## FACULTY PROFILE



Name	NAVEEN KA	ANGO					Date of Birth: 12.0	7.1974		
Designation	PROFESSO	R			Date	of holdir	ng Present Post	31.03	.2014	
Name of the Department and School	MICROBIOL	.OGY					SCHOOL OF BIOL	OGICAL	SCIENCES	
Contact Details	Email : <u>nkan</u>	go@gma	ail.com				Mobile: 9425635	736		
Additional Responsibility in the university, if any	Co-ordinator	, Sophis	ticated Ir	nstrumen	tation Cent	re				
Educational Qualifications (UG onwards)	M.Sc., Ph.D.									
Research Area/Specialization Microbial Enzymes										
Awards/ Honors / Fellowship Conferred (With details thereof)	Fellow, Mycological Society of India (MSI)- 2019 Gold Medal in M.Sc. (Applied Microbiology and Biotechnology) 1995 Gour Samman for securing maximum marks in Life Science Faculty 1995 DoL Scarce Skill post doctoral fellowship, South Africa (2004) UGC-CIMO fellowship, Finland (2008-09)									
Summary of Publications (Number only)	Research Papers	43	Books	03	Chapter in Books		Seminars/ Conferences Proceedings	06	Projects	

## Research Projects (Completed and Ongoing):

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
	Characterization of mannan hydrolyzing enzymes from microorganisms	UGC, New Delhi	2013-2017	F. No. 42-474/ 2013SR	10.50	Completed
		M.P. Council of Science & Technology (MPCST), Bhopal	2015-2017	3589/CST/R&d/ Bio.Proj. / 2014	5.68	Completed
	fructose syrup (HFS) production	Madhya Pradesh Biotechnology Council (MPBC), Bhopal	2012-2015	PA-23/656 dt. 22.11.2012	6.58	Completed

## PUBLICATIONS – 2013 onwards :

National Publications(Details of Research Papers – 2013 onwards):				
2013	<ul> <li>Saxena A., Upadhyay, R. Kumar, D. and Kango, N. (2013) Isolation, antifungal activity and characterization of soil actinomycetes. Journal of Scientific and Industrial Research 72: 491-497(NISCAIR) (IF 0.735)</li> </ul>			
2015	• Saxena A., Upadhyay R. and Kango, N. (2015) Isolation and identification of actinomycetes for production of novel extracellular glutaminase free L-asparaginase. Indian Journal of Experimental Biology(NISCAIR) 53: 786-793 (IF			
2015	• Rawat H. K., Soni H. and <b>Kango N.</b> (2015) Screening of inulinase producing fungi isolated from inulin containing sources and use of exoinulinase in generation of fructose. <b>Madhya Bharti</b> , 59: 10-14.			
2016	<ul> <li>Agrawal, S., Rawat, H.K. and Kango, N. (2016) Isolation and screening of alkaline protease producing bacteria from different soil habitats, Madhya Bharti 60: 44- 48.</li> </ul>			
Internation	nal Publications (Details of Research Papers – 2013 onwards):			
2013	<ul> <li>Ganaie M.A., Gupta, U.S. and Kango, N. (2013)Screening microorganisms for Fructosyl Transferase (FTase) activity for generation of fructo-oligosaccharides (FOS). Journal of Molecular Catalysis B: Enzymatic97: 12– 17</li> <li>Soni H. and Kango, N. (2013) Hemicellulases in Lignocellulose Biotechnology: Recent Patents. Recent patents in Biotechnology 7: 207-218</li> </ul>			
2014	• Ganaie M.A., Rawat, H.K., Wani, O.A., Gupta, U.S. and Kango, N. (2014) Immobilization of fructosyltrasferase by chitosan and alginate for efficient production of fructo-oligosaccharides. Process Biochemistry 49: 840-44.(IF 2.8)			

