

CURRICULUM VITAE

Name : **Dr. Ramesh Chander Kuhad**

Father's Name : Late Shri Bhiem Singh

Date of Birth : 07-08-1955

Designation : **Professor,**
Department of Microbiology
University of Delhi South Campus
New Delhi-1100021

Permanent Address : Village and Post-Harshana Kalan
Tehsil and District – Sonapat
Haryana

Postal Address : **Department of Microbiology**
University of Delhi South Campus
New Delhi-1100021,
9871509870 (M), 24112062 (R)

Marital Status : Married with 2 children

Teaching Specialization : Environmental and Industrial Microbial
Biotechnology

Research Specialization : Plant Residue Biotechnology
1. Bioethanol Biotechnology
2. Animal Feed Biotechnology
3. Pulp and Paper Biotechnology

Academic Qualifications:

MSc, M Phil. and PhD (Microbiology)

Academic/Administrative positions held:

1.	Dean,	Faculty of Interdisciplinary and Applied Sciences, University of Delhi (17.10.06-16.10.08)
2.	Head,	Department of Microbiology, University of Delhi South Campus, New Delhi (17.10.05-16.10.08)
3.	Chairman	Department of Biotechnology (7.8.03 – 3.3.05), Kurukshetra University, Kurukshetra
4.	O. S. D. as Principal	Deshbandhu college (E), University of Delhi, Kalka Ji, New Delhi (10.9.01 – 10.6.03)
5.	Warden	Saramati, P.G. Mens Hostel, University of Delhi South Campus (10.5.02 - 6.8.03)
6.	Warden	Aravali, P.G. Men's Hostel, University of Delhi South Campus (26.4.05 – 13.1.08)
7.	Provost	Saramati and Aravali P. G. Men's Hostel University of Delhi South Campus (14.1.08 - continue)

DETAILS OF THE NATURE AND DURATION OF PRESENT AND PAST EMPLOYMENT:

Name of Institution	Post held	Nature of Duties Subject(S) Topics taught	Period	
			From	To
Department of Microbiology, University of Delhi South Campus, New Delhi	Professor	Teaching & Research	4.3.2005	Till date
Department of Biotechnology, Kurukshetra University, Kurukshetra	Professor and Chairman	Teaching, Research and administration	7.8.2003	3.3.2005
Department of Microbiology, University of Delhi South Campus, New Delhi	Reader	(a) Teaching: Bacteriology Environmental Microbiology, Industrial and Food Microbiology. (b) Research: Microbial degradation of lignocellulosics, Hydrocarbons and use of lignocellulolytic microorganisms and their enzymes in pulp and paper industry and improvement of animal feed.	27.7.98	6.8.2003
Department of Microbiology, University of Delhi South Campus, New Delhi	Senior Lecturer	(a) Teaching: Bacteriology Environmental Microbiology, Industrial and Food Microbiology. (b) Research: Microbial degradation of lignocellulosics and applications.	1.9.90	26.7.98
-do-	Lecturer	Teaching and Research :: -do-	1.9.88	31.8.90
Department of Microbiology Bhopal University, Bhopal	Lecturer	(a) Teaching: General Microbiology Soil & Agricultural Microbiology, Biostatistics, Industrial and Food Microbiology (b) Research in the Area of Microbial Degradation of Lignocellulosics	17.7.85	31.8.88

POST-DOCTORAL RESEARCH/VISITS ABROAD:

