




Faculty Details proforma for DU Web-site

Title	Prof.	First Name	Ramesh	Last Name	Kuhad	Photograph
Designation		Professor				
Address		Village and Post-Harshana Kalan Tehsil and District – Sonapat Haryana				
Phone No	Office	011-24112062				
Residence		Vice Chancellor Central University of Haryana Village-Jant Pali, Mahendergarh, Haryana-123029				
Mobile		09871509870				
Email		Kuhad85@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Bhopal University, Bhopal			1984	
M.Phil. / M.Tech.		Bhopal University, Bhopal			1981	
PG		Bhopal University, Bhopal			1980	
UG		Kurukshetra University, Kurukshetra			1977	
Career Profile						
Name of Institution		Post held		Period		
				From		
Central University of Haryana Village-Jant Pali, Mahendergarh		Vice Chancellor & Professor		16.04.2015		Till Date
Department of Microbiology, University of Delhi South Campus, New Delhi		Professor		4.3.2005		On leave till (15.04.2018)
Department of Biotechnology, Kurukshetra University, Kurukshetra		Professor		7.8.2003		3.3.2005
Department of Microbiology, University of Delhi South Campus, New Delhi		Reader		27.7.98		6.8.2003
Department of Microbiology, University of Delhi South Campus, New Delhi		Senior Lecturer		1.9.90		26.7.98

Department of Microbiology, University of Delhi South Campus, New Delhi	Lecturer	1.9.88	31.8.90
Department of Microbiology Bhopal University, Bhopal	Lecturer	17.7.85	31.8.88

Administrative Assignments

1.	Vice Chancellor	Central University of Haryana, Village-Jant Pali, Mahendergarh (16.04.2015-Till date)
2.	Joint Director	Institute of Life Long Learning (ILL) University of Delhi South Campus, New Delhi (18.04.2012 -16.04.2015)
3.	Dean	Faculty of Interdisciplinary and Applied Sciences, University of Delhi (17.10.06-16.10.08)
4.	Head	Department of Microbiology, University of Delhi South Campus, New Delhi (17.10.05-16.10.08)
5.	Chairman	Department of Biotechnology (7.8.03 – 3.3.05), Kurukshetra University, Kurukshetra
6.	O. S. D. as Principal	Deshbandhu college (E), University of Delhi, Kalka Ji, New Delhi (10.9.01 – 10.6.03)
7.	Warden	Saramati, P.G. Mens Hostel, University of Delhi South Campus (10.5.02 - 6.8.03)
8.	Warden	Aravali, P.G. Men's Hostel, University of Delhi South Campus (26.4.05 – 13.1.08)
9.	Provost	Saramati and Aravali P. G. Men's Hostel University of Delhi South Campus (14.1.08 – 16.04.2015)

Areas of Interest / Specialization

1. Lignocellulose bioconversion to ethanol and animal feed
2. Enzymatic bleaching of paper pulp
3. Enzymatic retting of plant fiber

Subjects Taught

Environmental Microbiology, Industrial and Food Microbiology

Research in the Area of Microbial Degradation of Lignocellulosics and use of lignocellulolytic microorganisms and their enzymes in pulp and paper industry, improvement of animal feed, fiber retting and organic synthesis.

Microbial degradation of Hydrocarbons

Research Guidance	
1. Supervision of awarded Doctoral Thesis	- 22
2. Supervision of Doctoral Thesis, under progress	- 3
3. Supervision of awarded M.Phil dissertations	- 5
Publications Profile	
<i>List against each head (If applicable) (as Illustrated with examples)</i>	
1. Books/Monographs (Authored/Edited)	- 4
<p>1. Lignocellulosic Biotechnology: Present and Future Prospect (Eds) Kuhad R C and Singh A, I. K. International, New Delhi 2007.</p> <p>2. Advances in soil bioremediation. Soil Biology Series Vol. 17 (Eds) Singh A, Kuhad R C and Ward O P. Springer, Verlag, Germany 2009.</p> <p>3. Bioaugmentation , Bostimulation and Biocontrol. Soil Biology Series (Eds) Singh A, Parmar, N. and Kuhad R C. Springer, Verlag, Germany. 2011</p> <p>4. Biotechnology for environmental management and resource recovery (Eds) Kuhad RC and Singh A. Springer, Verlag, Germany. 2013</p>	
2. Research papers published in Refereed/Peer Reviewed Journals	- 145
<p>145. Hemansi, Gupta, R., Kuhad, R.C., Saini, J.K. (2018) Cost effective production of complete cellulase system by newly isolated <i>Aspergillus niger</i> RCKH-3 for efficient enzymatic saccharification: Medium engineering by overall evaluation criteria approach (OEC). <i>Biochemical Engineering Journal</i>. doi.org/10.1016/j.bej.2018.01.019.</p> <p>144. Gupta, R., Hemansi, Gautam, S., Shukla, R., Kuhad, R.C. (2017) Study of charcoal detoxification of acid hydrolysate from corncob and its fermentation to xylitol. <i>Journal of Environmental Chemical Engineering</i>. 5: 4573–4582.</p> <p>143. Jain, K.K., Kumar, S., Deswal, D., Kuhad, R.C. (2017) Improved production of thermostable cellulase from <i>Thermoascus aurantiacus</i> RCKK by fermentation bioprocessing and its application in the hydrolysis of office waste paper, algal pulp, and biologically treated wheat straw. <i>Appl Biochem Biotechnol</i>. 181(2):784-800.</p> <p>142. Shukla, R., Kumar, M., Chakraborty, S., Gupta, R., Kumar, S., Sahoo, D., Kuhad, R.C. (2016) Process development for the production of bioethanol from waste algal biomass of <i>Gracilaria verrucosa</i>. <i>Bioresource Technology</i>. 220: 584–589.</p> <p>141. Pal, S., Joy, S., Kumbhar, P., Trimukhe, K.D., Gupta, R., Kuhad, R.C., Varma, A.J., Padmanabhan, S. (2016) Pilot-scale pretreatments of sugarcane bagasse with steam explosion and mineral acid, organic acid, and mixed acids: synergies, enzymatic hydrolysis efficiencies, and structure-morphology correlations. <i>Biomass Conv. Bioref</i>. 7:179–189.</p> <p>140. Kumar, S., Jain, K.K., Rani, S., Bhardwaj, K.N., Goel, M., Kuhad, R.C. (2016) In-Vitro refolding and characterization of recombinant Laccase (CotA) from <i>Bacillus pumilus</i> MK001 and its potential for phenolics degradation. <i>Mol Biotechnol</i>. 58:789–800.</p> <p>139. Dey, T.B., Chakraborty, S., Jain, K.K., Sharma, A., Kuhad, R.C. (2016) Antioxidant phenolics and their microbial production by submerged and solid state fermentation process: A review. <i>Trends in Food Science & Technology</i> 53: 60-74.</p> <p>138. Mkhize, T., Mthembu, LD., Gupta, R., Kaur, A., Kuhad, RC., Reddy, P., Deenadayalu N. (2016). Enzymatic saccharification of acid/alkali pre-treated, mill-run, and depithed sugarcane bagasse. <i>BioResources</i> 11(3): 6267-6285.</p> <p>137. Kuhad, RC., Deswal, D., Sharma, S., Bhattacharya, A., Jain, KK., Kaur, A., Pletschke, Bl., Singh, A., Karp, M. (2016) Revisiting cellulose production and redefining current strategies based on major challenges. <i>Renewable and Sustainable Energy Reviews</i>. 55: 249–272.</p> <p>136. Dey TB., Kumar A., Banerjee R., Chandna P., Kuhad RC. (2016). Improvement of microbial α-amylase stability: strategic approaches. <i>Process biochemistry</i>. 51: 1380–1390.</p>	