2015	<ul> <li>Rawat H.K., Ganaie, M.A. and Kango, N. (2015) Production of inulinase, fructosyltransferase and sucrase from fungi on low-value inulin-rich substrates and their use in generation of fructose and fructooligosaccharides. Antonie van Lowwarback 107(2):700.811 (JE 10)</li> </ul>
	<ul> <li>Leeuwenhoek 107(3):799-811 (IF 1.9)</li> <li>Rawat H.K., Jain S.C. and Kango, N. (2015) Production and properties of inulinase from <i>Penicillium</i> sp. NFCC 2768 grown on inulin containing vegetal infusions. Biocatalysis and Biotransformation 33(1):61-68 (IF 1.6)</li> </ul>
	<ul> <li>Soni H., Ganaie A, Pranaw K and Kango, N. (2015) Design-of-experiment strategy for production of mannanase biocatalysts using palm kernel cake and its application to degrade locust bean and guar gum. Biocatalysis and</li> </ul>
	Agricultural Biotechnology 4(2): 229-234 (IF 2.14)
2016	<ul> <li>Rawat H.K., Soni, H., Treichel, H. and Kango, N. (2016) Biotechnological potential of microbial inulinases: Recent perspective. Critical Reviews in Food Science and Nutrition 57 (18): 3818 - 3829 (IF 6.7)</li> </ul>
	<ul> <li>Ahirwar, S., Soni, H., Rawat H.K., Ganaie, A., Pranaw, K. and Kango, N. (2016) Production optimization and functional characterization of thermostable β-mannanase from <i>Malbrancheacinnamomea</i> NFCCI 3724 and its applicability in</li> </ul>
	mannotetraose (M4) generation. Journal of the Taiwan Institute of Chemical Engineers 63:344-353 (IF 3.83)
	<ul> <li>Soni, H., Rawat, H.K., Pletschke, B.I. and Kango, N. (2016) Purification and characterization of β-mannanase from Aspergillus terreus and its applicability in depolymerization of mannans and saccharification of lignocellulosic biomass. 3 Biotech 6: 136 (IF 1.78)</li> </ul>
	<ul> <li>Ahirwar, S., Soni, H., Rawat, H.K., Prajapati, B.P. and Kango, N. (2016) Experimental design of response surface methodology used for utilisation of palm kernel cake as solid substrate for optimised production of fungal mannanase. Mycology, 7 (3): 143-153</li> </ul>
	<ul> <li>Rawat H.K., Soni, H., Treichel, H. and Kango, N. (2016) Biotechnological potential of microbial inulinases: Recent perspective. Critical Reviews in Food Science and Nutrition 57 (18): 3818 - 3829 (IF 6.7)</li> </ul>
	<ul> <li>Ahirwar, S., Soni, H., Rawat H.K., Ganaie, A., Pranaw, K. and Kango, N. (2016) Production optimization and functional characterization of thermostable β-mannanase from <i>Malbrancheacinnamomea</i> NFCCI 3724 and its applicability in mannotetraose (M4) generation. Journal of the Taiwan Institute of Chemical Engineers 63:344-353 (IF 3.83)</li> </ul>
2017	<ul> <li>Ahirwar S., Soni H., Prajapati B., Kango, N. (2017) Isolation and Screening of thermophilic and thermotolerant fungi for production of hemicellulases from heated environment. Mycology 8: 125-134</li> </ul>
	<ul> <li>Rawat, H.K., Soni, H., Kango, N. and Ganesh kumar, C. (2017) Continuous generation of fructose from Taraxacumofficinale tap root extract and inulin by immobilized inulinase in a packed-bed reactor. Biocatalysis and</li> </ul>
	Agricultural Biotechnology 9: 134-140. (IF 2.14)
	<ul> <li>Soni, H., Rawat, H.K., Ahirwar, S. and Kango, N. (2017) Screening, statistical optimized production, and application of β-mannanase from some newly isolated fungi. Engineering in Life Sciences17(4), 392–401 (IF 2.3)</li> </ul>