Type of Assignment	Plan	Associated with the person/Institution
• Visited to Develop collaborative research project and Deliver lectures at Tampere, Finland (September, 2010)	Funded by Tampere University of Technology, Finland	Prof. Matti Karp, Department of Chemistry and Biochemical Engineering, Tampere University of Technology, Tampere, Finland (September 19-25, 2010)
• Participation in International Conference at Lisbon, Portugal	Visit funded by University of Delhi	Oral presentation in 3 rd International Conference on Environmental, Industrial and applied Microbiology (2-4, December 2009)
• Short-Term Biotechnology Overseas Associateship Award (2002-03)	Department of Biotechnology Overseas Associateship Programme (Ministry of Science and Technology, Govt. of India) (Could not avail due to personal health Problem)	Prof. Lew Christov, Ph.D. Sappi Biotechnology Laboratory Deptt. of Microbiology and Biochemistry University of the Orange Free State PO Box 339 Bloemfontein 9300 South Africa
• Long-Term Overseas Research Associateship Award (1995-96)	Department of Biotechnology Overseas Associateship Programme (Ministry of Science and Technology, Govt. of India)	Prof. Karl-Erik. L. Eriksson, Professor of Biochemistry and Eminent Scholar of Biotechnology, Department of Biochemistry and Molecular Biology University of Georgia Athens, U.S.A.
• UNIDO/ICGEB Short Term Fellowship (1994)	UNIDO/ICGEB Long and Short Term Fellowship Programme	Prof. R. Vicuna, Professor of Biochemistry Department of Biochemistry University of Santiago, Santiago, Chile
• To Participate in Colloquium on Lignin Biodegradation and Practical Utilization	ICGEB sponsored/ Training Programme supported by ICGEB/DBT	International Centre for Genetic Engineering and Biotechnology, Padriciano, Trieste, Italy
• Post-doctoral Research (1985-86)	Commonwealth Scholarship Programme	Dr. David Moore, Associate Professor, Microbiology Division, Department of Cell and Structural Biology, University of Manchester Manchester, U.K.

SERVICE RECORD:

Teaching Experience : 26 years
Research Experience : 30 years

STUDENTS GUIDED

Ph.D. Awarded 14	Ph.D. submitted 0	Ph.D. under submission 0
Ph.D. in progress 8		
M.Phil. Awarded 5	M.Phil under submission 0	M.Phil in progress 0
M.Sc. Awarded 21	M.Sc. under submission 0	M.Sc. in progress 1

Representation in Academic/Professional Societies/Bodies/Association:

- **President**, Association of Microbiologists of India (2011)
- **President-Elect**, Association of Microbiologists of India (2009-2010)
- **General Secretary**, Association of Microbiologists of India (2005-2010).
- **Treasure**, Association of Microbiologists of India (1992-1994, 1999-2001 and 2002-2005).
- **Editor**, Indian Journal of Microbiology (2006- onwards)
- **Guest-Editor**- Special Issue of Biodegradation (2010), an International Journal
- **Member-DBT-Animal Biotechnology TASK FORCE** (Ministry of Science and Technology)
- **Reviewer** for research papers for International journals; Applied Microbiology and Biotechnology, BMC Biotechnology, Process Biochemistry, Bioresource Technology, International Journal of Biodegradation and Biodeterioration, Brazilian Journal of Microbiology, Enzyme and Microbial Technology, Life Science Engineering, Applied Biochemistry and Biotechnology, Journal of Applied Microbiology, Indian Journal of Microbiology, FEMS Microbiology Letters, Journals of Hazardous Materials, Annals of Microbiology.
- **Expert Member**, Steering Committee for the Center of Excellence Programme of the Ministry of Environment and Forest, Govt. of India at CEMDE, DU.
- **Dean**, Faculty of Interdisciplinary and Applied sciences, University of Delhi south Campus, New Delhi (2006-2008)

- **Member, Executive Council**, G. J. University of Science and Technology, Hisar, (1999-2010).
- **Member, Establishment Committee**, G.J. University of Science and Technology, Hisar, Haryana (2009-2010)
- **Member Governing Body**, Dayal Singh College, University of Delhi (2010-2011).
- **Member Governing Body**, Rani Amrit Kaur College of Nursing, University of Delhi (2010-2011).
- **Member Governing Body**, Saheed Bhagat Singh College, University of Delhi (2008-2010).
- **Member**, P.G. Board of Studies in Microbiology and Biotechnology, M.D.U, Rohtak (2009-2010)
- **Member, Research Degree Committee**, Meerut University /university, Meerut (2009-2011)
- **Member, Board of studies in Biotechnology**, Himachal Pradesh University, Shimla (2008-2010)
- **Member Academic Council**, Deenbandhu Sir Chhotu Ram Science and Technology, Murthal, Sonapat, Haryana (2008-2010).
- **Member Standing Committee**, University of Delhi (2006-2008)
- **Member** Academic Council, JNU, New Delhi (2006-2008)
- **Member** Academic Council, DU, Delhi (2005-2008)
- **Member** Academic Council, KU, Kurukshetra (2005-2007)
- **Member Governing Body**, Sri Aurobindo college, University of Delhi (2005-2006)
- **Member Governing Body**, P.G.D.A.V college, University of Delhi (2006-2007)
- **Member Governing Body**, Shaheed Bhaghat Singh college, University of Delhi (2007-2008).
- **Member Executive Committee** of Goyal award, Kurukshetra University (2004-2005).
- **Chairman, Research Degree Committee**, Department of Microbiology, University of Delhi south Campus, New Delhi (2005-2008).
- **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)

