BIODATA

1) Name		: Dr. Ch. Sasikala
2) Designation		: Professor and Chairperson, Board of Studies in Environemntal Science and Technology
3) Address	a) Official	: Centre for Environment, IST, JNT University Hyderabad, Kukatpally, Hyderabad – 500 085 INDIA Phone: 040-23158661/2/3/4 Extn.3480 Email: sasi449@yahoo.ie sasikala.ch@gmail.com, sasi449@jntuh.ac.in
	b) Home	: 5-3-357, Rashtrapathi Road, Secunderabad 500 003 INDIA Phone: Res. 040-27535462 (R) Mobile : 9000796341
4) Date of Birth		: 9th March 1963
5) Nature of work		: Teaching/Research
6) Research experience		: 30 years of research experience Including 26 years of post-doctoral experience
7) PG teaching experience		: 21 years
8) Field of specialization		: Environmental microbiology and biotechnology (Bacterial diversity, Bioprospecting, biodegradation and Bioremediation)
9) Research publications (In standard refereed journals)		: 191 (Annexure A) Cumulative impact factor: 440 h index: 28; Number of citations: ~3,000

10) Academic qualifications and career record:

a) Degrees : B.Sc., B.Ed., M.Sc., Ph.D.

b) **Details of Educational qualifications**:

Exam passed	**Subjects**	**Board/ University**	**Year of passing**	**Class/ Division**	**% of Marks**
S.S.C	Tel. Hindi, Eng. Maths, Gen. Sci. and Social studies	Board of Secondary Ed. Andhra Pradesh	1978	I	70
Intermediate	Biol. Phy. Chem.	Board of Intermediate Education, A.P	1980	I	76.5
B.Sc.	Bot. Chem. Microbiol	Osmania University	1983	I	83.2
B.Ed.	Life Sciences	Osmania University	1984	I	68
M.Sc.	Applied Microbiology	Bharathiar University	1986	I (university second rank)	70
Ph.D.	Microbiology	Osmania University	1990	Not applicable	Not applicable

c) **Career record**

Designation	University/Institution	Duration
UGC-JRF	Osmania University	02-04-1987 to 01-04-1989
UGC-SRF	Osmania University	02-04-1989 to 01-08-1991
CSIR-RA	Osmania University	02-08-1991 to 05-04-1994
Research Scientist (UGC)	Osmania University	06-04-1994 to 31-01-1997
	JNT University	01-02-1997 to 22-10-1999
Assistant Professor	JNT University	23-10-1999 to 22-10-2003
Associate professor	JNT University	23-10-2003 to 31-12-2010
Associate professor	JNTUniversity	14-10-2008 to14-09-2010

and Head		
Professor	JNTUniversity	01-01-2011 to continuing
Professor and Head	JNTUniversity Hyderabad	27-10-2012 to 07.02.2015

11) **Significant achievements/contributions/membership of professional bodies, etc.**

1. Qualified UGC NET – JRF August, 1986
2. Qualified GATE 1987 with a percentile score of 93.2
3. Recipient, CSIR Research associateship, 1992
4. Recipient UGC Research associateship, 1993
5. Recipient, "DST young scientist" project, 1999.
6. Recipient, UGC Research scientist award, 1994
7. Recipient, DBT overseas associateship award, 2008
8. Recipient, UGC Research award, 2014.
9. Recipient, UGC Midcareer award, 2016.
10. Recipient, "State Award for meritorious teachers" (Best Teacher Award) 2016, from government of Telangana.
11. Recipient, "AMI Prof BN Johrii award for Microbial diversity- 2016" of Association of Microbiologists of India.
12. Visiting professor, IFM-GEOMAR, Kiel, Germany.
13. Refereed papers for
    International Journal of Hydrogen Energy (Elsevier Science Publishers, Amsterdam, Netherlands),
    International Journal of systematic and evolutionary microbiology,
    Indian Journal of Microbiology (Springer,New York, USA)
    Indian Journal of Experimental Biology (NISCOM, India)
    Indian journal of Experimental Biology & JSIR (NISCAIR, India)
    Current Science of National Academy of Science, India
    Journal of General and Applied Microbiology (CAP, Japan)
    Antonie Van Leeuwenhoek journal of microbiology (Springer,USA)
    International journal on plant physiology and biochemistry (Elsevier),
    Journal of Applied microbiology and others