2018	<ul> <li>Jana, U.K., Prajapati, B.K., Suryavanshi, R.K., Soni, H.K. and Kango, N. (2018) Production optimization and characterization of MOS generating β-mannanase from <i>Aspergillus oryzae</i>. Biresource Technology268: 308-314 (IF 5.8)</li> </ul>
	<ul> <li>Agrawal S., Sharma I., Prajapati B.P., Suryawanshi R.K., Kango N.(2018) Catalytic characteristics and application of L- asparaginase immobilizedon aluminum oxide pellets. International Journal of Biological Macromolecules 114: 504– 511 (IF 4.7)</li> </ul>
	<ul> <li>Prajapati, B.P., Suryawanshi, R.K., Agrawal,S., Ghosh, M. and Kango, N. (2018) Characterization of cellulase from <i>Aspergillus tubingensis</i> NKBP-55 for generation of fermentable sugars from agricultural residues. Bioresource Technology 250: 733-740. (IF 5.8)</li> </ul>
2019	<ul> <li>Choukade, R. and Kango, N. (2019) Characterization of a mycelial fructosyltransferase from Aspergillus tamarii NKRC 1229 for efficient synthesis of fructooligosaccharides. Food Chemistry 286: 434-440(IF 5.3)</li> </ul>
	<ul> <li>Suryawanshi, R.K., Jana, U.K., Prajapati, B.P. and Kango, N. (2019) Immobilization of Aspergillus quadrilineatus RSNK- 1 multi-enzymatic system for fruit juice treatment and mannooligosaccharide generation Food Chemistry 289: 95-102 (IF 5.3)</li> </ul>
	<ul> <li>Agrawal, S., Kango, N. (2019). Development and catalytic characterization of L-asparaginase nano-bioconjugates. International Journal of Biological Macromolecules 135: 1142–1150 (IF 4.7)</li> </ul>
	<ul> <li>Ghosh, M., Dey, K.K. and Kango, N. (2019). Investigation of the Internal Structure and Dynamics of Cellulose by 13C- NMR Relaxometry and 2DPASS-MAS-NMR Measurements. Journal of Biomolecular NMR 73: 601–616 (IF 2.319)</li> </ul>
	<ul> <li>Ghosh, M., Prajapati, B.P., Kango, N. and Dey, K.K. (2019). A comprehensive and comparative study of the internal structure and dynamics of natural β-keratin and regenerated β-keratin by solid state NMR spectroscopy. Solid State Nuclear Magnetic Resonance. 101: 1-11(IF 2.02)</li> </ul>
	<ul> <li>Ghosh, M., Prajapati, B.P., Suryavanshi, R.K., Dey, K.K. and Kango, N. (2019). Study of the effect of enzymatic deconstruction on natural cellulose by NMR measurements. Chemical Physics Letters 727: 105-115 (IF 1.86)</li> </ul>
2020	• Prajapati B.P., Jana U.K., Suryawanshi R.K., Kango, N. (2020)Sugarcane bagasse saccharification using Aspergillus
	<ul> <li><i>tubingensis</i> enzymatic cocktail for 2G bio-ethanol production. Renewable Energy 152: 653-663(IF 5.3)</li> <li>Jana, U.K., Kango, N. (2020). Characteristics and bioactive properties of mannooligosaccharide derived from agro-waste</li> </ul>
Books Publ	mannans. International Journal of Biological Macromolecules. 149: 931-940 (IF 4.7) ished – 2013 onwards
2013	<b>Textbook of Microbiology by N. Kango</b> (2010; Reprint 2013) I.K. International Publishers and Distributors, New Delhi, ISBN 9789380026442. p 436.
2018	Economic Botany and Biotechnology (2018). (Dr. Anil K. Thakur, Dr. Susheel K. Bassi and Dr. Naveen Kango) S.P. Jain, B.E., S. Dinesh & Co., Jalandhar

Chapters i	<b>n Books</b> – 20	013 onwards					
2013	Soni H. and <b>Kango</b> , <b>N</b> . (2013) Microbial mannanases: properties and applications In Advances in Enzyme Biotechnology (Eds.						