- **Chairman**, U.G. and PG Board of Studies in Biotechnology, K.U., 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)
- **Member**, Board of studies in Biotechnology, Devi Lal University, Sirsa (2004-2006)
- **Life Member**, Association of Microbiologists of India
- **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**, G.J. University (Technical University) Hisar, Haryana (1999-2002)
- **Member Establishment Committee**, G.J. Technical University, Hisar, Haryana (1999-2002)
- **Member**, Faculty of Interdisciplinary and Applied Sciences, U. D. S. C. New Delhi (1998-2001).
- **Member**, Examination disciplinary Committee, University of Delhi South Campus (1999-2001).
- **Coordinator**, Visiting Team for smooth conduct of Examinations, University of Delhi South Campus (1998-1999, 1999-2000 and 2000-2001).
- **Vice-president**, Parents Teacher Association, DPS, Maruti Kunj (1997-2002).
- **Member** Representative of PTA, Management Committee, DPS Maruti Kunj (1998-2002).
- **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, U. D. S. C. New Delhi (1988-continue).
- **Teacher Member**, Board of Studies, Microbiology, Bhopal University, Bhopal, (1986-88).

SCHOLARSHIPS/FELLOWSHIPS/MERIT/FACILITATION/APPRECIATION CERTIFICATION/AWARDS

- **The American Society for Microbiology Best Poster Prize** for the poster “Influence of Ganoderma sp. RCKK-02in goats” during the International Symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues and Challenges on December 14-17, 2010 at BIT, Mesra, Ranchi, India.
- **Awarded with Second prize for Best Research Poster** in the field of “Microbes in Food and Fermentation” during the 20th Annual Conference of AMI at National Chemical Laboratory, Pune, India (December 2009)
- **Felicitation by Association of Microbiologists of India (AMI)** during 48th Annual Conference of AMI at Chennai (Dec 17th –20th, 2007) and again in 51st Annual Conference o AMI at Ranchi (Dc 14-17, 2010), for services of AMI as General Secretary (2005-2010).
- **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 38th Annual Conference of AMI at New Delhi (December 13, 1997) and again in 42nd Annual Conference of AMI at Gulbarga (November 9th-11th, 2001) for my services to AMI as Treasurer (1993-2001).
- **AMI- Alembic Award** for the year 1999 by Association of Microbiologists of India.
- **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 colloquim, 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** (1976)
- **Merit certificate for being standing First in Botany in B.Sc. IIIrd year** in College (1977).
- **National Scholarship Award** (Govt. of India) during Graduation.
- **Merit Scholarship Award** (Board of School Education, Haryana, Chandigarh, India).

TRAINING COURSES:

- Inorganic Biochemistry Summer Workshop- 1995 at the University of Georgia, Athens, U.S.A. July 29- August 9, 1995.
- 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.
- 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.
- 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.
- 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
- 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.
- Instrumentation and Statistical Course arranged by Bhopal University, January, 1981.

ORGANIZATIONAL AND OTHER EXTRA-CURRICULAR ACTIVITIES:

- Since 1992, as Treasurer, General Secretary, President Elect and President of Association of Microbiology (AMI) actively involved in the growth of AMI and eventually in developing microbiology in our country. We have been encouraging University teaching departments to organize scientific programme to enthuse young microbiologists and recently we have take up the objective to popularize microbiological sciences at school and college levels as well. To begin with, we have organized one/two days colloquium/seminars at M.D. University, Rohtak, D.C.R.U.S.T., Murthal, University of Delhi South Campus, New Delhi and Punjab University, Chandigarh. We are in contact with some schools and accordingly the programme will be organized.
- Organizing Chairman, 51st Annual Conference of AMI 14-17 Dec, 2010. BITS Mesra, Ranchi, India
- Organizing Chairman, 49th Annual Conference of AMI and Internal Symposium on Microbial Biotechnology: Diversity, Genomics and Metagenomics” 18-20 Nov, 2008. Delhi, India
- Organizing Secretary, National Symposium on “Lignocellulose Biotechnology: Present and Future Prospects” proposed to be organized during December 10-11, 2001 at University of Delhi South Campus, New Delhi-21.
- Organizing Secretary, workshop on “Environmental Management of water-borne diseases” was organised on October 29, 1999 at University of Delhi South Campus, New Delhi.
- Organizing Secretary, National Seminar on “Microbial Technologies for Environmental Management and Resource Recovery” was organised at University of Delhi South Campus, New Delhi during October 1-2, 1997.
- Convenor, Accommodation, Transport and Publicity Committee 38th Annual Conference of AMI, held at Delhi, during December 12-14, 1997.
- Convenor, Finance Committee of National Symposium on “New Frontiers in Microbial Technology” held at Bhopal during February 15-17, 1987.
- Member Organisation of Symposium on “Microbes in the service of Human Society” at Delhi during October, 1989.
- Member Organisation (Reception and Audiovisual Committee) of XIV International Congress of Microbiology held at Manchester during September 5-11, 1986.

PUBLICATIONS:

A. (i) BOOK PUBLISHED - 3

1. Lignocellulosic Biotechnology: Present and Future Prospect (Eds) Kuhad R C and Singh A, I. K. International 2007.
2. Advances in soil bioremediation. Soil Biology Series Vol. 17 (Eds) Singh A, Kuhad R C and Ward O P. Springer, Verlag, Germany 2009.
3. Bioaugmentation , Bostimulation and Biocontrol. Soil Biology Series. (Eds) Singh A, Parmar, N. and Kuhad R C. Springer, Verlag, Germany. 2011

(ii) BOOK IN PRESS - 1

1. Biotechnology for environmental management and resource recovery (Eds) Kuhad RC and Singh A. Springer, Verlag, Germany. 2012

B. (i) Papers/Reviews - 128

Total citation of research work - >1500 (Since 1996)

S.No.	Publication	IF
128	Chatwal S, Gupta R, Kumar G, Kuhad RC and SAhoo DB (2012). Bioethanol production from <i>Gracilaria verrucosa</i> , a red alga, in a biorefinery approach. Bioresource technology (Accepted)	5.0
127	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 . (Accepted).	3.4
126	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 . (Accepted).	3.7
125	Deswal D., Gupta R., and Kuhad R.C. (2012). Statistical optimization of process parameters for exoglucanase production by brown rot fungus <i>Fomitopsis</i> sp. RCK2010.	1.9

	<i>Applied Biochemistry and Biotechnology</i> . (Accepted).	
124	Kidwai, M., Jain, A., Sharma, A. and Kuhad, R.C. (2012) Ecofriendly approach for detection of phenols in water using laccase from different fungi. <i>Water Science and Technology</i> (Accepted).	1.2
123	Sharma KK, Sharma S, Karp M and Kuhad RC (2012). Ligninolytic enzymes improve soil DNA purity: Solution to methodological challenges of soil metagenomics . <i>Journal of Molecular Catalysis B: Enzymatic</i> . 83: 73-79	2.7
122	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. <i>Biotechnology for Biofuels</i> 5:16	6.0
121	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 . <i>Asian Pacific Journal of Tropical Biomedicine</i> .2:1147-1150	----
120	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. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> .40:163-70.	1.0
119	Kumar A., Gupta R., Shrivastava B., Khasa Y.P. and Kuhad R.C. (2012). Xylanase production from an alkalophilic actinomycete isolate <i>Streptomyces</i> sp. RCK-2010, its characterization and application in saccharification of second generation biomass. <i>Journal of Molecular Catalysis B.: Enzymatic</i> . 74:170-177.	2.7
118	Das T.K., Banerjee D., Chakarborty D., Pakhira M.C., Shrivastava B. and Kuhad R.C. (2012). Saponin: role in Animal System. <i>Veterinary World</i> 5:248-254.	-----
117	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 <i>Ganoderma</i> sp. rckk02. <i>Bioresource Technology</i> . 107:347-351.	5.0
116	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. <i>Indian Journal of Microbiology</i> . 52:185-190.	0.5
115	Kidwai M., Jain A., Sharma A. and Kuhad R.C. (2012). First time reported enzymatic	2.7

