

Curriculum Vitae

1. Name: PROF. RAM CHANDRA, *Ph.D., FAEB, FBRSI FAMI*
2. Current Position & Address Professor and Dean
Department of Environmental Microbiology,
School for Environmental Sciences
Babasaheb Bhimrao Ambedkar Central University
Vidya Vihar, Raebareli Road, Lucknow-226025, U.P., India
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rc_microitrc@yahoo.co.in



3. Citation Index Citation: 2295 h-index: 31 i-10 index: 46

4. Educational Qualification: Ph.D.

5. Research & Teaching Experience: 29 Years

Professor (2011 to till date)

Department of Environmental Microbiology
B. B. Ambedkar University, Lucknow, Uttar Pradesh

Scientist 'F' (2009 to 2011)

Environmental Microbiology Division
Indian Institute of Toxicology Research (CSIR-IITR, Govt. of India)

Scientist 'E_{II}' (2004 to 2009)

Environmental Microbiology Division
Industrial Toxicology Research Centre (CSIR- ITRC, Govt. of India)

Scientist 'E_I' (1999 to 2004)

Environmental Microbiology Division
Industrial Toxicology Research Centre (CSIR- ITRC, Govt. of India)

Scientist 'C' (1994 to 1999)

Environmental Microbiology Division
Industrial Toxicology Research Centre (CSIR- ITRC, Govt. of India)

Scientist 'B' (1989 to 1994)

Environmental Microbiology Division
Industrial Toxicology Research Centre (CSIR-ITRC, Govt. of India)

6. Area of Specialization:

Prof. Ram Chandra has made national and international leading contribution in area of bioremediation and biodegradation of distillery and pulp paper mill waste by publishing more than **140 original research papers, 06 books, 31 book chapters, 66 technical reports and 41 popular articles**. He has successfully submitted more than 250 nucleotide sequence data to NCBI GenBank of potential bacterial species to decolorize and detoxify lignin from pulp paper mill effluent and melanoidins from distillery effluent. Moreover, he has been granted an Indian patent on “**A process for biological decolourisation of sugarcane molasses based anaerobically treated distillery effluent**”. He has specialization broadly in following area

- Environmental Microbiology (Bioremediation & Metagenomics)
(Biodegradation and their Environmental Effect of Distillery and Pulp Paper Mill Effluent)
- Environmental Biotechnology
- Environmental Impact Assessment
- Phytoremediation of Environmental Pollutants of Distillery and Pulp Paper Mill Waste

7. Administrative & Management Experience:

Dean (2016 to till date)

School for Environmental Sciences, B.B. Ambedkar Central University, Lucknow, UP, India

Dean (Nov 2016- Feb 2018)

School for Management, B.B. Ambedkar Central University, Lucknow, UP, India

Proctor (2016 to till date)

B.B. Ambedkar Central University, Lucknow, UP, India

Director (2016 to till date)

Residential Coaching Academy UGC Sponsored Programme, Govt. of India

Head (August 2017 to Feb 2018)

Deptt. of Environmental Microbiology, B.B. Ambedkar Central University, Lucknow, UP, India

Coordinator (2017)

PG & Ph.D. Entrance Test-2017, B.B. Ambedkar Central University, Lucknow, UP, India

Chief Coordinator (2013-2017)

Contemporary and Innovative Courses, Deptt. of Environmental Microbiology, B.B. Ambedkar Central University, Lucknow, UP, India

Professor In-charge Library (2012-2013)

Gautam Buddha Central Library, B.B. Ambedkar Central University, Lucknow, UP, India

Dean (Alumni Relations) (2013-2014)

Deptt. of Alumni Relation, B.B. Ambedkar Central University, Lucknow, UP, India

Dean (2012-2013)

School for Environmental Sciences, B.B. Ambedkar Central University, Lucknow, UP, India

Coordinator: (2012)

PG & Ph.D. Entrance Test-2012, B.B. Ambedkar Central University, Lucknow, UP, India

Controller of Examination (COE) (2012)

B.B. Ambedkar Central University, Lucknow, UP, India

Professor & Head (2011 to 2014)

Deptt. of Environmental Microbiology, B.B. Ambedkar Central University, Lucknow, UP, India