2017	Shukla, P. and Pletscke, B.I.) Springer India pp. 41-56. <b>Kango, N.</b> Soni, H. and Rawat H. (2017) Extremophilic Xylanases In Extremophilic Bioprocessing of Lignocellulosic Feedstocks to Biofuels, Value-Added Products, and Usable Power (Eds. Rajesh K. Sani and R. Navanjetha). Springer USA, pp. 73-88						
2019	<ul> <li>to Biofuels, Value-Added Products, and Usable Power (Eds. Rajesh K. Sani and R. Navanietha) Springer USA pp. 73-88.</li> <li>Kango, N., Jana, U. and Choukade, R. (2019) Fungal Enzymes: Sources and Biotechnological <i>In</i> Applications in</li> </ul>						
2013	Advancing Frontiers in Mycology and Mycotechnology- Basic and Applied Aspects of Fungi. (Eds. Satyanarayana, T., Deshmukh, S.K. and Deshpande, M.V.) pp. 515-536						
	<ul> <li>Sharma, I., Kapale, R. and Kango, N. (2019) Ethnic Fermented Foods and Beverages of Madhya Pradesh InHistory, Culture and Science of Ethnic Fermented Foods and Alcoholic Beverages of India (Ed. Tamang, J.P.) Springer Nature Singapore Pte Ltd., Singapore. (In Pres)</li> </ul>						
National S	eminar/Confe	erence/Workshops (Attended – 2013 onwards)					
	2020	Presented oral presentation on Microbial enzymes for generation of 2G-Bioehyanol and prebiotic oligosaccharides from Agrowaste in Science Communicators Meet 2020 held during 107 <sup>th</sup> Indian Science Congress held at University of Agricultural Sciences, GKVK, Bengaluru. 5-6 January 2020					
	2019	Delivered MSI Fellowship lecture onCellulases and hemicellulases of Aspergillus tubingensis: Application in sugarcane bagasse and rice straw valorization in Recent Advances in Biodiversity, Biology and Biotechnology of Fungi & 46th Annual Meeting of the Mycological Society of India, Organized by Department of Biotechnology, Pondicherry University, Kalapet, Pondicherry, 7 - 9 Nov 2019,					
	2019	Delivered an invited talk on Milestones in Microbiology in the INSPIRE internship program organized by Gandhi PR college, Bhopal. 18 Oct 2019					
	2019	Delivered an invited talk on Characteristics of some interesting microbial enzymes Seminar on "Recent Trends in Biological Sciences Department of Microbiology, Barkatullah University, Bhopal 24 May 2019					
	2019	Delivered an invited talk on Recent trends in solid waste management., Y. C. Institute of Science, Satara, Maharashtra 30 Jan 2019					
	2019	Delivered an invited talk on Microbial glycosidases in Dept of Microbiology, M.D. University, Rohtak, Haryana 31 Jan 2019					
	2019	Delivered a talk as resource on Spectrophotometric Measurements in Biological Sciences in Refresher course organized by HRDC, Dr. HarisinghGourVishwavidylaya, Sagar 9 Jan 2019					
	2018	Delivered a talk on Exploring Microbial Diversity in Inspire Science Camp organized at Shivaji Science college, Amravati, Maharashtra 27 Dec 2018					
	2018	Delivered an invited lecture on Harnessing Microbial Diversity for green technologies in National conference on Botany in relation to society and environment held at Govt. TRS College, Rewa 30 March 2018.					
	2017	Delivered an invited lecture on Cellulase and hemicellulase from <i>Aspergillus tubingensis</i> National Conference on Fungal Biology: Recent Trends and Future Prospects & 44rd Annual Meeting of Mycological Society of India Department of Botany, University of Jammu, Jammu. 16 - 18 Nov 2017					
	2017	Delivered an invited lecture on Tools and Techniques in Microbiology Short Term Course (HRDC1-17) on Research Methodology 1st Jul - 06 Aug 2017					
	2017	Delivered a plenary talk on Harnessing Microbial Diversity For Green Technologies in National seminar on 'Toxicological Effects on Biodiversity' held at Govt. Girls PG college (GDC), Rewa. 28 March 2017					
	2017	Chaired a session in National seminar on Digitization of Biodiversity using DNA Barcodes held at Dept of Zoology, Dr. HarisinghGour Vishwavidyalaya, Sagar 12 Feb, 2017.					