135. Chakraborty, S., Gupta, R., Jain, KK., Kuhad RC (2016). Cost-effective production of cellulose hydrolyzing enzymes from *Trichoderma sp. RCK65* under SSF and its evaluation in saccharification of cellulosic substrates. *Biosystem and Bioprocess Engineering*. 39(11):1659-70.
134. Kumar S., Jain, KK., Bhardwaj, KN., Chakraborty, S., Kuhad, RC. (2015). Multiple Genes in a Single Host : Cost-effective production of bacterial laccase (cot A) pectate lyase (pel) and xylanase (xyl) by simultaneous expression and cloning in single vector in *E. coli*. *Plos One* DOI:10.1371/journal.pone.0144379
133. Gupta, R., Mehta, G., Kuhad, RC. (2015) Scale-up of abatement of fermentation inhibitors from acid hydrolysates for efficient conversion to ethanol as biofuel. *Journal of Chemical Technology and Biotechnology*. DOI 10.1002/jctb.4775
132. Bhardwaj, KN., Jain, KK., Kumar, S., Kuhad, RC. (2015) Microbiological Analyses of Traditional Alcoholic Beverage (Chhang) and its Starter (*Balma*) Prepared by *Bhotiya* Tribe of Uttarakhand, India. *Indian Journal of Microbiology*. DOI 10.1007/s12088-015-0560-6
131. Sharma, A., Shrivastava, B., Kuhad, RC. (2015) Reduced toxicity of malachite green decolorized by laccase produced from *Ganoderma sp. Rckk-02* under solid-state fermentation. *3 Biotech*. DOI 10.1007/s13205-014-0258-1
130. Kumar, S., Jain, KK., Singh, A., Panda, AK., Kuhad, RC. (2015) Characterization of recombinant pectate lyase refolded from inclusion bodies generated in *E. coli* BL21(DE3). *Protein Expression and Purification*. 110:43-51
129. Jain, KK., Dey TB, Kumar S and Kuhad RC. (2015) Production of thermostable hydrolases (cellulase and xylanase) from *Thermoascus aurantiacus RCKK*: A potential fungus. *Biosystem and Bioprocess Engineering*. 38:787-796.
128. Dey, T.B., Kuhad, R.C. (2014) Enhanced production and extraction of phenolic compounds from wheat by solid-state fermentation with *Rhizopus oryzae RCK2012*. *Biotechnology Reports*. 4:120-127
127. Sharma, A., Shrivastava, B., Kuhad R.C. (2014). Reduced toxicity of decolorized malachite green by laccase produced from *Ganoderma sp. rckk02* under solid-state fermentation. *3Biotech*. Doi. 10.1007/s13205-014-0258/1
126. Chandna, P., Gupta, S., Rajam, M.V., Kuhad, R.C. (2014). Molecular identification and in vitro screening of antagonistic bacteria from agricultural byproduct compost: Effect of compost on development and photosynthetic efficiency of tomato plant. *Annals of Microbiology*. 64:571–580.
125. Dey, T.B., Kuhad, R.C. (2014) Upgrading the antioxidant potential of cereals by their fungal fermentation under solid-state cultivation conditions. *Letters in applied Microbiology*. 59:493-499
124. Antil, P., Gupta, R., Kuhad, R.C. (2014) Simultaneous saccharification and fermentation of pretreated sugarcane bagasse to ethanol using new thermotolerant yeast. *Annals of Microbiology*. DOI 10.1007/s13213-014-0875-2
123. Raghuvanshi, S., Deswal, D., Karp, M., Kuhad, R.C. (2014). Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum RCK2011* and its application in hydrolysis of cellulose. *Fuel*124: 183–189.
122. Sharma, A., Thakur, V.V., Shrivastava, A., Jain, R.K., Mathur, R.M., Gupta, R., Kuhad R.C. (2014) Xylanase and laccase based enzymatic kraft pulp bleaching reduces adsorbable organic halogen (AOX) in bleach effluents: A pilot scale study. *Bioresource Technology*. <http://dx.doi.org/10.1016/j.biortech.2014.06.066>
121. Shrivastava, B., Jain, K.K., Kalra, A., Kuhad R.C. (2014). Bioprocessing of wheat straw into nutritionally rich and digested cattle feed. *Scientific Reports*. doi:10.1038/srep06360