Scientist In-charge and Project Leader (1993 to 2011)

Division of Environmental Microbiology,
Industrial Toxicology Research Centre (CSIR-ITRC, Govt. of India)

8. Number of Publications/Patents and Research Projects Completed: 280

(i) Research Papers and Technical Reports	: 140
(ii) Books (Authored/Edited)	: 06
(iii) Book Chapters	: 31
(iv) General Articles	: 20
(v) Conference Paper Presented	: 75
(vi) Grant in Aid project	: 23
(vii) Popular Hindi Articles	: 14
(viii) Patent Granted	: 01

9. Supervised M.Sc./ M.Phil./ Ph.D. Students:

(a) Ph.D.	: 14
(b) M.Phil.	: 02
(b) M.Sc.	: 91

10. List of Some Recent Publications

Sl. No.	Authors	Title	Journal Name, No. and Volume	Year
1.	R. Chandra, P. Sharma, S. Yadav, S. Tripathi	Biodegradation of Endocrine Disrupting Chemicals (EDC) and Residual Organic Pollutants of Pulp and Paper Mill Effluent after Secondary Treatment in Biostimulation Process for Environmental Safety	Frontier in Microbiol 2018	2018
2.	P. Chowdhar, A. Yadav, R. Singh, R. Chandra et al.	Stress response of Triticum aestivum L. and Brassica juncea L. against heavy metals growing at distillery and tannery wastewater contaminated site	J. Hazard Mater 206: 122-131	2018
3.	R. Chandra, V. Kumar, S. Tripathi	Evaluation of molasses-melanoidins decolourisation by potential bacterial consortium discharged in distillery effluent	3 Biotech 8:187	2018
4.	V. Kumar, R. Chandra,	Characterisation of manganese peroxidase and laccase producing bacteria capable for degradation of sucrose glutamic acid-maillard reaction products at different nutritional and environmental conditions	World J Microbiology & Biotechnology 34:32	2018
5.	R. Chandra, V. Kumar, Tripathi, S., Sharma, P.	Heavy metal phytoextraction potential of native weeds and grasses from endocrine-disrupting chemicals rich complex distillery sludge and their histological observations during in-situ phytoremediation	Ecological Engineering 111:143-156	2018
6.	R. Chandra, V. Kumar	Detection of androgenic-mutagenic compounds and potential autochthonous bacterial communities during in situ bioremediation of post-methanated distillery sludge.	Frontiers in Microbiology 8:887	2017
7.	R. Chandra, V. Kumar	Detection of <i>Bacillus</i> and <i>Stenotrophomonas</i> species growing in an organic acid and endocrine-disrupting chemical-rich environment of distillery spent wash and its phytotoxicity	Environmental Monitoring & Assessment 189(1):1-19	2017
8.	R. Chandra, S. Yadav, S. Yadav	Phytoextraction potential of heavy metals by native wetland plants growing on chlorolignin containing sludge of pulp and paper industry	Ecological Engineering 98:134-145	2017
9.	R. Chandra, V. Kumar	Phytoextraction of heavy metals by potential native plants and their microscopic observation of root growing on stabilised distillery sludge as a prospective tool for in situ phytoremediation of industrial waste	Environmental Science and Pollution Research DOI 10.1007/s11356-016-8022-1	2017
10.	G. Saxena, R. Chandra, R.N. Bharagava,	Environmental pollution, toxicity profile and treatment approaches for tannery wastewater and its chemical pollutants	Reviews of Environmental Contamination and Toxicology DOI 10.1007/398_2015_5009	2015
11.	B. T. Odumosu, B. A Adeniyi, R. Chandra	First Detection of OXA-10 Extended-Spectrum Beta-Lactamases and the Occurrence of mexR and nfxB in Clinical Isolates of <i>Pseudomonas aeruginosa</i> from Nigeria	Chemotherapy 61(2):87-92	2015
12.	S. Yadav, R. Chandra	Syntrophic co-culture of <i>Bacillus subtilis</i> and <i>Klebsiella pneumoniae</i> (GU 193981) for decolorization of kraft lignin discharge from rayon grade pulp industry.	J. Environmental Science 33:229-238	2015