	2017	Delivered a plenary talk in International Conference on Genetic Engineering and Biotechnology: 21st Century's Fortier science in the Department of Biotechnology, Jamshedpur Women's College (JSWC). 3-4 February, 2017.					
	2016	N. Kango Delivered an invited lecture on Mannanolytic Activities of Some Fungi in 43rd Annual meet of Mycological Society of India held at BISR, Jaipur 16-18 Nov 2016					
	2016	N. Kango Delivered an invited lecture on Harnessing Microbial Diversity for Enzyme Based Green Technologies in National Workshop on Biodesigning organized by Dept of Biological Science, RD University, Jabalpur 29 March 2016					
	2016	Delivered an invited lecture on 'Harnessing Microbial Diversity for Enzyme Based Green Technologies' in National Workshop on Higher Education and Bio-Designing Organized by Bio–Design Innovation Centre, R.D. University, Jabalpur 29 March, 2016					
	2016	Delivered an invited lecture on 'Production of inulinase, fructosyltransferase and sucrase from fungi and their use in generation of fructose and fructo-oligosaccharides' in National Conference on Emerging Trends in Fungal Biology and Plant Protection Organized by Centre of Advanced Study in Botany, Institute of Science, Banaras Hindu University, Varanasi. 16-18 Feb, 2016					
	2016	Delivered an invited lecture on 'Production optimization and functional characterization of thermostable β- mannanase from <i>Malbrancheacinnamomea</i> NFCCI 3724 and its applicability in mannotetraose (M4) generation' in National Seminar on Plants, Microbes and Environment: Interaction, Challenges and Remedies Organized by Department of Botany, Dr. H.S. Gour VV, Sagar M.P. 20-21 Feb, 2016					
	2016	Delivered an invited lecture on 'Microbial enzymes in green technology' Enzymes in State Level Seminar on Eco- Friendly Technology Organized by Department of Zoology, Govt. Auto. Girls P.G. College of Excellence, Sagar. Jan 27-28, 2016					
	2016	Delivered an invited lecture on Exploring Microbial Diversity for Industrial and Therapeutic Enzymes in 4 <sup>th</sup>					

Model making       Model making         2014       MP Biotechnology Council sponsored Workshop (20.01.2014 - 3.02. 2014) Hand's on training on Microbial Biotechnology         2018       Course Coordinator, MHRD GIAN (25.06.2018- 30.06.2018) Beneficial plant microbe molecular interactions Foreign Expert Dr. Harsh Bais, University of Delaware, USA         2019       Convener, Workshop on Advance Imaging and Microscopy-2019 (25.02.2019- 27.02.2019) Advance Imaging and Microscopy         2014       Organizing secretary, DST-Purse International Conference (13.02.2014-15.02.2014) Frontier Discoveries and Emerging Opportunities in Life Sciences			
2015         Exploring Microbial Diversity for Industrial and Therapeutic Enzymes In National Conference on C-availability with microbias impact on early the environment Manaura Ranit Singhi Collegie, Inder 6 OC 2015           2015         Lad lecture on Production and Characterization of Industrial and Therapeutic Enzymes from Native Microcognamisms in National Conference on Recent Trends In Applied Microbiology, Human Health and Environment Organized by Department of Microbiology, Eundelshand University, Janasi. 27 March 2015           2015         Delivered an invoted tak on Exploring Microbial Diversity, Janasi. 27 March 2015           2015         Exploring Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular Exploring. Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop and Cell and Molecular Biology. ProgReg 2: University, Biopal 23 Sept 2015           2015         Personnead and presented a paper in Intellectual Properties Rights Workshop held Sponsored by MPCST. Biopal and arganized by IG Gort. Engg. College, Sagar, MP2 Sci All 2015           2015         Delivered and presented a paper in Intellectual Properties Rights Workshop held Sponsored by MPCST. Biopal 11:617 May 2015           2015         Delivered and presented Kokata 5-1 and 2013           NetCost English Intervish Statechnologia and properties of indinase from Arthritiumpucchices. NFCC1 2432 in Indias Science Congress Held Kokata 5-1 and 2013           NetCost English Intervish State All Science Congress All Kokata 5-2 and 2013           2013         MP Exented a paper entitled Production and properties of indinase from Arthritiumpucchices. NFCC1			