120. Sharma S, Sharma KK and Kuhad RC (2013). An efficient and economical method for extraction of DNA amenable to biotechnological manipulations, from diverse soils and sediments. *Journal of Applied Microbiology*. 116: 923-33.
119. Kumar S, Shrivastava N, Gupta BS, Kuhad RC and Gomes J. (2013). Lovastatin production by *Aspergillus terreus* using lignocellulose biomass in large scale packed bed reactor. *Food and Bioproducts Processing*.
Doi.org/10.1016/j.fbp.2013.10.007
118. Kidwai M, Jain A, Sharma A and Kuhad RC. (2013). Laccase catalyzed reaction between Meldrum's acid and catechols/hydroquinones- An investigation. *ComptesRendusChimie*16:728-735
117. Upadhyay, M., Shrivastava, B., Jain, A., Kidwai, M., Kumar, S., Gomes, J., Goswami, DG., Panda, A.K., Kuhad, RC., (2014) Production of ganoderic acid by *Ganoderma lucidum* RCKB-2010 and its therapeutic potential. *Annals of Microbiology*. 64: 839–846
116. Deswal, D., Gupta, R., Nandal, P., Kuhad RC. (2014) Fungal pretreatment improves amenability of lignocellulosic material for its saccharification to sugars. *Carbohydrate Polymers* 99:264-269.
115. Kumar, L., Kumar, D., Nagar, S., Gupta, R., Garg, R., Kuhad, RC., Gupta, VK. (2013). Modulation of xylanase production from alkaliphilic *Bacillus pumilus* VLK-1 through process optimization and temperature shift operation. *3 Biotech*. DOI 10.1007/s13205-013-0160-2
114. Chandna, P., Mayil R. Kuhad, RC. (2013). *Bacillus paraflexus* sp. nov., isolated from compost. *Int J SystEvolMicrobiol*. PMID:23990650
113. Varma A.J., Kuhad RC, Singh R, Gupta R, Adsul M, Gokhale D. (2013). Biodegradation of Styrene-Butadiene-Styrene Copolymer via sugars attached to the polymer chain. *Advances in Materials Physics and Chemistry*. 3: 112-118.
112. Nandal P, Ravella SR. Kuhad RC (2013). Laccase production by *Corioloopsis caperata* RCK2011: Optimization under solid state fermentation by Taguchi DOE methodology. *Scientific Reports*. 3:1386
111. Sharma KK, Shrivastava B, Sastry VRB, Sehgal N and Kuhad RC (2013). Middle redox potential laccase from *Ganoderma* sp: its application in improvement of feed from monogastric animals. *Scientific Reports*. 3:1299
110. Kumar S., Gupta R., Kumar G., Sahoo D. And Kuhad R.C. (2013). Bioethanol production from *Gracilaria verrucosa*, a red alga, in a biorefinery approach. *Bioresource Technology*. 135: 150–156
109. Chandna P., Mallik S. and Kuhad R. C. (2012). Assessment of bacterial diversity in agricultural by-product compost by sequencing of cultivated isolates and amplified rDNA restriction analysis. *Applied Microbiology and Biotechnology*. 97: 6991-7003.
108. Gupta R., Mehta G and Kuhad R.C. (2012). Fermentation of pentose and hexose sugars from corncob, a low cost feedstock into ethanol. *Biomass and Bioenergy*. 47:334-341.
107. Deswal D., Gupta R., and Kuhad R.C. (2012). Enhanced exoglucanase production by brown rot fungus *Fomitopsis* sp. RCK2010 and its application for cellulose saccharification. *Applied Biochemistry and Biotechnology*. 168:2004-2016.
106. Kidwai, M., Jain, A., Sharma, A. and Kuhad, R.C. (2012) Ecofriendly approach for detection of phenols in water using laccase from different fungi. *Water Science and Technology* 66:385-393.
105. Sharma KK, Sharma S, Karp M and Kuhad RC (2012). Lignolytic enzymes improve soil DNA purity: Solution to methodological challenges of soil metagenomics. *Journal of Molecular Catalysis B: Enzymatic*. 83: 73-79

104. Gupta R, Kumar S., Gomes J. and Kuhad R.C. (2012). Kinetic study of batch and fed-batch enzymatic saccharification of pretreated substrate and their subsequent fermentation to ethanol. *Biotechnology for Biofuels* 5:16
103. Singh S, Kumar P, Gopalan N, Shrivastava B., Kuhad RC and Chaudhary HS (2012). Isolation and partial characterization of actinomycetes with antimicrobial activity against multidrug resistant bacteria. *Asian Pacific Journal of Tropical Biomedicine*.2:1147-1150
102. Pundir C.S., Rawal R., Chawla S., Renuka, Kuhad R.C. (2012). Development of an amperometric polyphenol biosensor based on fungal laccase immobilized on nitrocellulose membrane. *Artificial Cells, Blood Substitutes, and Biotechnology*.40:163-70.
101. Kumar A., Gupta R., Shrivastava B., Khasa Y.P. and Kuhad R.C. (2012). Xylanase production from an alkalophilic actinomycete isolate *Streptomyces sp. RCK-2010*, its characterization and application in saccharification of second generation biomass. *Journal of Molecular Catalysis B.: Enzymatic*. 74:170-177.
100. Shrivastava B., Nandal P., Sharma A., Jain K.K., Khasa Y.P., Das T.K., Mani V., Kewalramani N.J., Kundu S.S. and Kuhad R.C. (2012) Solid state bioconversion of wheat straw into digestible and nutritive ruminant feed by *Ganoderma sp. rckk02*. *Bioresource Technology*. 107:347-351
99. Sharma K.K., Shrivastava B., Nandal P., Sehgal N., Sastry V.R.B., Kalra A. and Kuhad R.C. (2011). Nutritional and toxicological assessment of white-rot fermented animal feed. *Indian Journal of Microbiology*. 52:185-190.
98. Kidwai, M., Poddar, R., Diwanian S. and **Kuhad, R. C.** (2010). Laccase from basidiomycetous fungus catalyzed synthesis of substituted Benzopyranocoumarins via Domino reaction. *Synthetic Communications*
97. Nagar, S., Gupta, V.K., Kumar, D., Kumar, L. and **Kuhad, R.C.** (2010). Production and optimization of cellulase-free, alkali-stable xylanase by *Bacillus pumilus* SV-85S in submerged fermentation. *Journal of Industrial Microbiology and Biotechnology*. 37:71-83.
96. Diwanian, S., Kharb, D., Raghukumar C. and **Kuhad R.C.** (2010). Decolorization of synthetic dyes and textile effluents by basidiomycetous fungi. *Water, Air and Soil Pollution*. DOI 10.1007/s11270-009-0263-x (Available online).
95. **Kuhad, R.C.**, Chandna P., Lata and Singh A. (2010). Composting of lignocellulosic waste materials. In: Bioaugmentation, Biostimulation and Biocontrol. *Soil Biology Series* (Editors) Dr. Ajay Singh, Nagina Parmar and Dr. R. C. Kuhad. Springer Verlag, Germany (In Press).
94. Sanghi, A., Garg, N., Kuhar, K., **Kuhad, R.C.** and Gupta, V.K. (2009). Enhanced production of cellulase-free xylanase by alkalophilic *Bacillus subtilis* ASH and its application in Biobleaching of Kraft pulp. *Bioresources* 4:1109-1129.
93. Sharma, K.K., and **Kuhad R. C.** (2009). An evidence of laccase in Archaea. *Indian Journal of Microbiology*. 49:00-00.
92. Kidwai, M., Poddar, R., Diwanian S. and **Kuhad, R. C.** (2009). Laccase from basidiomycetous fungus catalyzed synthesis of substituted 5-deaza-10-oxaflavin via Domino reaction. *Advance Synthesis and Catalysis*. 351:589-595.
91. **Kuhad, R. C.** and Gupta, R. (2009). Biological remediation of Petroleum contaminants. In: Advances in Applied Bioremediation. *Soil Biology Series* Vol. 17. (Editors) Dr. Ajay Singh, Dr. Ramesh C. Kuhad and Dr. O. P. Ward. Springer Verlag, Germany.
90. Singh, A., **Kuhad R. C.** and Ward, O. P (2009). Biological remediation of soil – An overview of global Market and available technologies. In: *Advances in Applied Bioremediation Soil Biology Series* Vol. 17. (Editors) Dr. Ajay Singh, Dr. Ramesh C. Kuhad and Dr. O. P. Ward. Springer Verlag, Germany.
89. Gupta, R., Sharma, K. K. and **Kuhad, R. C.** (2009). Separate hydrolysis and fermentation (SHF) of *Prosopis juliflora*, a woody substrate, for the production of cellulosic ethanol by *Saccharomyces cerevisiae* and *Pichia stipitis*-NCIM 3498.