13.	R. Chandra, P Chowdhary	Properties of Bacterial Laccases and Their Application for Bioremediation of Industrial Wastes.	Environmental Science: Processes & Impacts. 17:326-342	2015
14.	R.N. Bharagava, S. Yadav, R. Chandra	Antibiotic and heavy metal resistance properties of bacteria isolated from the aeration lagoons of common effluent treatment plant (CETP) of tannery industries (Unnao, India)	Indian J Biotechnology 13: 514-519	2014
15.	S. Yadav, R. Chandra	Effect of heavy metals and phenol on bacterial decolourisation and COD reduction of sucrose-aspartic acid Maillard product	J. Environmental Science 25(1), 1-9	2013
16.	R. Chandra, P Chowdhary	Properties of Bacterial Laccases and Their Application for Bioremediation of Industrial Wastes.	Environmental Science: Processes & Impacts. 17:326-342	2015
17.	R.N. Bharagava, S. Yadav, R. Chandra	Antibiotic and heavy metal resistance properties of bacteria isolated from the aeration lagoons of common effluent treatment plant (CETP) of tannery industries (Unnao, India)	Indian J Biotechnology 13: 514-519	2014
18.	S. Yadav, R. Chandra	Effect of heavy metals and phenol on bacterial decolourisation and COD reduction of sucrose-aspartic acid Maillard product	J. Environmental Science 25(1), 1-9	2013
19.	S. Yadav, R. Chandra	Effect of pH on melanoidin extraction from post methanated distillery effluent (PMDE) and its decolorization by potential bacterial consortium	International Journal of Recent Scientific Research 04 (10): 1492-1496	2013
20.	B T Odumosu, B A Adeniyi, R. Chandra	Analysis of integrons and associated gene cassettes in clinical isolates of multidrug resistant <i>Pseudomonas aeruginosa</i> from Southwest Nigeria	Annals of Clinical Microbiology & Antimicrobials 12:29	2013
21.	R. Chandra and S. Chaudhary	Persistent organic pollutants in environment and their health hazards	International J of Bioassays 02 (09): 1232-1238	2013
22.	C. Singh, J S Singh, V Kumar, R. Chandra and N Kumar	Screening out of coliform bacteria from different location of Gomti River in Lucknow	African J of Microbiology Research 7 (29): 3762-3771	2013
23.	R. Chandra, R.N. Bharagava	Bacterial degradation of synthetic and kraft lignin by axenic and mixed culture and their metabolic products.	J. Environ. Biology 34 (6):991-999	2013
24.	S. Yadav, R. Chandra	Detection of persistent organic pollutants from biomethanated distillery spent wash (BMDS) and their degradation by manganese peroxidase and laccase producing bacterial strains	J. Environ. Biology 34 (4): 755-764	2013
25.	S. Yadav, R. Chandra	Simultaneous reduction of colour and organic compounds of biomethanated distillery spent wash (BMDS) by manganese peroxidase (MnP) and laccase producing bacterial consortium at optimized condition	J. Environmental Biology	2012
26.	B T Odumosu, B A. Adeniyi D A Hannah, R Chandra	Multidrug resistant <i>Pseudomonas aeruginosa</i> from southwest nigeria hospitals	Int. J. Pharm. Sci. Rev. Res. 15(2): 11-15	2012
27.	S. Yadav, R. Chandra	Comparative growth and ligninolytic activity of isolated bacterial strains on decolourization of two synthetic melanoidin	Indian Journal of Environmental Protection 32(11), 926-934	2012
28.	R. Chandra, S. Yadav	Biodegradation of organic compounds of molasses melanoidin (MM) from biomethanated distillery spent wash (BMDS) during the decolourisation by a potential bacterial consortium	Biodegradation 23:609-620	2012
29.	R. Chandra, R. Singh,	Decolourization and detoxification of rayon grade pulp paper mill effluent by mixed bacterial culture isolated from pulp paper mill effluent polluted site	Biochemical Engineering 61, 49-58	2012
30.	R. Chandra, R. Singh, S. Yadav	Effect of bacterial inoculum ratio in mixed culture for decolourization and detoxification of pulp paper mill effluent	J Chem Technol Biotechnol 87: 436-444	2012
31.	R. Chandra, R.N. Bharagava, A. Kapley, H.J. Purohit	Characterization of <i>Phargmites cummunis</i> rhizosphere bacterial communities and metabolic products during the two stage sequential treatment of post methanated distillery effluent by bacteria and wetland plants	Bioresource Technology 103, 78-86	2012

