 2004. Effect of culture conditions on antibacterial activity of bacteriocinogenic *Lactobacilli casei*. Asian J. Microbiol. Biotechnol. Env. Sc. 6(4): 563-566. ISSN: 0972-3005, UGC Journal No. 8799
46. **Joshi, H.**, Chaudhary, B. L. and Vij, S. 2004. Inhibition of food-borne bacterial pathogens by bacteriocins from *Lactobacillus* sps. Indian J. Environ. Sci. 8(2): 141-142. ISSN: 0971-8958, UGC Journal No. 47928
47. **Joshi, H.**, Chaudhary, B. L. and Batish, V. K. 2004. Identification of lactobacilli by PCR. Biosci. Research Bull. 20 (1): 19-22. ISSN: 2320-3161, UGC Journal No.14875
48. **Joshi, H.**, Chaudhary, B. L., Vij, S and Batish, V. K. 2004. Inhibitory activity and characteristics of bacteriocin produced by *Lactobacillus casei*. J. Dairying Food Home Sci. 23(2): 126-129. **ISSN: 0971-4456**, UGC Journal No.**7049**
49. **Joshi, H.** and Chaudhary, B. L. 2004. Comparison of methods for detection of antibacterial activity of lactobacilli. Indian J. Appl. Pure Biol. 19 (1): 59-62. ISSN: 0970-2091 UGC Journal No.20716
50. **Joshi, H.**, Chaudhary, B. L. and Vij S. 2003. Factors influencing production of bacteriocin by *Lactobacillus plantarum*. Indian J. Dairy Biosci. 14(1): 28-32. ISSN: 0971-5436
51. **Joshi, H.**, Chaudhary, B. L and Vij, S. 2003. Study of factors affecting the production of bacteriocin by *Lactobacillus casei*. Pb. Univ. Res. J. (Sci.). 53. 155-161. ISSN: 0555-7631 UGC Journal No. 36925
52. **Joshi, H.**, Chaudhary, B. L. and Vij S. 2003. Factors influencing antibacterial activity of bacteriocinogenic *Lactobacillus plantarum*. Biosci. Research Bull. 19 (2): 87-92. ISSN: 2320-3161, UGC Journal No. 14875
53. **Joshi, H.**, Chaudhary B. L., Batish V. K and Vij S. 2003. Inhibitory activity of bacteriocin produced by *Lactobacillus plantarum*. Biosci. Research Bull. 19 (1): 7-12. ISSN: 2320-3161, UGC Journal No. 14875

54. Joshi, H., and Chaudhary, B. L. 2003. Identification of lactobacilli by biochemical tests using PIB Software. Indian J. Appl. Pure Biol. 18 (2): 179-182. ISSN: 0970-2091, UGC Journal No. 20716

b. Articles/Chapters published in Books

1. Chandra, K. and Joshi, H. 2021. Biotechnology Based Green Energy: A solution towards sustainable development. In: "Current Research in Molecular Biology and Biotechnology" Hanumanthappa Makari (Ed.) Vol. 1 pp. Bright Sky Publications, New Delhi, India. (Accepted)
2. Joshi, H. and Upadhyay, P. 2021. Comparison of Viable Cell Count of *Lactobacillus* Strains Incorporated into Skim Milk during Refrigerated Storage. In: "Research in Microbiology" Adesh Kumar (Ed.), Vol. 5 pp. 69-79. AkiNik Publishers, New Delhi, India. ISBN: 978-93-90846-87-0.
3. Joshi, H. and Devda, S. 2021. Isolation and Characterization of Calcite Solubilizing Strain from Marble Slurry Dumped in Sukher, Udaipur (Raj.) India. In: "Advances in Biotechnology and Bioscience" Shailesh Kumar (Ed.) Vol. 8 pp. 27-39. AkiNik Publishers, New Delhi, India. ISBN: 978-93-90846-93-1.
4. Sen, M. and **Joshi, H.** 2015. Isolation and characterization of cadmium tolerant *Cupriavidus* spp. from mine spoil of Zawar Mines, Udaipur (India). In: "Energy Research and environmental Management: An Innovative approach". G. C. Mishra and S. K. Yadav (Eds.) pp. 108-111. Krishi Sanskriti Publications, New Delhi, India. ISBN: 978-81-930585-2-7