14. **Elected as member of International Committee on systematic of prokaryotes: Subcommittee on the taxonomy of phototrophic bacteria.**
15. **Elected Active member of the "New York Academy of Science"**
16. Elected fellow of telangana academy of sciences, 2017.
17. Member Editorial Board of Indian Journal of Microbiology (2008-2010).
18. Recognized as Government analyst by Central Pollution Control Board, Govt. of India

19. Placed among top hundred researchers of India, and top 5 in microbiology 2011-2013 and 2012-2014 by Outlook group (Careers 360 magazine) from data obtained from Scopus.
20. "BEST PUBLICATION AWARD 2013" –Society For Advancement of Human and Nature (SADHNA), Dr YS Parmar university of Horticulture and Forestry Nauni, Solan173230 Himachal Pradesh, INDIA.
21. Member, Management committee of MSME-TBI (Micro, Small and Medium enterprises- Technology Business Incubator) of JNTUH Hyderabad.
22. Member, Board of studies of in Environmental Science of VNR VJIT, GVIRT, CVR college of Engineering Mahavir college of Engineering, Hyderabad.
23. Chairperson, Board of Studies, Environmental Science, JNTUHyderabad (2010-2012 and 2015 to continuing)
24. Member, Board of studies in Microbiology, SK University, Ananthapuramu (2014-2016), and Kakatiya University, Warangal (2015-2017), Sri Padmavathi Mahila Vishvavidyalayam, Tirupathi (2016-2018)
25. Member board of Studies in Environementl Science and Technology of IST, JNTUHyderabad (1997 to continuing)
26. Honorary consultant to an NGO, "Society for Environment and Energy (SEED)", Hyderaba**d.**
27. Life Member of Association of Microbiologists of India.
28. **Nominated as an expert to Intergovernmental science-policy platform on Biodiversity and Ecosystem Services of (IPBES) of United Nations (UN) by Ministry of Environment, forests and climate change, Government of India.**
29. Resource person for evaluation of DBT, DST, MoES and MoEF projects
30. Department of Biotechnology, Government of India nominee on the institutional Biosafety Committee of M/s SDV Synthetics Private limited, Hyderabad from 2014-2017.
31. Membwer, Expert committee on finalisation of syllabus for the test for the post of environmental Engineers of Telangana State Pollution Control Board.
32. Member, Technical Evaluation Panel (TEP) for Department of Biotechnology, Government of India's Biotechnology Industry Research Assistance Council (BIRAC), for Biotechnology Ignition Grant (BIG).
33. Member, "Expert Committee on Access and Benefit Sharing" of National Biodiversity Authority, India.
34. Member, Text book committee on Environmental Science of Telangana state Board of Intermediate education.

Research Contribution:

1. List of students who are awarded M.Phil/M.Tech/M.Sc:

S.No	Degree	Candidate	Thesis Title	Award Year
1.	M.Tech.	P. Nanda	Anoxic photometabolism of	1996