Bioresource Technology. 100(3):1214-20.

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87. Kuhar, S., Nair, L. M. and **Kuhad, R. C.** (2008). Pretreatment of lignocellulosic material with fungi capable of higher lignin degradation and lower carbohydrate degradation improves substrate acid hydrolysis and the eventual conversion to ethanol. *Canadian Journal of Microbiology*. 54:305-13.

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84. Kapoor, M., Nair L. M., and **Kuhad R. C.** (2008) Cost-effective xylanase production from free and immobilized *Bacillus pumilus* strain MK001 and its application in saccharification of *Prosopis juliflora*. *Biochemical Engineering Journal*. 38(1): 88-97.

83. Ninawe, S., Kapoor, M. and **Kuhad, R.C.** (2008). Purification and Characterization of extracellular xylanase from *Streptomyces cyaneus* SN32. *Bioresource Technology*. 99:1252-1258.

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75. Gupta, S., Kapoor, M., Sharma, K. K. and **Kuhad, R. C.** (2007). Production and recovery of an alkaline exo-polygalacturonase from *Bacillus subtilis* RCK under solid-state fermentation using statistical approach. *Bioresource Technology*. 99:937-945.

74. Khurana, S., Kapoor, M., Gupta, S., and **Kuhad, R. C.** (2007). Statistical optimization of alkaline xylanase production from *Streptomyces violaceoruber* under submerged fermentation using response surface methodology. *Indian Journal of Microbiology*. 47(2): 144-152.

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- 72 Ninawe, S., Lal R. and **Kuhad, R. C.** (2006). Isolation of three xylanase producing strains of actinomycetes and their identification using molecular methods. *Current Microbiology*. 53(3): 78-182.
- 71 Battan, B, Sharma, J, and **Kuhad, R. C.** (2006). High level xylanase production by alkaliphilic *Bacillus pumilus* ASH under solid state fermentation. *World Journal of Microbiology and Biotechnology*. 22: 1281-1287.
- 70 **Kuhad, R. C.**, Chopra P, Battan B, Kapoor M and Kuhar S. (2006) Production and partial purification and characterization of a thermo-alkali stable xylanase from *Bacillus* sp. RPP-1 *Indian Journal of Microbiology*. 46 (1): 13-23
69. **Kuhad, R. C.**, Kapoor M, and Chaudhary K (2006) Production of xylanase from *Streptomyces* sp. M-83 using cost-effective substrates and its application in improving digestibility of monogastric animal feed. *Indian Journal of Microbiology*. 46 (2): 109-119.
68. Sharma, K. K., Gupta S. and **Kuhad R. C.** (2006) *Agrobacterium*-mediated delivery of marker genes to *Phanerochaete chrysosporium* mycelial pellets: a model transformation system for white-rot fungi. *Biotechnology and Applied Biochemistry* 49:181-186
- 67 Ninawe, S. and **Kuhad, R. C.** (2005). Bleaching of wheat straw using xylanase from thermoalkophilic *Streptomyces cyaneus* SN32. *Bioresource Technology*. 97(18): 2291-2295.
- 65 Ninawe, S. and **Kuhad, R. C.** (2005). Use of xylan rich cost effective agroresidues in the production of xylanase by *Streptomyces cyaneus* SN32. *Journal of Applied Microbiology*. 99: 1141-1148.
- 64 **Kuhad, R. C.**, Sood, N., Tripathi, K. K., Singh, A., Ward, O. P. (2004). Developments in microbial methods for the treatment of dye effluents. *Advances in applied microbiology*. 50: 185-213.
- 63 Sharma K. K., Kapoor, M., and **Kuhad R. C.** (2005). *In-vivo* enzymatic digestion (IVED), *In-vitro* xylanase digestion (IVXD), metabolic analogues, surfactants and polyethylene glycol ameliorate laccase production from *Ganoderma* sp. kk-02. *Letters in Applied Microbiology* . 41: 24-31.
- 62 Vasdev, K., Dhawan, S., Kapoor, K. R. and **Kuhad, R. C.** (2005). Biochemical characterization and molecular evidence of a laccase from the birds nest fungus *Cyathus bulleri*. *Fungal Genetics Biology* 42: 684-693.
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- 59 Singh, A., Ward, O. P. and **Kuhad, R. C.** (2005). Feasibility studies for microbial remediation of hydrocarbons. In: *Methods for monitoring and assessing soil bioremediation*. Eds. Margesin, R. & Schinner, F. Springer-Verlag, Germany.
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9. **Kuhad, R. C.**, Rosin, I. V. and Moore, D. (1987). A possible relation between cyclic-AMP levels and glycogen mobilization in *Coprinus cinereus*. Transactions of the British *Mycological Society* (Now known as *Mycological Research*). 88(2): 229-236.
8. Rohatagi, K., **Kuhad, R. C.** and Johri, B. N. (1986). Enrichment of ash and silica in paddy straw by *Cyathus*, *Pleurotus* and *Sporotrichum*. ***Journal of Microbial Biotechnology***. Vol. 1:91-96.
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6. **Kuhad, R. C.** and Belsare, D. K. (1985). Incidence of Nematodes in Air. ***Pollution Research***. 4(1): 45-56.
5. **Kuhad, R. C.** (1984): Lignocellulolytic enzymes of Bird's Nest Fungi. ***Indian Journal of Microbiology***. 24(2): 137.
4. **Kuhad, R. C.** and Johri, B. N. (1984). Production of *Cyathus stercoreus* fruit bodies in cultures. ***Indian Journal of Microbiology***. 24(1): 45-56
3. **Kuhad, R. C.** (1984). Preliminary observations on the decomposition of Paddy straw by species of white-rot fungus *Cyathus*. ***Journal of Scientific Research***. 6(2): 81-84.
2. **Kuhad, R. C.** (1983). Isolation of Mycoflora of Rice Straw. ***Journal of Scientific Research***. 5(3): 189-190.
1. **Kuhad, R. C.** and Johri, B. N. (1983). Fermentative degradation of plant wastes by white-rot fungus *Cyathus* and it's ability to release cellulase enzyme. ***Journal of Microbial Biotechnology***. 1(1): 81-84.
3.
 - a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals
 - b) Research papers published in Refereed/Peer Reviewed Conferences
 - c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences

1. *Organization of a Conference*

1. *Patron in all conferences held in Central University of University Haryana (From April 2015-Till date)*
2. **Joint Director, Institute of Life Long Learning (ILLL)**, University of Delhi South Campus, heading a team of Fellows working for e-content development for under-graduate courses in Science subjects (April 2012 till April 2015).