c. Full Papers in Conference Proceedings

1. Bhojiya, A. A. and **Joshi, H.** 2014. Plasmid-Mediated Transfer of Heavy metal tolerance gene to *Escherichia coli* isolated from Fateh sagar lake, Udaipur, Rajasthan, India. In: Proceedings of 15th World Lake Conference, University of Perugia, Perugia, Italy. C. Biscarini *et al* (Eds). pp. 9-12. Science4Press, Italy. ISBN: 978-88-965-04-07-9
2. Khandelwal, D., **Joshi, H.** and Chaudhary, B. L. 2014. Antibacterial activity of lactobacilli against *Aeromonas veronii* isolated from Pichola lake, Udaipur, Rajasthan, India. In: Proceedings of 15th World Lake Conference, University of Perugia, Perugia, Italy. C. Biscarini *et al* (Eds). pp. 16-18. Science4Press, Italy. ISBN: 978-88-965-04-07-9
3. Rawal, I., **Joshi, H.** and Chaudhary, B.L. 2014. Analysis of physical, chemical and bacteriological parameters of Lake Pichhola in Udaipur District (Rajasthan), India. In: Proceedings of 15th World Lake Conference, University of Perugia, Perugia, Italy. C. Biscarini *et al* (Eds). pp. 24-27. Science4Press, Italy ISBN: 978-88-965-04-07-9

4. Joshi, H. 2020 Calcite solubilizing activity of *Exiguobacterium aquaticum* CS6 isolated from marble slurry dumped in Sukher, Udaipur, Rajasthan, India. In: Proceedings of the 107th Indian Science Congress, Bangalore, 2020. Dr. Ranbeer Singh Rawal (Eds). pp. 96. Indian Science Congress Association, Kolkata.

BOOKS PUBLISHED

1. **Recent Trends in Probiotic Technology** (2021) Harhada Joshi; AkiNik Pulications, New Delhi, ISBN: 978-93-90846-16-0
2. **Pharmaceutical Microbiology** (2005) B. L. Chaudhary and Harshada Joshi; Apex Publishing House, Udaipur. Revised edition 2007, ISBN: 81-301-0022-3
3. **Pharmaceutical Biochemistry** (2006) B. L. Chaudhary, Harshada Joshi and Jyoti Chaudhary; Apex Publishing House, Udaipur. First edition, ISBN: 81-301-0030-4
4. **Elements of Biochemistry** (2006) B. L. Chaudhary, Harshada Joshi and Jyoti Chaudhary; Apex Publishing House, Udaipur. First edition, ISBN: 81-301-0037-1
5. **Pharmaceutical Biochemistry & Clinical Pathology** (2008) B. L. Chaudhary, Harshada Joshi and Jyoti Chaudhary; Apex Publishing House, Udaipur, First edition, ISBN: 81-301-0051-7
6. **Pharmaceutical Biochemistry & Clinical Pathology: A Practical Manual** (2009) B. L. Chaudhary, Harshada Joshi and Jyoti Chaudhary; Apex Publishing House, Udaipur, First edition, ISBN: 13:978-81-301-0060-9

SPECIALIZED TRAINING AND ORIENTATION COURSES ATTENDED

1. Joined the ARPIT Course for Career Advancement Scheme (CAS) promotion Biotechnology, Offered by NRC, Mohanlal Sukhadia University, Udaipur, Rajasthan held on 30.03.2019
2. Attended DST-NIMAT sponsored Faculty Development Program on “Promotion of Entrepreneurship Amongst Student” from 18th Sept to 1st Oct 2016 organized by Entrepreneurship Development Cell, Mohanlal Sukhadia University, **Udaipur**
3. Attended Faculty Development Programme on “Research Methodology and Data Analysis Using Advanced Statistical Tools” at Pacific University, **Udaipur** from 21st to 27th December, 2014
4. Attended UGC sponsored Refresher Course in Life Sciences at Academic Staff College, Punjabi University, **Patiala** from 17th November to 6th December, 2014
5. Attended UGC sponsored Refresher Course in Life Sciences at Academic Staff College, University of North Bengal, **Siliguri**, Darjeeling from 19th September to 9th October, 2013
6. Attended UGC sponsored Refresher Course in Life Sciences at Academic Staff College, Himachal Pradesh University, **Shimla** from 7th to 26th May 2012
7. Attended 69th Orientation Programme held at Academic Staff College, Jai Narain Vyas University, **Jodhpur** during 16th November to 12th December 2009