	(Biotechnology)	Devi	homocyclic aromatic compounds by *Rhodobacter sphaeroides* OU5	
2.	-Do-	A. Aruna	Optimization of photoproduction of hydrogen by immobilization	1996
3.	M.Sc. (Tech). Environmental Chemistry	G. Sangeeta Rani	Phenolic content and bacterial load of a few industrial effluents in and around Hyderabad	1997
4.	M.Sc. (Tech). Environmental Science & Technology	B. Archana	Antimicrobial activity and biodegradation of pyrazines by *Pseudomonas putida*	1998
6.	-do-	Ruby Fernandez	Photobiodegradation of pyridine by *Rhodopseudomonas* sp. JA1	1999
7.	M.Phil. (Environmental Management)	P. Sunitha	Effect of N-containing heterocyclic aromatic compounds on the diazotrophic growth and itrogenase activity of *Rhodopseudomonas palustris* JA1.	2000
8.	M.Sc.. Environmental Science & Technology	Vandana Chaturvedi	Application of purple non-sulfur bacteria as biofertilizer to paddy	2000
9.	-do-	Rachana Agarwal	Characterization of a marine purple non-sulfur bacterium and its biodegradation capabilities.	2000
10	M.Sc. Environmental Science & Technology	K. R. Girija	Biodegradation of pyrazine 2-carboxylic acid by a newely isolated chemotrophic bacterium *Pseudomonas aeruginosa* strain Cd.	2001
11	MSc. Environmental Science & Technology	Agnes Krocha	Determination of microbiological quality of bottled drinking water other than natural mineral water available for sale in the twin cities of Hyderabad & Secunderabad.	2003
12	M.Sc. Env. Biotech.	Mercy Rose Stella	Photobiodegradation of *p*-toulene sulfonic acid by an anoxygenic phototrophic purple sulfur bacterium. Strain JA121	2005
13	M.Sc. Env. Biotech.	Shalem Raj	A novel method for augmentation of aromatic compound biodegradation and industrial effluent treatment using pyrazine 2-carboxylic acid	2005
14	M.Sc. Env. Biotechnol.	B. Vinay Kumar	Anoxygenic phototrophic bacterial diversity of common effluent treatment	2006

			plants.	
15	B. Tech Biotechnology, ICFAI Institute of science and technology, Hyderabad	Shirin. N. Nathani	Studies on hydrogen phototproduction from industrial effluent	2007
16	B. Tech Biotechnology, ICFAI Institute of science and technology, Hyderabad	Himani Das	Isolation of aromatic compound degrading bacteria	2007
17	M.Sc. Env. Biotechnol.	Dhivya Reddy	Isolation of starch degrading anoxygenic phototrophic bacteria from rhizosphere soil of Andhra Pradesh.	2008
18	M.Sc. Env. Biotechnol.	Y. Priyadarshini Devi	Cultured diversity of purple non sulfur anoxygenic bacteria from few selected habitats of Manipur.	2009
19	M.Sc. Env. Biotechnol.	M.S. Ram	Response of *Rhodobacter vinayakumarii* JA123^{T} to sodium chloride stress	2009
20	M.Sc. Env. Biotechnol.	B. Mohammad Yunus	Cultured diversity o purple non-sulfur anoxygenic phototrophic bacteria of selected habitats of Andhra Pradesh.	2009
21	M.Sc. Env. Biotechnol.	R. Sravan Kumar	*Shewanella fodinae* sp. nov., a novel Gammaproteobacterium isolated from a coal mine.	2009
22	M.Sc. Biotechnology S.K University	M. Azmatunnisa	Isolation of organic solvent tolerant bacteria from different aromatic organic solvents	2009
23	M. Sc Eco biotechnology Bharathidasan university	Wilson Anand Raj	Photobiodegradation of nitrobenzene by a purple non sulfur bacterium *Rhodobacter sphaeroides* DSM 158	2010
24	MSc. Bioinformatics, Bharathidasan university	Karthikeyan, B. S	In silico comparision of xenobiotic degradation pathways among three strains of purple non sulfur bacteria and confirmation of aniline degradation by *Rhodobacter sphaerodies.*	2010
25	M.Tech. Env.	B. Divyasree	Diversity of purple anoxygenic phototrophic bacteri and bioprospecting	2012