2. *Participation as Paper/Poster Presenter*

1. **Microorganisms as our friends in conserving the environment: A way to wild life management. Presented in Seminar on research trends in wild life conservation, October 5-7, 1983, Bhopal. 31p.**
2. **Bioconversion of Lignocellulosic wastes: A renewable source of energy. Presented in Silver Jubilee Symposium of International Society for Tropical Ecology, October 5-10, 1981, Bhopal**
3. **Decomposition of Plant wastes by species of Bird's Nest fungus *Cyathus*. XIV International Congress Microbiology. September 7-13, 1986. Manchester, England. Abs. G4 15.**
4. **Fermentative decomposition of paddy straw, studied by light and scanning electron microscopy. XIV International Congress of Microbiology, September 7-13, 1986, Manchester, England Abs. G4 16.**
5. **Lignocellulose and its Biodegradation. National Symposium on New Frontiers in Microbial Technology. February 15-17, 1987. Bhopal, India. 91-92p. Abs.**
6. **Accumulation and mobilisation of Glycogen in basidiomycetous Fungus *Coprinus*. 29th Annual Conference of Association of Microbiologists of India. February 9-11, 1989, H.A.U. Hissar, India, Abs. G.M. 42: 135p.**
7. **Degradation of crop wastes by Bird's nest Fungus *Cyathus*. 29th Annual Conference of AMI February 9-11, 1998. H.A.U. Hissar, India, Abs. 1989 GM 43: 135-136p.**
8. **Evaluation of Alkaline Pre-treatment for Degradation of Rice Crop waste by *Penicillium citrinum*. ICGEB Colloquium "Lignin Biodegradation and Practical Utilization" June 27-30, 1990 at International Centre for Genetic Engineering and Biotechnology, Padriciano, Trieste, Italy.**
9. **Biodegradation of Agrowastes by *Cyathus helenae*. ICGEB Colloquim "Lignin Biodegradation and Practical Utilization" June 27-30, 1990 at International Centre for Genetic Engineering and Biotechnology, Padriciano, Trieste, Italy.**
10. **Utilization of Inorganic phosphates by Basidiomycetes fungus *Cyathus*. Fourth International Mycological Congress. 28th Aug.-3rd September, 1990. Regensburg, Germany (F.R.G.) Abs. 11E-225/September 2-3, 1990. Regensburg, Germany (F.R.G.) Abs 11E-225/2.**
11. **Cellulose and xylan degrading enzymes of four species of Bird's Nest fungus *Cyathus*. 32nd Annual Conference of AMI. January 10-12, 1992, M.K.U. Madurai, India.**
12. **Production of Lignolytic enzymes by *Cyathus* spp. 32nd Annual Conference of Association of Microbiologists of India. January 10-12, 1992. M.K.U. Madurai, India**
13. **Degrading Crop Byproducts of *Cyathus stercoreus*. 33rd Annual Conference of Association of Microbiologists of India. November 5-7, 1992. Department of Microbiology, Goa University, Goa, India.**
14. **Induction of Endoglucanase, cellobiase and xylanase. In *Cyathus*spp. 33rd Annual Conference of Association of Microbiologists of India. November 5-7, 1992. Department of Microbiology, Goa University, Goa, India.**
15. **Regulation of Laccase Production in *Cyathus bulleri*. 33rd Annual Conference of Association of Microbiologists of India. November 5-7, 1992. Department of Microbiology, Goa University, Goa, India.**
16. **Laccase Production under static and shake culture conditions by *Cyathus bulleri*. 34th Annual Conference of AMI. February 9-11, 1994. P.A.U. Ludhiana, India.**

17. Production of Ethanol from Pentoses by *Candida shehatae*. 34th Annual Conference of AMI. February 9-11, 1994. P.A.U. Ludhiana, India
18. Cellulose Degradation and Cellulolytic system of *Cyathus stercoreus*. MICON International and 35th Annual Conference of AMI. November 9-12, 1994. D.F.R.I. Mysore, India.
19. Degradation of Environmental Pollutants by *Cyathus bulleri* MICON International and 35th Annual Conference of AMI. November 9-12, 1994, D.F.R.I.; Mysore, India.
20. Influence of Polyamines and their Biosynthesis Inhibitors on Growth, Intracellular polyamine levels and ligninolytic enzymes of *Cyathus bulleri*. 36th Annual Conference of AMI. November 8-10, 1995, Hisar, India.
21. An Enzymatic and Fermentative study of Lignin degradation. 36th Annual Conference of AMI. November 8-10, 1995, Hisar, India
22. Proteases from a wood-rotting fungus –Do they modify and/or activate cellulolytic and ligninolytic enzymes? 36th Annual Conference of AMI. November 8-10, 1995, Hisar, India.
23. Use of Microbial xylanases as an Ecofriendly Alternative in the pulp and paper industry. National Symposium on Microbial Technologies for Environmental Management and Resources Recovery. October 1-2, 1997, New Delhi.
24. Degradation of the Insecticide Lindane by *Cyathus bulleri*. National Symposium on Microbial Technologies for Environmental Management and Resources Recovery. October 1-2, 1997, New Delhi.
25. Biodegradation and Bioremediation of Lindane by *Phanerochaete sordida*. 38th Annual Conference of AMI and Conference on Microbes in Sustainable Development. December 12-14, 1997, New Delhi, India.
26. Bacterial Estimation of Sewage Effluents in Delhi and Correlation studies between Indicator Parameters and Pathogens. 38th Annual Conference of Association of Microbiologists of India and Conference of Microbes in Sustainable Development. December 12-14. 1997. New Delhi, India.
27. Field Study: In Situ Bioremediation of Oily sludge contaminated land using "Oilzapper". Mid- Atlantic Conference on Industrial and "Hazardous Waste" to be held at University of Connecticut, June 20-23, 1999.
28. Oilzapper: A Bacterial consortium for in situ biodegradation of oily sludge. 40th Annual Conference of Association of Microbiologists of India, January 22-24, 2000. Bhubaneswar, Orissa. Abs. p. 104.
29. Arbuscular Mycorrhizae in Estuarine Habitats of Great Nicobar. Microbiotech 2000: 41st Annual Conference of Association of Microbiologists of India, November 25-27, 2000. Jaipur, Rajasthan. Abs. P.53.
30. Production of an Alkaline xylanase from an Alkalophilic fungus *Aspergillus nidulans* KKS-1999 and its potential in Bleaching of Kraft pulp. MICROBIOTECH-2000. 41st Annual Conference of Association of Microbiologists of India, November 25-27, 2000. Jaipur, Rajasthan, Abs. P.83.
31. Agrobacterium-mediated delivery of marker genes to *Phanerochaete chrysosporium* mycelial pellets, A model transformation system for white-rot fungi. 46th Annual Conference of Associational of Microbiologists of India - 2005, Hyderabad, December 8-10, 2005.
32. Detoxification of sugarcane Bagasse Hydrolysate for improving ethanol production by *Candida shehatae* (NCL-3501) 46th Annual Conference of Associational of Microbiologists of India -2005, Hyderabad December 8-10, 2005.
33. Enhanced xylanase production from *Bacillus Pumilus* strain MK001 using invitro Laccase digested cost effective substrate. 46th Annual Conference of Associational of Microbiologists of India -2005, Hyderabad December 8-10, 2005.
34. Cellulase production under solid-state fermentation (SSF) by a novel basidiomycetous fungus WW2. 48th Annual Conference of Associational of Microbiologists of India -2007, Chennai, December 18-21, 2007.
35. Evaluation of nutritional requirements for improving laccase production by newly isolated fungus RCK-3 using response surface methodology (RSM). 48th Annual Conference of Associational of Microbiologists of India -2007, Chennai, December 18-21, 2007.