2015         Lead lecture on Production and Characterization of Industrial and Therapeutic Enzymes from Native Microorganisms in National conference on Necent Trends In Applied Microbiology, Human Health and Environment Organizad by Department of Microbiology, Bundelkhand University, Jhansi, 27 March 2015           2015         Deleviewa an invited taik no Exploring Microbiol Diversity as a source of therapeutic and Industrial enzymes on DBF funded 21 days refresher course on 'Molecular colump, DNA sequencing and Sequence analyses' (15 Sept5. Oct. 2015)           2015         Exploring Microbiol Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular Biology, Popole 5 University. Biopol 23 Server 2015           2015         Presented a paper on Isolation and screening of L-Asparaginase producing bacteria and actioncycles from the sol sample and and presentee in erobing trends in biotechnology to Dept of Biotechnology. DM MPCVF.           2015         Presented a paper on Isolation and screening of L-Asparaginase producing bacteria and actioncycles from the sol sample and organized by IG Cord. Eng. College, Sagar, MP 25 April 2015.           2015         Delivered an invited taik on Biotechnological applications of microbial Enzymes. Therapeutic and Industrial Perspective in Notice Conference on Biotechnology (21 2, 2013- 23 2, 2013) Quiz, Assay, Debate and Model making           2013         MP Biotechnology Council sponsored Events on Microbial technology (21 2, 2014- 23 2, 2013) Quiz, Assay, Debate and Model making           2014         MP Biotechnology Council sponsored Events on Microbial technology (21 2, 2014- 23 2, 2013) Quiz, Assay, Debate and Model making           201		2015	Exploring Microbial Diversity for Industrial and Therapeutic Enzymes in National conference on Co-axial living
Microorganisms in National conference on Recent Trends in Applied Microbiology, 2014           2015         Delivened an invited talk on Exploring Microbial Diversity as source of therapeutic and industrial enzymes on DBT finded 21 days reference rourse on <sup>1</sup> Molecular chering. DNA sequencing and Sequence analysis' [15 Sequence] -5 Oct, 2015; at Centre for excellence in Biotechnology (CEST). MICST. Biopal 26 Sequence analysis' [15 Sequence] and Molecular Biology. Proceedies University. Biopal 23 Seqt 2015           2015         Exploring Microbial Diversity of Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular Biology. People's University. Biopal 23 Seqt 2015           2015         Presented a paper on Islandin and screening of L-Asparaginase producing bacteria and acinomycetes from the soil samples National conference in the Intellectual Properties. Rights Workshop heid Sponsored by MPCST. Biopal 46 and organized by IS Conf. Eng. Celloge, Segar. M22 S Amir 21 S           2015         Periopated and presented a paper in Intellectual Properties of multilase from Arthiniumpuccinicides NFCCI 2432 in Indian Science Congress heid at Kolkate 5-7 Jan 2013           2013         Presented a paper entite Portuction and properties of multilase from Arthiniumpuccinicides NFCCI 2432 in Indian Science Congress heid at Kolkate 5-7 Jan 2013           NPB biotechnology Council sponsored Events on Microbial technology (22.2.2013-23.2.2013) Quiz, Assay, Debate and Model making           2013         MPB biotechnology Council sponsored Events on Microbial technology (22.2.2014) Quiz, Assay, Debate and Model making           2014         MPB biotechnology Council sponsoreed Events on Microbial technology (21.2.2014) Q		2015	