32.	R. Chandra, S. Yadav, R.N. Bharagava , Vibhuti Rai	Phenol degradation by <i>Paenibacillus thiaminolyticus</i> and <i>Bacillus cereus</i> in axenic and mixed conditions	World J Microbiol Biotechnol 27:2939-2947	2011
33.	Sangeeta Yadav, Ram Chandra, Vibhuti Rai	Characterization of potential MnP producing bacteria and its metabolic products during decolourisation of synthetic melanoidins due to biostimulation effect of D-xylose at stationary phase.	Process Biochemistry 46: 1774-1784	2011
34.	R. Chandra, Amar Abhishek, Monica Sankhwar	Bacterial decolorization and detoxification of black liquor from rayon grade pulp manufacturing paper industry and detection of their metabolic products	Bioresource Technology 102, 6429-6436	2011
35.	R. Chandra, Monica Shankhwar	Influence of lignin, pentachlorophenol and heavy metal on antibiotic resistance of pathogenic bacteria isolated from pulp paper mill contaminated river water.	Journal of Environmental Biology 32, 1-7	2011
36.	R. Chandra , Sangeeta Yadav	Phytoremediation of Cd, Cr, Cu, Mn, Fe, Ni, Pb and Zn from aqueous solution using <i>Phragmites cummunis</i> , <i>Typha angustifolia</i> and <i>Cyperus esculentus</i>	International Journal of Phytoremediation 13:6, 580-591	2011
37.	R. Chandra, Amar Abhishek	Bacterial decolourisation of black liquor in axenic and mixed condition and characterization of metabolites	Biodegradation 22,603-611	2011
38.	Sangeeta Yadav, R. Chandra	Heavy metals accumulation and ecophysiological effect on <i>Typha angustifolia</i> L. and <i>Cyperus esculentus</i> L. growing in distillery tannery effluent polluted natural wetland site, Unnao, India	Environmental Earth Sciences 62, 1235-1243	2011
39.	R. Chandra, R.N. Bharagava, A. Kapley, H.J. Purohit	Bacterial diversity , organic pollutant and their metabolites in two aeration lagoons of common effluent treatment plant (CETP) during degradation and detoxification of tannery wastewater.	Bioresource Technology 102, 2333-2341	2011
40.	R. Chandra, Sangeeta Yadav	Potential of <i>Typha angustifolia</i> for phytoremediation heavy metal aqueous solution of phenol and melanoidin	Ecological Engineering 36, 1277-1284	2010
41.	R.N. Bharagava, R. Chandra,	Biodegradation of the major color containing compounds in distillery wastewater by an aerobic bacterial culture and characterization of their metabolites	Biodegradation 21, 703-711	2010
42.	R.N. Bharagava, R. Chandra,	Effect of bacteria treated and untreated post-methanated distillery effluent (PMDE) on seed germination, seedling growth and amylase activity in <i>Phaseolus mungo</i> L	Journal of Hazardous Materials 180, 730-734	2010
43.	Sangeeta Yadav, R. Chandra, V. Rai	Effect of biologically treated post methanated distillery effluent on seed germination and growth parameters of <i>Vicia faba</i>	Journal of Environmental Protection 353-365	2010
44.	R. Chandra, Sangeeta Yadav, R.N. Bharagava	Biodegradation of pyridine raffinate by two bacterial co-cultures of <i>Bacillus cereus</i> (DQ435020) and <i>Alcaligenes faecalis</i> (DQ435021)	World Journal of Microbiology and Biotechnology. 26,685-692	2010
45.	Ram Naresh Bharagava and Ram Chandra	“Isolation and characterization of phenolic compounds by 1H NMR and mass spectrometric analysis from sugarcane molasses post methanated distillery effluent.”	Journal of Environmental Protection 873-881	2009
46.	R. Chandra, R.N. Bharagava, A. Kapley, H.J. Purohit	Isolation and characterization of potential aerobic bacteria capable for pyridine degradation in presence of picoline, phenol and formaldehyde as co-pollutants	World Journal of microbiology and biotechnology. 25, 2113-2119	2009
47.	Shail Singh, B.B.Singh, Ram Chandra, D. K. Patel, V.Rai	Synergistic biodegradation of pentachlorophenol by <i>Bacillus cereus</i> (DQ002384), <i>Serratia marcescens</i> (AY927692) and <i>Serratia marcescens</i> (DQ002385)	World Journal of Microbiology and Biotechnology. 25, 1821-1828	2009
48.	R. Chandra, R.N. Bharagava, V. Rai, S.K. Singh	Characterisation of sucrose-glutamic acid maillard products (SGMPs) degrading bacteria and their metabolites	Bioresource Technology 100, 6665-6668	2009
49.	R.N. Bharagava, R. Chandra, V. Rai,	Isolation and characterization of aerobic bacteria capable for the degradation of synthetic and natural melanoidins from distillery effluent	World Journal of Microbiology and Biotechnology 25, 737-744	2009
50.	R. Chandra, R.N. Bharagava, S. Yadav, D. Mohan	Accumulation and distribution of toxic metals in wheat (<i>Triticum aestivum</i> L.) and Indian mustard (<i>Brassica campestris</i> L.) irrigated with distillery and tannery effluents	Journal of Hazardous Materials 162, 1514-1521	2009