8. Attended training programme on Bacterial Identification Techniques at Prosthecate Bacteria and Micrococcus Center, Department of Microbiology, Maharshi Dayanand University, **Ajmer** from 27th to 30th November, 2002
9. Attended training programme on Application of Different Molecular Biology Techniques in Lactobacilli at Molecular Biology Unit, Dairy Microbiology Division, National Dairy Research Institute, **Karnal** from 1st to 31st May, 2002

NATIONAL AND INTERNATIONAL CONFERENCES AND SYMPOSIA ATTENDED

1. International Conference of Soil and Water Resource Management (ICSWRM 2021) CTAE, MPUAT, Udaipur, 26-27, Feb. 2021.
2. International Webinar on “Biotechnological Advancement of 21st Century” Department of Biotechnology & Microbiology, Atmiya University, Rajkot, 31st October to 1st November 2020.
3. International Webinar on “Impact of Covid-19 on the Public Health and Global Economy”, Department of Zoology, MLSU, Udaipur, 28th June 2020.
4. National Web Conference on “Relevance and Importance of Health and Wellness in Covid-19”, ASSOCHAM, New Delhi, 2nd, 6th and 10th June 2020.
5. National Webinar on “Challenges of Living with Covid-19”, Department of Science, Krishna Group of Colleges, Bijnor, 7th June 2020.
6. International Webinar on “Life with Covid-19”, Maharani Lakshmi Bai College, GJUST, Hisar, 6th June 2020.
7. Environmental Awareness Online Quiz, Department of Chemistry, MLSU, Udaipur 5th June 2020.
8. National conference on “Green chemistry for clean environment”, Udaipur, 27th July 2019.
9. National conference on “Emerging issues in research and development”, Jodhpur, 3rd February 2019.
10. National seminar on “Industrial Advancement and Academic Research: A Correlation”, Department of Pharmaceutical Sciences, MLSU, Udaipur, 20th March 2018
11. International congress on “Plant Based Natural Products: Phytochemicals, Phototherapeutics and Phytonutraceuticals”, Indian Society of Chemists and Biologists, Udaipur, 19th - 21st February 2018
12. Brainstorming Session for Strengthening Inter-disciplinary and Inter-institutional Research in the State of Rajasthan, Department of Geography, MLSU, Udaipur, 12th - 13th January 2018
13. National symposium on “Photosynthesis”, Department of Botany, MLSU, Udaipur, 8th - 9th December 2017
14. Brainstorming Session for Developing and Exclusive Program for Women Scientist in the Field of Geospatial Technology for Training, Skill Development and Employment Generation, Department of Geography, MLSU, Udaipur, 25th - 26th September 2017
15. National conference on “Impact of Pharmaceutical Biotechnology on the Future of Medicine”, Geetanjali Institute of Pharmacy, Udaipur, 24th - 25th March 2017
16. National seminar on “Genetically Modified Food and Food Security”, Shree M. & N. Virani Science College, Rajkot, 11th February 2017

17. International conference on “Eco Friendly and Socially Responsive Economy and Equity: Issue and Challenges of 21st Century for Emergent Sustainable Developments Amongst SAARC Countries”, Department of Zoology, MLSU, Udaipur, 9th - 11th January 2017
18. National conference and workshop on “Green chemistry: Teaching and Technology”, Royal Society of Chemistry, London and Department of Chemistry, Udaipur 20th October 2016
19. National seminar on “Biodiversity, Conservation and Eco Tourism” Department of Botany, Maharana Pratap Govt. P.G. College, Chittorgarh, 27th - 28th September 2016
20. National conference on “Natural Vegetation, Environmental Balance and Plantation”, Faculty of Management, Pacific University, Udaipur, 25th July 2016
21. National conference on “Recent Advances in Biological Sciences, Biotechnology and Sustainable Development”, Department of Botany and Department of Biotechnology, MLSU, Udaipur, 18th - 19th March 2016
22. The 6th World Congress on Biotechnology, Omics International, New Delhi, 5th - 7th October 2015
23. International Conference on “2015 NextGen Genomics, Biology, Bioinformatics and Technologies”, SciGenom Research Foundation, CCMB and IOB, Hyderabad, 1st - 3rd October 2015
24. International conference on “Antimicrobial resistance, novel drug discovery and development: Challenges and opportunities”, SRM University, Haryana and International Association of Medical and Pharmaceutical Virologists, New Delhi, 2nd - 3rd March 2015
25. 2nd International conference on “Applied Sciences, Environmental Engineering and Energy Technology for Sustainable Development”, Krishi Sanskriti, New Delhi, 14th - 15th February 2015
26. 5th International conference on “Climate change and sustainable management of natural resources”, Department of Life Sciences, ITM University, Gwalior, 9th - 11th February 2015
27. 4th International Science Congress on “Global Research: Enhancement, reforms and commercialization”, International Science Congress Association and Pacific University, Udaipur, 8th - 9th December 2014
28. National conference on “Climate Change and Environment”, Vidhya Bhawan Rural Institute, Udaipur, 23rd - 24th December 2013
29. 1st Rajasthan science congress on “New frontiers of science and technology and innovation for development in Rajasthan”, Tagore International School, Campus, Jaipur, 11th - 13th May 2013
30. International conference on “Managing change in business and economy”, Faculty of Management Studies, Pacific University, Udaipur, 6th - 7th April 2013
31. 19th ISCB International conference entitled “Recent advances and current trends in chemical and biological sciences”, Indian Society of Chemists & Biologists Lucknow and Department of Chemistry, MLSU, Udaipur, 2nd - 5th March 2013
32. A lecture workshop on “Frontiers in cell and molecular biology”, Vidhya Bhawan Society, Udaipur, The Indian Academy of Sciences, The National Academy of Sciences and Indian National Science Academy, 14th - 15th February 2013