DBT funded 21 days refresher course on "Molecular cloning. DNA sequencing and Sequence analyses" (15 Sept. 5. Oct. 2015)           2015         Exploring Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular Biology. People 5 University Bhopa (23 Sept) (215)           2015         Presented a paper on Isolation and screening of L-Asparaginase producing bacteria and actinomycetes from the soil samples National conference in evolving trends in biotechnology UP (40 Biotechnology, Dr. HSGVV, Sagar 28-3 Mach 15           2015         Presented an organized by IG Govt. Engl. College. Segar. MP2 SA pril 2015           2016         Delivered an invited talk on Biotechnological applications of microbial Enzymes. Therapeutic and Industrial Perspective in National Conference on Bioremediation and our Environment. Noble college. Sagar. Sponsored VM MPCST, Bhopal 16-11 May 2015           2013         Presented a paper entite Reduction and properties of inulinase from Arthriniumpucchiodes NFCCI 2432 in Indian Science Congress Held at Klotkat 5-7 Jan 2013           National         Seminar/Conference Windresnece on Bioremediation and our Environment. Noble college. Sagar. Sponsored 2-013 onwards)           2013         MP Biotechnology Council sponsored Events on Microbial technology (22.2. 2013- 23.2. 2013) Quiz, Assay, Debate and Model making           2014         Model making           2015         Course Coordinator, MHRD GIAN (25.06.2018- 30.06 2018) Beneficial plant microbe molecular interactions Foreign Expert Dr. Harsh Bais, University of Diaware, USA           2014         Organized year entite Interationa			Microorganisms in National conference on Recent Trends In Applied Microbiology, Human Health and Enviornment Organized by Department of Microbiology, Bundelkhand University, Jhansi. 27 March 2015
2015         Exploring Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular Biology. People's University. Bonol 23 Sep 2015.           2015         Presented a paper on Isolation and screening of L-Aparaginase producing bacteria and actionmycetes from the solt samples National conference in evolving trends in biotechnology by Dept of Biotechnology. Dr. HSGW, Bager 28-30 March 15.           2015         Prestribed an apresented a paper in Intellectual Properties Rights Workshop held Sponsored by MPCST, Bhoppi and organized by IG Gorl. Eng. College, Sagar, MP 25 April 2015.           2013         Delivered an invited talk on Biotechnological applications of microbial Enzymes. Therapeutic and Industrial Prespective In National Conference on Biotechnology (22.2. 2013 - 23.2. 2013) Quiz, Assay, Debate and Model making           2013         MP Biotechnology Council sponsored Events on Microbial technology (21.2.2014 - 22.2.2014) Quiz, Assay, Debate and Model making           2014         MP Biotechnology Council sponsored Events on Microbial technology (21.2.2014 - 22.2.2014) Quiz, Assay, Debate and Model making           2018         Course Coordinator, MHRD GIAN (25.06.2018) Beneficial plant microbe molecular interactons Foreign Expert Dr. Harsh Bais, University of Delaware, USA           2014         Drogning scretcharg, DST-Prize International Conference (13.02.2014). Fontier Discoveries and Microscopy           2017         Course Coordinator, MHRD (GYB) Gaised – 2013 onwards)           2018         Course Coordinator, MI-RD (15.06.2013 onwards)           2019         Course Coordinator, MI-		2015	DBT funded 21 days refresher course on "Molecular cloning, DNA sequencing and Sequence analysis" (15 Sept
2015         Presented a paper on Isolation and screening of L-Asparaginase producing bacteria and actionwootes from the soils amples National conference in evolving trends in biotechnology by Dept of Biotechnology. Dr. HSGVV, Sagar 28-30 March 15           2015         Participates National conference in proving trends in biotechnology by Dept of Biotechnology. Dr. HSGVV, Bhopal and organized by IG Govt. Eng. College, Sagar, MP 25 April 2015           2015         Delivered an invited talk on Biotechnological applications of microbial Enzymes. Therapeutic and Industrial Perspective in National conference on Biotechnology and properties of inulinase from Arthriniumpucchiodes NFCCI 2432 in Indian Science Congress held at Kolkata 5-7 Jan 2013           National Seminar/Conference/Whorkshogs (Organized – 2013 onwards)         MP Biotechnology Council sponsored Events on Microbial technology (22.2.2014- 23.2.2013) Quiz, Assay, Debate and Model making           2013         MP Biotechnology Council sponsored Events on Microbial technology (21.2.2014- 22.2.2014) Quiz, Assay, Debate