Keynote/Invited Speaker in National/International Conferences: (Total 75)

Ram Chandra (2018) Environmental Health Hazards of Distillery Waste and its Bioremediation Strategies for Environmental Safety. Presented in National Conference On “Environmental Conservation: Micro-biotechnological methods to combat Global Issues” organized by Sarva Vidyalaya Kelavani Mandal Managed, Gujarat held from February 10-11, 2018 at Pramukh Swami Science and H D Patel Arts College (**Keynote Speaker**)

Ram Chandra (2017) Environmental Health Hazards of Post Methanated Distillery Waste and Development of New Technology on Decolourisation and Detoxification of Post Methanated Distillery Effluent for its Recycling and Re-use. Presented in National Seminar organized by **All India Distillers’ Association** held from February 22-23, 2017 at New Delhi (**Invited Speaker**)

Ram Chandra (2017) Use of Industrial Wastewater in Agricultural Practices: Challenges and opportunities for its application. Presented in National Workshop on Agricultural Research with Relation to IPR organized by **Babasaheb Bhimrao Ambedkar University, Lucknow** held from August 30-31, 2017 at BBAU, Lucknow (**Lead Speaker**)

Ram Chandra (2016) Environmental Health Hazards of Post Methanated Distillery Waste and Its Detoxification Presented in 74th Annual Convention and International Sugar Expo organized by **The Sugar Technologists’ Association of India** held from July 28-30, 2016 at New Delhi (**Invited Speaker**)

Ram Chandra (2016) Detection of indigenous bacterial community growing in the endocrine-disrupting chemicals and heavy metal rich environment of sugarcane molasses based distillery waste Presented in 57 Annual Conference of Association of Microbiologist of India Organized by University of Gauhati held from 24-27 Nov, 2016 at Guwahati, Assam. (**Lead Speaker**)

Ram Chandra (2014). Role of Bacteria Enzyme for Detoxification of Melanoidin from Post Methanated Distillery Effluent for Environmental Safety. **Presented In 101st Indian Science Congress** held from February 3-7, 2014 at University of Jammu, Jammu (**Lead lecture**).

Ram Chandra (2014). Role of Bacterial Manganese Peroxidase (MnP) and Laccase for Pulp Paper Mill Effluent Decolourisation and Detoxification. Presented in **National Conference** organized by **Association of Microbiologist of India (AMI)** held from Nov 12-14, 2014 at Tamil Nadu Agricultural University, Coimbatore (Invited lecture)

Ram Chandra (2014). Environmental health Hazards of Distillery Waste Water and Its Biodegradation for Environmental Safety. Presented in International Conference on Emerging trends in Biotechnology (ICETB-2014) Organized by **The Biotech Research Society, India (BRSI)** held from Nov 6-9, 2014 at Jawaharlal Nehru University, New Delhi (**Invited Talk**)