	synthesis of new series of quinoxalines-A green approach. <i>Journal of Molecular Catalysis B: Enzymatic</i> . 74:236-240.	
114	Deswal D., Sharma A., Gupta R. and Kuhad R.C. (2012). Application of lignocellulytic enzymes produced under solid state cultivation conditions. <i>Bioresource Technology</i> . 115:249-254.	5.0
113	Diwaniyan S., Sharma K.K. and Kuhad R.C. (2011). Laccase from an alkalitolerant Basidiomycetes <i>Crinipellis sp</i> RCK-1: Production optimization by response surface methodology. <i>Journal of Basic Microbiology</i> . 51:1-11.	1.3
112	Kuhad R.C. , Gupta R., Khasa Y.P. and Singh A. (2011). Bioconversion of pentose sugars to ethanol: Current and Future prospects. <i>Renewable and Sustainable Energy Reviews</i> . 15:4950-4962.	6.0
111	Kuhad R.C. , Gupta R., and Singh A. (2011). Microbial Cellulases and their industrial applications. <i>Enzyme Research</i> . doi:10.4061/2011/280696	---
110	Deswal D., Khasa Y.P. and Kuhad R.C. (2011). Optimization of cellulase production by a brown rot fungus <i>Fomitopsis sp.</i> RCK2010 under solid state fermentation. <i>Bioresource Technology</i> . 102(10):6065-72	5.0
109	Nagar S., Mittal A, Kumar D., Kumar L., Kuhad R.C. and Gupta V.K. (2011). Hyper production of alkali stable xylanase in lesser duration by <i>Bacillus pumilus</i> SV-855 using wheat bran under solid state fermentation. <i>New Biotechnology</i> 28(6):581-7	2.0
108	Kumar S., Dagar S.S., Mohanty A.K., Sirohi S.K., Puniay M., Kuhad R.C. , Sangu KPS, Griffith GW, Puniya AK (2011). Enumeration of methanogens with a focus on fluorescence in situ hybridization. <i>Naturwissenschaften</i> . 98(6):457-72.	2.3
107	Gupta, R., Khasa, Y.P. and Kuhad, R.C. (2011). Evaluation of pretreatment methods in improving the enzymatic saccharification of cellulosic materials. <i>Carbohydrate Polymers</i> . 84: 1103-1109	3.6
106	Chawla, S., Rawat, R., Shabnam, Kuhad, R.C. and Pundir C.S. (2010) An Amperometric polyphenol biosensor based on laccase immobilized on epoxy-resin membrane. <i>Analytical Methods</i> 3, 709-714	1.0
105	Kuhad, R.C. , Chandna, P., Lata and Singh, A. (2010). Composting of lignocellulosic waste material for soil amendment. . In. Soil Biology Series (Editors) Dr. Ajay Singh, Nagina Parmar and Dr. R. C. Kuhad. Springer Verlag, Germany.	-----
104	Reddy, P.V.M., Reddy, K.K., Kuhad, R.C. , Kumar, M.S. and Prakash, M.G. (2010).	-----