and Model making           2014         MP Biotechnology Council sponsored Workshop (20.0.2018) Beneficial plant microbe molecular interactions Foreign Expert Dr. Harsh Biotechnology 2018         Course Coordinator, MHRD GIAM (25.06.2018) 30.62018) Beneficial plant microbe molecular interactions Foreign Expert Dr. Harsh Biotechnology 2019         Course Coordinator, MHRD GIAM (25.06.2013 onwards)           2014         Organizing screttary, DST-Pure International Conference (13.02.2014). Frontier Discoveries and Emerging Opportunities in Life Sciences         Course Coordinator, MHRD GIAM (25.06.2013 onwards)         Course Coordinator, MHRD Science 2.013 onwards) <td></td> <td>2015</td> <td>Exploring Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular</td>		2015	Exploring Microbial Diversity for Therapeutic and Industrial Enzymes National Workshop on Cell and Molecular
2015         Participated and presented a paper in Intellectual Properties Rights Workshop held Sponsored by MPCST. Bhopal and organized by IG Goxt. Eng. College, Sagar. MP2 56 April 2015           2015         Delivered an invited talk on Biotechnological applications of microbial Enzymes: Therapeutic and Industrial Perspective in National Conference on Bioremediation and our Environment, Noble college, Sagar, Sponsored by MPCST, Bhopal 16-17 Way 2015           2013         Presented a paper entitled Production and properties of inulinase from Arthriniumpucchiades NFCCI 2432 in Indian Science Congress held at Kolkats 5-7 Jan 2013           National Seminar/Conference/Workshops (Organised – 2013 onwards)         MP Biotechnology Council sponsored Events on Microbial technology (21.2.2014- 22.2.2014) Quiz, Assay, Debate and Model making           2014         MP Biotechnology Council sponsored Events on Microbial technology (21.2.2014) Aug., Assay, Debate and Model making           2018         Course Coordinator, MHRD GIAN (25.06.2018- 30.06.2018) Beneficial plant microbe molecular interactions Foreign Expert Dr. Harsh Bais, University of Delaware, USA           2019         Course Coordinator, MHRD GIAN (25.06.2018- 30.06.2019) (25.02.2019- 27.02.2019) Advance Imaging and Microscopy           2014         Organizing secretary, DST-Purse International Conference (13.02.2014-15.02.2014) Frontier Discoveries and Emerging Opportunities in Life Sciences           2017         Convener, Workshop on Advance Imaging and Microscopy-2019 (25.02.2019- 27.02.2019) Advance Imaging and Microscopy           2014         Organizing secretary, DST-Purse International Conference (13.02.2		2015	Presented a paper on Isolation and screening of L-Asparaginase producing bacteria and actinomycetes from the soil samples National conference in evolving trends in biotechnology by Dept of Biotechnology, Dr. HSGVV,
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<ul> <li>Life Member, Society of Basic and Applied Mycology</li> <li>Other Academic Achievements :         <ul> <li>(i) Membership of Editorial Boards: National/ International (With details of the journal(s) and duration)</li> <li>Section Editor, Kavaka (Journal of Mycological society of India) Joint Editor, Madhya Bharti</li> <li>(ii) Reviewer of the Journal(s) (With details of the journal(s) and duration)</li> </ul> </li> <li>Biotechnology for Biofuels, Food Biotechnology, International Jr. of Biological Macromolecules, Biotechnology Reports, Journal of Molecular Catalysis B: Enzymatic, Applied Microbiology and Biotechnology, Applied Biochemistry and Biotechnology, Indian Journal of Microbiology, Bioresource Technology, Letters in Applied Microbiology, Process Biochemistry, Biocatalysis and Biotransformation, African Journal of Microbiology Research, African journal of Biotechnology, Fungal Biology, Marine Biotechnology, Carbohydrate Polymers, 3 Biotech etc. (2014-2020)</li> </ul>	• L	ife Member, A	Association of Microbiologists (AMI) of India.
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- Member BOS,I Microbiology, Bundelkhand University, Jhansi Chairman, BOS, Microbiology, Dr. HSGVV, Sagar Member, Academic Council, Dr. HSGVV, Sagar •
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