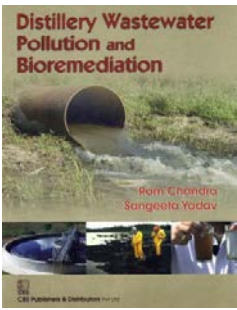
Ram Chandra (2014). Role of Bacteria Enzyme for Detoxification of Melanoidin from Post Methanated Distillery Effluent for Environmental Safety. **Presented In International Conference on Environmental Conservation by Adopting New Technologies** Organized by Modern College of Arts, Science & Commerce, held at **Maharashtra** from January 28-19, 2014 (**Invited Talk**)

Ram Chandra (2012). Biodegradation of pollutants discharged from distillery and pulp paper mill effluent for environmental safety. Presented in international conference on Industrial Biotechnology organized by **The Biotech Research Society, India (BRSI)** held from Nov-21-23, 2012 at Department of Biotechnology, Punjab University, Patiala (**Lead Speaker**)

Ram Chandra (2012). Decolourisation and detoxification of rayon grade pulp paper mill effluent by using bacterial consortium. Presented in **international conference** organized by **Association of Microbiologist of India (AMI)** held from Nov 22-25, 2012 at KIIT University, Bhubaneswar -24, Odisha (**Lead Speaker**)

11. Authored/Edited Books: Six

Book Cover	Name of Book
	<p>Title: Phytoremediation of Environmental Pollutants Editor(s): Ram Chandra, N.K. Dubey, Vineet Kumar Publisher: CRC Press (Taylor & Francis Group), USA Year: 2017 ISBN: 9781138062603</p>
	<p>Title: Environmental Science and Engineering Volume 6: Toxicology Editor: Ram Chandra, Bhola R. Gurjar, J.N. Govil Publisher: Studium Press LLC, USA Year: 2016 ISBN: 1626990948</p>
	<p>Title: Environmental Waste Management Editor: Ram Chandra Publisher: CRC Press (Taylor & Francis Group), USA Year: 2015 ISBN: 9781498724746</p>
	<p>Title: Advances in Biodegradation and Bioremediation of Industrial Waste Editor: Ram Chandra Publisher: CRC Press (Taylor & Francis Group), USA Year: 2015 ISBN: 9781498700542</p>
	<p>Title: Bacterial metabolism of melanoidins from distillery effluent Author(s): Ram Naresh Bharagava & Ram Chandra Publisher: Lambert Academic Publishing Year: 2012 ISBN: 9783848449033</p>

	<p>Title: Distillery Wastewater Pollution and Bioremediation Author(s): Ram Chandra & Sangeeta Yadav Publisher: CBS Publisher & Distributors, New Delhi Year: 2014 ISBN: 9788123925035</p>
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12. Number of Patents Granted/Applied

12.1 Patent Granted: (One)

1. “A process for biological decolourisation of sugarcane molasses based anaerobically treated distillery effluent.” *Application No: 458/DEL/2003A*. International Classification: C02F3/34.

12.2 Patent Applied: (Three)

1. “A cost effective chemical process for formaldehyde removal from pyridine containing industrial wastewater for Environmental safety.” Ref. No. 0184/NF2005
2. “A novel technique for enhanced decolourisation of post methanated distillery effluent (PMDE) by wetland treatment system after bacterial degradation for environmental safety.” Ref. No. 0184/NF2008
3. “Enhanced photo-decolourisation of bacterial pre-treated post methanated distillery effluent (PMDE) for environmental safety.” Ref. No. 0184/NF2008

13. Professional Affiliations:

1. Elected as Member of Board of Governors of The Biotech Research Society, India (2015-17)
2. Executive member Central Council of AMI, India (April 2014-17)
3. Member of American Society for Microbiology (ASM), USA
4. Life member of Society of Toxicology, India
5. Life member of Academy of Environmental Biology, India
6. Life member of Association Microbiologist of India (AMI), India
7. Life member of Indian Science Congress Association, India
8. Life Member of The Biotech Research Society, India
9. Life Member of National Academy of Sciences, India
10. Life Member of The Association for Overseas Technical Scholarship (AOTS), Japan
9. Life members of Indian Network for Soil Contamination Research (INSCR), New Delhi
10. The board of Directors Governing board of Editors and Publications board of the American Biographical Institute