36. Microbial decolorization of synthetic dyes and textiles effluents. 48th Annual Conference of Associational of Microbiologists of India -2007, Chennai, December 18-21, 2007.
37. Presented a paper in an Indo-Danish workshop held at Hyderabad Central University, organized by Department of Biotechnology, Ministry of Science and Technology, New Delhi, India; entitled "Recombinant DNA technology for improving lignin degradation vis-à-vis animal feed upgradation" 2007.
38. Presented a paper in a national workshop at IVRI, Izatnagar, entitled "Recombinant-DNA technology in animal feed development". 2008.
39. One step purification and characterization of xylanase produced by *B. subtilis* ASH. 49th Annual Conference of Associational of Microbiologists of India -2008, Delhi. December 18-20, 2008.
40. Optimization of xylanase production by *Bacillus subtilis* ASH in Submerged fermentation using RSM. 49th Annual Conference of Associational of Microbiologists of India -2008, Delhi. December 18-20, 2008, Delhi.
41. Solid-State fermentation for bioconversion of wheat straw into upgraded animal feed. 50th Annual Conference of Associational of Microbiologists of India -2008, Delhi. December 18-20, 2008, Delhi.
42. Xylanase and Laccase production under solid-state fermentation conditions an their application in Bio-bleaching of kraft pulp. 50th Annual Conference of Associational of Microbiologists of India -2008, Delhi. December 18-20, 2008, Delhi.
43. Fungal delignification of lignocellulosics biomass improves the saccharification of cellulosics. 50th Annual Conference of Associational of Microbiologists of India -2008, Delhi. December 18-20, 2008, Delhi.
44. Production of Cellulosic ethanol from sugarcane bagasse. International conference on Climate change. November 11-13, 2009 Gwalior.
45. Bioconversion of wheatstraw into value added cattle feed by RCK-1fungal isolate. Biomicroworld. December 1-4, 2009 Lisbon, Portugal.
46. *Agrobacterium* mediated genetic transformation of industrially improtant Basidiomycete fungi. Biomicroworld. December 1-4, 2009 Lisbon, Portugal.
47. Wheat straw degradation and production of lignocellulosic enzymes by white rot fungi. 4th Congress of European Microbiologists June 26-30, 2011 Geneva, Switzerland
48. Optimization of fungal inoculum and laccase production by white rot fungus. 52nd Annual Conference of Associational of Microbiologists of India -2011, Panjab University, Chandigarh. November 3-6, 2011,
49. Improvement of antioxidant potential of cereals by solid state fermentation. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
50. Production of fermentable hemicellulosic sugar from water Hyacinth using acid hydrolysis. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
51. Production, partial purification and application of cellulose from brown-rot fungus *Fomitopsis SP.* RCK2010. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
52. High throughput screening of metagenomic libraries for isolation of novel catabolic genes via SIGEX. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
53. Isolation and selection of thermotolerant ethanol producing microbes and its application in simultaneous saccharification and fermentation (SSF) of steam exploded rice straw. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
54. Kinetic analysis of batch and fed batch enzymatic saccharification of pretreated substrate and their subsequent fermentation to ethanol. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,

55. Scale up of xylanase production under SMF and SSf conditions and its application in biobleaching of kraft pulp. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
56. Thermostable cellulose and xylanase production from a newly isolated ascomycete fungus *Thermoascus aurantiacus* RCK 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011
57. Molecular identification of yeast associated with *BALMA*, a starter used in production of traditional alcoholic beverages by *BHOTIYA* tribe of Uttarakhand Himalaya India. 52nd Annual Conference of Associational of Microbiologists of India -2011, Punjab University, Chandigarh. November 3-6, 2011,
58. Enhancement of antioxidant properties of cereals and wheat bran by their solid state fermentation. 53rd Annual Conference of Associational of Microbiologists of India -2012. Nov 22-25 2012.
59. Optimization of pectinase production from *Bacillus subtilis* RCK under submerged fermentation conditions. 53rd Annual Conference of Associational of Microbiologists of India -2012. KIIT University, Bhubaneswar, Odisha Nov 22-25 2012.
60. Cloning and expression of fungal thermostable endoglucanase from *Thermoascus aurantiacus* RCKK. 53rd Annual Conference of Associational of Microbiologists of India -2012. KIIT University, Bhubaneswar, Odisha Nov 22-25 2012.
61. Cloning and Hyper-expression of Alkaline pectate lyase from *Bacillus subtilis*. 53rd Annual Conference of Associational of Microbiologists of India -2012. KIIT University, Bhubaneswar, Odisha Nov 22-25 2012.
62. Ganodermic acid, the most therapeutic potential biomolecules from a white rot fungus. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
63. Optimization of inoculum development and lignocellulolytic enzyme profile of *Pleurotus Sajor-Caju* under submerged and solid state fermentation. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
64. Enhanced extraction of phenolic compounds in wheat by solid state fermentation with *Rhizopus oryzae* RCK2012. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
65. Biotech feed development: A journey from bench to pilot scale. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
66. Hyper expression of alkaline recombinant pectate lyase from *Bacillus subtilis* RCK. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
67. A remarkably improved cellulose production from *Trichoderma* SP. RCKC65 grown under solid state fermentation conditions. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
68. Enzyme aided Saccharification of acid_alkali pretreated rice straw and its fermentation to ethanol. 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
69. Substrate holds the key for production of cellulases by *Trichoderma* Sp RCKC65 under submerged fermentation (SMF). 54th Annual Conference of Associational of Microbiologists of India- 2013. Maharshi Dayanand University Rohtak, Nov 17-20,2013
70. A novel strategy to combat fuel demand fuel demand by using Ligno-cellulosic biomass. 57th Annual Conference of Associational of Microbiologists of India- 2016. Gauhati University, Assam. Nov 24-27, 2016.