33. International conference on “Agriculture, Foods Sciences & Environmental Technology for Sustainable Global Development”, Krishi Sanskriti, New Delhi, 28th - 29th October 2012
34. 52nd Annual conference of AMI entitled “International conference on Microbial Biotechnology for sustainable development”, Punjab University, Chandigarh, 3rd - 6th November 2011
35. International conference on “Folk and Herbal Medicine”, Department of Botany, MLSU, Udaipur, 25th - 27th November 2010
36. 5th World Congress of Cellular and Molecular Biology, School of Biotechnology, DAV, Indore and World Society of Cellular and Molecular Biology, France, 2nd - 6th November 2009
37. The 96th Indian Science Congress, North Eastern Hill Univeristy, Shillong, 3rd - 7th January 2009
38. 49th Annual Conference of AMI entitled “International Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics”, University of Delhi, Delhi, 18th - 20th November 2008
39. XXXVI Dairy Industry Conference, Indian Dairy Association (North Zone) and Institute of Agricultural Sciences, BHU, Varanasi, 19th - 21st February 2008
40. National symposium on Plant Biotechnology for Conservation, Characterization and Crop Improvement, Department of Biotechnology, MLSU, Udaipur, 8th - 10th February 2008
41. Third international seminar and workshop on “Fermented Foods, Health Status and Social Well-being”, Anand Agriculture University, Anand, in association with Swedish South Asian Network on Fermented Foods, 14th -15th December 2007
42. National conference on “Environment Sciences: Current Status and Emerging Challenges” and 9th Annual meeting of Society for Science and Environment, Department of Botany, MLSU, Udaipur, 16th -17th November 2007
43. National symposium on “Emerging Trends in Plant Biology, Environment Protection and Biotechnology” Department of Botany, MLSU, Udaipur, 9th - 11th October 2006
44. 7th Annual Conference of Society of Science and Environment, Department of Zoology, MLSU, Udaipur, 17th -18th September 2005
45. The 4th World Congress of Cell and Molecular Biology, Universite de Poitiers (France), 7th - 12th October 2005

EXTENSION LECTURE / INVITED TALK DELIVERED

- Delivered invited talk on COVID-19 vaccine at Prasar Bharti, All India Radio, Udaipur which was broadcasted on 25th January, 2021 at 6.00 pm.
- **“Microbiological Techniques - An introduction”** December, 2005, Short term training course on **Modern Methods of Molecular Biology and Biotechnology** sponsored by University Grants Commission, New Delhi.