14. Successfully Completed Grant-In-Aid Project (GAP) As Project Leader from Different Funding Agency:

Sl. No.	Title	Funding agency	Year
1.	Development of indigenous technology for removal of sulfur compounds and colour from distillery effluent for improvement of biomethanogenesis	Ministry of Environment and Forests (MoEF) , Govt. of India, New Delhi.	1994-1998
2.	Development of simple, rapid specific test for detection of fecal coliform. <i>E. coli</i> in rural drinking water	Ministry of Rural Development , New Delhi, (Rajiv Gandhi Drinking Programme).	1997-1998
3.	Microbial detoxification of industrial waste	CSIR , New Delhi	1996-1999
4.	Microbial degradation of pyridine raffinate for environmental safety	Vam Organic chemical Ltd. (Industry) Gajraula (U.P.)	1998-2000
5.	Feasibility test study for microbial decolourisation of treated distillery effluent	Vam Organic chemical Ltd. (Industry) Gajraula (U.P.)	1998- 2000
6.	Bacterial analysis from sludge sample	IIT, Kharagpur	
7.	Development of microorganism for removal of colour from treated distillery effluent	Deptt. Of Biotechnology , Govt. of India, New Delhi	1999-2003
8.	Biological removal of colour from treated distillery effluent at tertiary stage and their application for aquaculture	Ministry of Environment & Forests (MoEF) , Govt. of India, New Delhi	2000-2004
9.	Optimisation of wetland treatment system and microbial decolourisation of treated distillery effluent	Vam Organic chemical Ltd. (Industry) Gajraula (U.P.)	2001-2003
10.	Microbial decolourisation and toxicity evaluation of pulp and paper mill effluent	Council of Science and Technology (CST) , UP, India	2002-2005
11.	Development of microbial technique for degradation of pyridine and picoline raffinate for safe disposal	Department of Biotechnology (DBT) , Govt. of India, New Delhi	2004-2006
12.	Environmental Impact Assessment and baseline data collection for Utkal Alumina project	Ministry of Industry	2002-2005
13.	Optimisation of pilot scale bacterial decolourisation and degradation of anaerobically treated distillery effluent in constructed wetland treatment system for safe disposal	Department of Biotechnology (DBT) , Government of India	2004- 2007
14.	Biological decolourisation of anaerobically treated distillery effluent by wetland plant treatment system. Industrial waste minimization and Clean-Up	CSIR-Network Project	2004- 2007
15.	Characterization of inhibitory factors for improvement of bacterial degradation of lignin and pentachlorophenol from pulp paper effluent and its application for ferti-irrigation	Department of Biotechnology (DBT) , Government of India	2007-2011
16.	Bacterial degradation of lignin and pentachlorophenol for pulp paper effluent decolourisation and its application for aquaculture and ferti-irrigation	Ministry of Environment and Forests (MoEF) , New Delhi	2007-2011

17.	Elucidate the bacterial molecular mechanism for degradation of melanoidin during detoxification of distillery effluent for zero pollution discharge technique	CSIR-Network Project	2007-1012
18.	Investigation of Environmental Toxicity of Distillery and pulp paper mill pollutants by Metagenomics approach from contaminated site	Vam Organic chemical Ltd. (Industry)	2007-2012
19.	Degradation and decolourisation of post methanated distillery effluent in biphasic treatment system using bacteria and wetland plant for environmental safety.	Council of Scientific & Industrial Research, New Delhi	2010-2012
20.	Metabolite characterization and detection of functional genome of melanoidin degrading enzyme involved during the decolourization of post methanated distillery effluent	Department of Biotechnology (DBT), Govt. of India	2011-2014
21.	Study the bioremediation and metagenome of persistent organic compounds of pulp paper mill waste contaminated site in different environmental conditions	University Grants commission (UGC), New Delhi	2012 -2015
22.	Field scale demonstration of pulp paper mill effluent detoxification after secondary treatment by combination of biostimulation and constructed wetland treatment process	Department of Science & Technology (DST), Govt. of India	2014- 2017
23.	Study the biofilm formation in bacterial community, detection of quorum sensing molecules and their gene expression during bioremediation of chlorolignin pollutants discharged from pulp paper industry.	Department of Science & Technology, Govt. of India	Nov 2015-continue.....
24.	Optimization of Post Methanated Distillery Effluent (PMDE) TDS Reduction for Development of Decolourisation and Detoxification Technique in Two Step Treatment Process Using Bacteria and Constructed Wetland Plant Treatment	Department of Biotechnology (DBT), Govt. of India	March, 2017-continue.....
25.	Development and demonstration of pulp paper mill effluent detoxification technology after secondary treatment by combination of bio-augmentation and constructed wetland treatment process for re-use and prevention of river pollution.	Department of Biotechnology (DBT), Govt. of India	May 2018 -continue.....