Research Projects (Major Grants/Research Collaboration)		
S. No.	Title of the Project	Funding Agency
1.	The hydrolysis of hemicellulose by species of white-rot fungus <i>Cyathus</i> .	UGC (Completed)
2.	The solar pasteurization of plant residues followed by fungal fermentation of produce protein rich animal feed.	DST (completed)
3.	Bacteria as source of Nutrition for zooplankton, and the role of bacterivorous zooplankton in reducing microbial load in wastewater: An experimental evaluation.	MEF (Completed)
4.	Cellulases Free Thermotolerant and Alkalostable Xylanases for Pulp and Paper Industry.	DBT (Completed)
5.	Cloning and Characterization of Ligninase/Laccase Gene(s) from white-rot fungus.	DBT (Completed)
6.	Marine Fungi as a source of laccase and xylanase enzymes for Biotechnological applications	DBT (Completed)
7.	Heterotrophic Chemo-organotropic and aerobic Gram positive Bacteria	MEF (Long Term) (Completed)
8.	Bioconversion of Lignocellulosics feedstock into ethanol as biofuel	DBT (Completed)
9.	Decolorization of dye waste waters using laccase over-producing marine and terrestrial fungi	DBT (Completed)
10.	Microbial production of biotech feed by solid state fermentation and recombinant DNA technology in collaboration with Ayurvvet Pvt. Ltd. Delhi	DBT (Completed)
11.	Bioconversion of cellulosics into sugars and ethanol	CSIR (NIMTLI) (Completed)
12.	Production of bioethanol from lignocellulosic biomass	DBT (Completed)
13.	Evaluation of xylanase and laccase at pilot and mill scale in pulp and paper industry in collaboration with Jay biozyme Technologies, Pune.	DBT (Completed)
14.	Preparation and screening of DNA library from wood decaying soil and termite mounts for novel lignocellulolytic enzymes	DBT (Completed)
15.	Process development and application of pectinase for retting of plant fibres in collaboration with Jay biozyme Technologies, Pune.	Under SBIRI DBT (Completed)
16.	Development of pretreatment strategies and bioprocess for improved production of cellulolytic enzymes and ethanol from crop byproduct for demonstration at pilot plant	MNRE (Completed)
17.	Optimization of cellulase production from <i>Thermoascus aurantacus</i> RCK 2011, a thermophilic fungus and its application in cellulose hydrolysis	UGC (Completed)
18.	Production on courseware e-content Development for Post-Graduate Subject 'Microbiology' (e-PG Pathshala)	UGC (Completed)
19.	Development of seaweeds biorefinery and pilot demonstration of bioethanol production	DBT (Completed)
20.	DBT Virtual Enzyme Centre-Development of enzyme formulations for treatment of ligno-cellulosic biomass	DBT (Completed)

Awards and Distinctions

a) Fellow Of Academic Bodies

Fellow of Biotech Research Society of India (**FBRs**)

Fellow of National Academy of Agricultural Sciences (**FNAAS**)

Fellow of National Academy of Sciences (**FNAS**)

b) Awards

AMI- Prof. G.S. Rangasamy Award by Association of Microbiologists of India (2017)

AMI- Dr. G.B. Manjrekar Award by Association of Microbiologists of India (2014)

AMI- Platinum Jubilee Life Time Achievement Award by Association of Microbiologists of India (2013)

AMI - Titan Biotech Award by Association of Microbiologists of India (2011).

Felicitation by Association of Microbiologists of India (AMI) during 48th Annual Conference of AMI at Chennai (Dec 17th – 20th, 2007), for services of AMI as General Secretary (2005-2007).

Short Term Biotechnology Overseas Research Associateship Award (2002-03) Department of Biotechnology, Ministry of Science and Technology, (Govt. of India).

Felicitation by Association of Microbiologists of India (AMI) during 42nd Annual Conference of AMI at Gulbarga (November 9th-11th, 2001 for my services to AMI as Treasurer (1998-2001).

AMI- Alembic Award by Association of Microbiologists of India (1991).

Felicitation by Association of Microbiologists of India (AMI) during 38th Annual Conference of AMI at New Delhi (December 13, 1997) for my services to AMI as Treasurer (1993-94).

Biotechnology Long Term Overseas Research Associateship Award (1995-96). Department of Biotechnology, Ministry of Science and Technology, (Govt. of India).

UNIDO/ICGEB Fellowship (1994). For Short Term Research Training at the University of Santiago, Santiago, Chile.

Certificate of Appreciation and Trophy awarded by plant science colloquium, H.A.U. Hisar, (1987) for the research project being adjudged as one of the best projects submitted in the Regional contest "Innovative ideas in Plant Research".

Facilitation award (1988) by Madhya Pradesh Shikshak Congress.

Commonwealth Scholarship for Post Doctoral Research (1985-1986) Government of United Kingdom, at the University of Manchester, United Kingdom (1985-86).

Senior Research Fellowship from C.S.I.R., New Delhi (August, 1983 to July 16th, 1985).

Junior Research Fellowship from C.S.I.R., New Delhi (January, 1981 to July, 1983).

First Rank in Merit in M.Sc. in Life Science Faculty (1980).

Fourth Rank in Merit in M.Phil in Life Sciences Faculty (1981).

Merit certificate for being standing- IInd in aggregated in B.Sc. IInd year Examination (1976) in College.

Merit certificate for being standing First in Botany in B.Sc. IIIrd year in College (University Exam.) (1977).

National Scholarship Award (Govt. of India) during Graduation.

Merit Scholarship Award (Board of School Education, Haryana, Chandigarh, India)

Association With Professional Bodies

Chairman, Committee for the dissemination of CEC Digital Educational Content through Universities & Educational Institutions Online & Offline, Consortium for Educational Communication (CEC) (2017)

Member, Departmental Promotion Committee for the post of Under Secretary. (2016 onwards)

Member, Establishment Committee of the NCERT (2016-2019)

UGC Nominee, Planning and Monitoring Board of the Graphic Era University (2016 onwards)

Chairman, Expert Committee to Rai Technological University, Bangalore (2016 onwards)

Commission Member, University Grants Commission (2016-2019)

UGC Nominee, Local Programme Planning and Management Committee (LPPMC), UGC-Human Resource Development Centre, Gauhati University, Guwahati, Assam (2016-2018)

Member, General Council, National Council of Educational Research and Training (NCERT), New Delhi (2016-2019)

Member, Planning Board, Hemchandracharya North Gujarat University, Patan (2016-2019)

Member, Academic Council, Cochin University of Science and Technology, Kochi. (2015 onwards)

Member, Executive Committee, National Accreditation and Assessment Council (NAAC), New Delhi (2015 onwards)

Member, Academic Audit Committee, Guru Jambheshwar University of Science and Technology (2013 onwards)

Member, Academic Audit Committee, Kurukshetra University, Kurukshetra (2013 onwards)

Member, Governing Council, Inter-University Accelerator Centre, New Delhi (2013-2015)

Chairman, Central Pool Grievance Committee, University of Delhi, Delhi (2011-2015)

Founder Chairman, Indian Academy of Microbiological Sciences (2014-2016)

Member, Planning and Monitoring Board, National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Sonapat, Haryana (2013-2014)

Chairman, Subcommittee of the standing committee for the task of production of courseware e-content for post graduate subjects by University Grant Commission, New Delhi (2013-2014)

Member Advisory Committee, Centre with Potential for Excellence in Particular Area, University of Mysore, Mysore (2013)

Member Establishment Committee, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, (2012-2013)

Member Executive Council, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana, (2011-2013).