HONOURS AND AWARDS

- Awarded for significant contributions and accomplishments in academics by Hon’ble Vice Chancellor and Secretary, Higher & Technical Education, Govt. of Rajasthan during International Women’s Day Celebration at Mohanlal Sukhadia University on 8th March 2021

- Awarded **First Prize for poster presentation** in International Conference of Soil and Water Resource Management (ICSWRM 2021) CTAE, MPUAT, Udaipur, 26-27, Feb. 2021.
- Awarded **Active Camel Research Scientist Award 2020** for significant contribution of camel related research during Covid-19 pandemic and contribution of paper in Journal of Camel Practice and Research by Camel Publishing House, Bikaner, India on 7th January, 2021
- Awarded **Shiksha Gaurav Alankaran** by Lions Club, Udaipur Mewar Gaurav on teachers day celebration on 11th Sept., 2019 at UCSSH, MLSU, Udaipur
- Awarded Second Prize for best oral presentation in 7th Annual Conference of Society of Science and Environment, Udaipur held during 17th -18th September 2005.
- Awarded JRF and SRF (CSIR) from a period from 16th August 2001 to 13th August 2005 during Ph.D. research work
- RBSE, Ajmer awarded the certificates of merit in recognition of the high position secured in the list of meritorious candidates qualifying for awards from Rajasthan 1993 (Secondary) and 1995 (Senior Secondary)

MEMBERSHIP OF SCIENTIFIC ORGANIZATIONS

- Life Member, Association of Microbiologists of India, Delhi, 2008
- Life Member, The Indian Science Congress Association, Calcutta, 2009
- Life Member, Swedish South Asian Network on Fermented Foods, Anand, 2007
- Life Member, Society for Science and Environment, Jalgaon, 2005
- Hindi Vigyan Sahitya Parishad, BARC, Mumbai, 2005
- Life Member, The Rajasthan Science Congress Association, Jaipur, 2013

MEMBERSHIP OF ACADEMIC BODIES

- **Member**, Committee of Courses in Biotechnology, Maharana Pratap University of Agriculture and Technology, Udaipur (2010 onwards)
- **Member**, Committee of Courses in Biotechnology, Mohanlal Sukhadia University, Udaipur (2010 onwards)

CONTRIBUTION IN SCIENTIFIC ACTIVITIES

- **Convenor**, International Virtual Conference on “Recent Trends and Innovations in Microbiology”, 15th July 2021 organized by Department of Microbiology, Mohanlal Sukhadia University, Udaipur.
- **Convenor**, International Virtual Conference on “COVID-19: Myths and Facts”, 14th July 2021 organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur.
- **Convenor**, National Webinar on COVID-19: Key Perspective on Food and Neurosciences, 19th May 2021 organized by Department of Biotechnology and Microbiology, Mohanlal Sukhadia University, Udaipur.

- **Co-Convenor**, National Webinar National Education Policy 2020: Research Aspects and Key Proposals, 11th November 2020 organized by Department of Microbiology, Mohanlal Sukhadia University, Udaipur.
- **Co-Convenor**, International Webinar on Career Prospects in Life Sciences: Lets Explore, 7th June 2020 organized by Department of Biotechnology and Microbiology, Mohanlal Sukhadia University, Udaipur
- **Co-Convenor**, E-Quiz Series on covid-19 for Spreading Awareness: Level One (Basics) 20th May 2020 organized by Department of Biotechnology and Microbiology, Mohanlal Sukhadia University, Udaipur
- **Convenor**, (Poster session), International Conference on Folk and Herbal Medicine (Organizing Secretary: Prof. S. S. Katewa), 25th - 27th November 2010, Department of Botany, Mohanlal Sukhadia University, Udaipur
- **Member**, Organizing Committee, National Symposium on “Plant Biotechnology for Conservation, Characterization and Crop Improvement” along with the 29th Annual meeting on Plant Tissue Culture Association (India) from 8th - 10th February 2008, organized by Department of Biotechnology, Mohanlal Sukhadia University, Udaipur
- **Member**, Organizing Committee, National Conference on Environment Sciences: Current Status and Emerging Challenges and 9th Annual meeting of Society for Science and Environment, Udaipur, 16th -17th November 2007

COLLABORATIONS

- Dr. Shilpa Vij, Senior Scientist, Dairy Microbiology Division, National Dairy Research Institute, Karnal
- Dr. V. K. Batish, Principal Scientist (Retd.) Dairy Microbiology Division, National Dairy Research Institute, Karnal
- Dr. Jyoti Chaudhary, Head & Associate Professor, Department of Chemistry, Mohanlal Sukhadia University, Udaipur

COUNTRIES VISITED FOR ACADEMIC PURSUANCE

- **France:** Attended 4th World Congress of Cell and Molecular Biology at University of Poitiers, October 2005; Visited Institut Pasteur, Paris
- **Belgium:** Visited Vrije Universiteit, Brussels (October 2005)
- **Netherlands:** Visited Floriculture Industry and Leather Industry, Amsterdam (October 2005)