	Effect of supplementation of enzymes and probiotics on performance of broiler chicken. <i>Indian Journal of Poultry Science</i> . 45:61-63.	
103	Sharma KK and Kuhad R.C. (2010). Genetic transromation of lignin degrading fungi facilitated by <i>Agrobacterium tumefaciens</i> . <i>BMC Biotechnology</i> . Doi:10.1186/1472-6750-10-67.	2.4
102	Gupta, R., Mehta, G., Khasa, Y.P. and Kuhad, R.C. (2011). Fungal delignification of lignocellulosic biomass improves the saccharification of cellulosics. <i>Biodegradation</i> . 22(4):797-804.	2.0
101	Shrivastava, B., Thakur, S., Khasa, Y.P., Gupte, A., Puniya, A.K. and Kuhad, R.C. (2010). White rot fungal conversion of wheat straw to energy rich cattle feed. <i>Biodegradation</i> . 22(4):823-31	2.0
100	Kuhad, R.C. , Gupta, R., Khasa Y.P. and Singh A. (2010). Bioethanol production from <i>Lantana camara</i> (red sage): Pretreatment, saccharification and fermentation. <i>Bioresource technology</i> 101: 8348-8354.	5.0
99	Kuhad, R.C. , Mehta, G., Gupta, R., and Sharma, K.K. (2010). Fed batch enzymatic saccharification of newspaper cellulosics improves the sugar content in the hydrolysates and eventually the ethanol fermentation by <i>Saccharomyces cerevisiae</i> . <i>Biomass and Bioenergy</i> . 34: 1189-1194.	3.7
98	Kidwai, M., Poddar, R., Diwanian S. and Kuhad, R. C. (2011). Laccase from basidiomycetous fungus catalyzed synthesis of substituted Benzopyranocoumarins via Domino reaction. <i>Synthetic Communications</i> 41:695-706.	1.1
97	Sanghi, A., Garg, N., Gupta, V.K., Mittal, A. and Kuhad, R.C. (2010). One-step purification and characterization of cellulase-free xylanase produced by alkalophilic <i>Bacillus subtilis</i> ASH. <i>Brazilian Journal of Microbiology</i> . 41: 467-476.	0.9
96	Nagar, S., Gupta, V.K., Kumar, D., Kumar, L. and Kuhad, R.C. (2010). Production and optimization of cellulase-free, alkali-stable xylanase by <i>Bacillus pumilus</i> SV-85S in submerged fermentation. <i>Journal of Industrial Microbiology and Bioetchnology</i> . 37:71-83.	1.8
95	Diwanian, S., Kharb, D., Raghukumar C. and Kuhad R.C. (2010). Decolorization of synthetic dyes and textile effluents by basidiomycetous fungi. <i>Water, Air and Soil Pollution</i> . 210: 409-419.	1.6
94	Kuhad, R.C. (2009). 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.	
93	Sanghi, A., Garg, N., Kuhar, K., Kuhad, R.C. and Gupta, V.K. (2009). Enhanced production of cellulase-free xylanase by alkalophilic <i>Bacillus subtilis</i> ASH and its application in Biobleaching of Kraft pulp. <i>Bioresources</i> 4:1109-1129.	1.4
92	Sharma, K.K., and Kuhad R. C. (2009). An evidence of laccase in Archaea. <i>Indian Journal of Microbiology</i> . 49:00-00.	0.5
91	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. <i>Advance Synthesis and Catalysis</i> . 351:589-595.	6.0
90	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.	----
89	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.	----
88	Gupta, R., Sharma, K. K. and Kuhad, R. C. (2009). Separate hydrolysis and fermentation (SHF) of <i>Prosopis juliflora</i> , a woody substrate, for the production of cellulosic ethanol by <i>Saccharomyces cerevisiae</i> and <i>Pichia stipitis</i> -NCIM 3498. <i>Bioresource Technology</i> . 100(3):1214-20.	5.0
87	Sanghi, A., Garg, N., Sharma, J., Kuhar, K., Kuhad, R. C. and Gupta, V. K. (2008). Optimization of xylanase production using inexpensive agro-residue by alkalophilic <i>Bacillus subtilis</i> ASH in solid-state fermentation. <i>World Journal of Microbiology and Biotechnology</i> . 24:633-640.	1.5
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C. PUBLICATION UNDER REVIEW

Research Paper under review	-	3
Review article under review	-	2

RESEARCH GRANT RECEIVED:

S. No.	Title of the Project	Funding Agency
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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 (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 Ayurvet Pvt. Ltd. Delhi	DBT (Ongoing)
11.	Bioconversion of cellulosics into sugars and ethanol	CSIR (NIMTLI) (On going)
12.	Production of bioethanol from lignocellulosic biomass	DBT (Ongoing)
13.	Evaluation of xylanase and laccase at pilot and mill scale in pulp and paper industry in collaboration with Jay biozyme Technologies, Pune.	DBT (Ongoing)
14.	Preparation and screening of DNA library from wood decaying soil and termite mounts for novel lignocellulolytic enzymes	DBT (Ongoing)
15.	Process development and application of pectinase for retting of plant fibres in collaboration with Jay biozyme Technologies, Pune.	Under SBIRI DBT

PATENTS:

- One patent application for xylanase production already submitted for claim is in progress.
- One patent application for bioethanol production is under preparation.