15. Honors/Recognition:

1. **Award** of outstanding contribution for the development of University (Contribution of highest h-index in research) (2018)
2. **Awarded** by University for **Outstanding Services** for the Development of University By BBAU, Lucknow (2017)
3. **Merit Certificate** for Best Research Contribution By BBAU, Lucknow (2014)
4. **Fellow**, Association of Microbiologists of India (AMI) (2013)
5. **Fellow**, The Biotech Research Society of India (BRSI), (2013)
6. **Fellow**, The Academy of Environmental Biology (AEB), Lucknow (2008)
7. **Merit for leadership development programme** awarded by CSIR, Gov. of India (2008)
8. **Strategic R&D Management in CSIR** awarded by CSIR, Gov. of India (2008)
9. Member of **Academy Advisory Board** in Life Sciences, **The Energy and Resources Institute (TERI)**, New Delhi (2009)

16. International Collaboration/Visit:

1. Attended NEDO programme on “Industry and Environmental Protection for India” at “The Association for Overseas Technical Scholarship (AOTS)”, JAPAN, Oct 30- Nov 18, 2000.
2. Offered a training programme to **Dr. H. Halfmier** under **DAAD-exchange programme** on topic **Microbial removal of waste gases from industrial waste** during Dec, 1996 - Jan, 1997.
3. Offered a training programme to **Prof. (Mrs.) Edna I. Chukwara**, Asst. Prof. from NIGERIA under **CSIR TWNSO** fellowship postdoctoral research on topic **Physico-chemical and Bacteriological analysis of tannery effluent during treatment system at Unnao, India** during Jan –April, 2004.
4. Offered a training programme to **Mr. Bamidele Tolulope Odumosu**, Under **CSIR-TWAS** fellowship for Ph.D Program on the topic “**Molecular characterization of multidrug resistant *Pseudomonas aeruginosa* isolated from hospital**” in six southwest states of Nigeria from April 7, 2011 to April, 2012

17. Organized National/International Conference/Workshop

- a) 58th Annual Conference of Association of Microbiologists of India (AMI) & International Symposium on “Microbes for Sustainable Development: Scope and Application” during November 16-19, 2017 at BBAU, Lucknow, U.P.
- b) National Workshop on Agricultural Research with Relation to IPR (ARRIPR) during August 30-31, 2017 at BBAU, Lucknow, U.P.



18. Glimpses of Important Events/Honours

Prof. RAM CHANDRA Receiving the Fellow Academy of Environmental Biology-2008



Receiving the Appreciation from Governor of U.P. his excellency Shri. B. L. Joshi, 2014



Prof. RAM CHANDRA receiving the FAMI Award- 2013



Prof. RAM CHANDRA receiving the Fellow Award, BRSI- 2013



Releasing of Authored Book on Distillery Waste Management



Invited Speaker by CST-UP for Popular Lecture



Receiving award for outstanding services for the development of University (2017)



Receiving award for outstanding contribution for the development of University (contribution of highest h-index in research) (2018)



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Dr. A.P.J Abdul Kalam Award 2018 for Excellence to Prof. Ram Chandra through Friendship Forum New Delhi by Former Governor of Sikkim



Best Indian Golden Personalities Award-2018 to Prof. Ram Chandra through Friendship Forum New Delhi by Former Governor of Sikkim

Date: June 04, 2018

(PROF. RAM CHANDRA)