President, Association of Microbiologists of India (2011)

Member, Research Degree Committee, Meerut University /university, Meerut (2009-2011)

President-Elect, Association of Microbiologists of India (2009-2010)

Member, Establishment Committee, G.J. University of Science and Technology, Hisar, Haryana (2009-2010)

Member, P.G. Board of Studies in Microbiology and Biotechnology, M.D. University, Rohtak (2009-2010)

Member, Board of studies in Biotechnology, Himachal Pradesh University, Shimla (2008-2010)

Member Academic Council, Deenbandhu Sir Chhotu Ram Science and Technology, Murthal, Sonipat, Haryana (2008-2010).

General Secretary, Association of Microbiologists of India (2005-2010).

Member, Executive Council, G.J. University of Science and Technology, Hisar, Haryana (1999-2010).

Guest-Editor- Special Issue of Biodegradation (2010), an International Journal

Convenor – UGC's Research Proposal Evaluation committee Southern Region (2010)

Member-DBT-Animal Biotechnology TASK FORSE (Ministry of Science and Technology)

Reviewer for research papers for International journals; Process Biochemistry, Bioresource Technology, International Journal Biodegradation and Biodeterioration, Brazilian Journal of Microbiology, Enzyme and Microbial Technology, Life Science Engineering, Applied Biochemistry and Biotechnology, Journal of Applied Microbiology, FEMS Microbiology Letters, Journal of Applied Microbiology.

Expert Member, Steering Committee for the Center of Excellence Programme of the Ministry of Environment and Forest, Govt. of India at CEMDE, DU.

Member Academic Council, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana (2008-2010).

Member Establishment Committee, Guru Jambheshwar University of Science and Technology, Hisar, Haryana (2000-2003; 2007-2010).

Member Governing Body, Shaheed Bhaghat Singh college, University of Delhi (2007-2008).

Dean, Faculty of Interdisciplinary and Applied sciences, University of Delhi south Campus, New Delhi (2006-2008)

Member Standing Committee, University of Delhi (2006-2008)

Member Academic Council, JNU, New Delhi (2006-2008)

Chairman Course committee on Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus, New Delhi (2006-2008).

Member Secretary, Institutional Biosafety Committee, University of Delhi South Campus, New Delhi (2006-2008)

Member Academic Council, University of Delhi, Delhi (2005-2008)

Chairman, Research Degree Committee, Department of Microbiology, University of Delhi south Campus, New Delhi (2005-2008).

Member Governing Body, P.G.D.A.V college, University of Delhi (2006-2007)

Member Academic Council, KU, Kurukshetra (2005-2007)

Member Governing Body, Sri Aurobindo college, University of Delhi (2005-2006)

Member, Board of studies in Biotechnology, Devi Lal University, Sirsa (2004-2006)

Member Executive Committee of Goyal award, Kurukshetra University (2004-2005).

Chairman, U.G. and PG Board of Studies in Biotechnology, Kurukshetra University, Kurukshetra (2003-2005).

Convenor, Adhoc Board of Studies in Biotechnology and Applied Sciences, Kurukshetra University, Kurukshetra (2003-2005)

Convenor, Adhoc Board of Studies in Chemical/Mechanical/civil engineering, Kurukshetra University, Kurukshetra (2003-2005)

Life Member, Association of Microbiologists of India

Treasure, Association of Microbiologists of India (1992-1994, 1999-2001 and 2002-2005).

Member, Board of Research Studies, Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus (2001-2003, 2005 onwards).

Member, Executive Council, G.J. University (Technical University) Hisar, Haryana (1999-2002)

Member Court, Guru Jambheshwar University of Science and Technology, Hisar, Haryana (1999-2002).

Member Establishment Committee, G.J. University (Technical University) Hisar, Haryana (1999-2002)

Member Representative of PTA, Management Committee, DPS Maruti Kunj (1998-2002).

Vice-president, Parents Teacher Association, DPS, Maruti Kunj (1997-2002).

Member, Examination disciplinary Committee, University of Delhi South Campus (1999-2001).

Member, Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus (1998-2001).

Coordinator, Visiting Team for smooth conduct of Examinations, University of Delhi South Campus (1998-2001).

Member, Editorial Board, Indian Journal of Microbiology (1991-93).

Member, Editorial Board of 'MICROBIOLOGY TODAY' (1990-92).

Member, Departmental Research Council, Department of Microbiology, University of Delhi South Campus (1988- continue).

Member, Committee of Courses in Microbiology, University of Delhi South Campus (1988-continue).

Teacher Member, Board of Studies, Microbiology, Bhopal University, Bhopal, (1986-88).

Student Member, Board of Studies in Biosciences, Bhopal University, Bhopal (1980-81).

Other Activities

Training courses

1. Inorganic Biochemistry Summer Workshop- 1995 at the University of Georgia, Athens, U.S.A. July 29- August 9, 1995.
2. Refresher Course on "Software Applications on Personal Computer" offered by Computer Centre, University of Delhi South Campus and sponsored by CPDHE, University of Delhi, December 23, 1992- 15 January, 1993.
3. Short term course on "Analysis And Design Of Novel Bioreactors" arranged by Biotechnology Division, Department of Chemical Engineering I.I.T. Kharagpur, sponsored by Department of Biotechnology (Govt. of India), New Delhi, May, 10-24, 1989.
4. Winter School on "Modern analytical and biochemical Engineering Methods for Engineers and Scientists" arranged by Department of Chemical Engineering, Andhra University, Visakhapatnam, sponsored by Department of Biotechnology (Govt. of India), New Delhi, December 28, 1988 to January 10, 1989.
5. Short term course in Fortran- arranged by Department of Computer Science and Application, Bhopal University, Bhopal and sponsored by Madhya Pradesh Council of Science and Technology, Bhopal, 25 March to 19 April, 1985.
6. Environment Science Training Course, arranged by youth and Biophere and Department of Environment, Government of Madhya Pradesh (India), June 5-11, 1981 and June 5-11, 1982.
7. Instrumentation and Statistical Course arranged by Bhopal University, January, 1981.