	Management.		for biodiesel production	
26	M.Sc. Env. Biotechnol. JNTUH	P. Swetha	Production of Polyhydroxy alkanoates (Bioplastics) by Anoxygenic phototrophic bacteria	2012
27	M.Sc. Env. Biotechnol. JNTUH	K. R. Bhavani Sankar	Isolation and characterization of hydrocarbon degrading bacteria.	2014
28	M.Sc. Env. Biotechnol.9JNTUH	K. Naresh Kumar	Solid waste (from non-residential buildings) audit in JNTUHyderabad campus and adaptation of suitable solid waste management solutions.	2014
29	M.Tech Env. Management, JNTUHyderabad	Rami Reddy Pallerla	Microbial analysis of potable water from different sources	2014
30	M.Tech Env. Management, JNTUHyderabad	M.Mohan Rao	Microbial analysis of air from different clean room classes of bioprocess areas of a pharmaceutical industry	2014
31	MSc Applied Microbiology, Banaras Hindu University	Anosh Sada	Studies on a yeast endosymbiotic bacterium.	2015
32	International Baccalaureate (I B), Oakridge International School, **Hyderabad**	Nrupen, P.	Studies on enrichment and isolation of estradiol degrading bacteria	2015
33	MSc Microbiology, Loyola Academy Degree and PG college, Alwal, Secunderabad.	Anusha	Studies on bacterial diversity degrading Short chain hydrocarbons	2015
34	MSc Biotechnology, Loyola Academy Degree and PG college, Alwal, Secunderabad.	Sripuram Meena	Isolation, identification and bioprospecting of colored bacteria	2017
35	MSc Biotechnology, Loyola Academy Degree and PG college, Alwal, Secunderabad.	Muppidi Maneesh Kumar	Production of amylase by strains of the genus *Halobacillus*	2017
36	B> Tech	Krishna	Anaerobic bacterial diversity for	2018

	Biotechnology,	Kumar Baldawa	polyaromatic compound degradation.	

2. Indian Academies Summer research fellows:

S. No	Candidate	Course	Project Title	Year
1.	Sasmitha,	Integrated PhD (Biotechnology), IIT Gandhinagar	Antimicrobial production by anaerobic bacteria	2014
2	Arpith Kothari,	B. Tech Biotechnology, Dayananda Sagar Institutions, Bangalore.	Studies on biodiesel production by purple nonsulfur bacteria	2014
3	Anosh Sada,	MSc. Biotechnology, Banaras Hindu University, Varanasi	Studies on microbial degradadation of ciprofloxacin: Serendipetous discovery of endosymbiotic bacteria in yeast.	2015
3	Rakshitha	B.Tech Biotechnology from Sastra University, Tanjavore	Studies on the antimicrobial activity of a siddha medicine	2015
4	Jayathra, P.	BSc paramedical course in coronary surgery, Jawaharlal Institute Of Postgraduate Medical Education & Research (JIPMER), Puducherry	Screening of bacteria for the degradation of estradiol valerate	2015
5	Aneesa Haroon	B. Tech biotechnology, NIT, Tiruvananthapuram	Selective enrichment and isolation of bacteria capable of degrading a few petroleum hydrocarbons	2016
6	Amrita Roy,	BSc, Fergusen college, Pune	Bacterial diversity for degradation of micropollutants	2017

7	Tinkujyothi Choudhury	BSc, Cotton University, Guwahati.	Bacterial diversity of a diesel contaminated water smple from Katau, Sikkim.	2017

3. List of students awarded/working for Ph.D:

S. No	Degree	Name	Title of the thesis	Year of award
1.	Ph.D (Environmental Science)	N. Rajasekhar (ICAR-JRF)	Photometabolism of heterocyclic aromatic compounds by *Rhodobacter sphaeroides* OU5	2000
2.	-do-	Archana. A (UGC-JRF/SRF)	Studies on the contribution of purple non-sulfur bacteria to dinitrogen fixation in flooded paddy soils	2002
3.	-do-	P. Nanda Devi	Photometabolism of homocyclic aromatic compounds by the members of the genus *Rhodobacter*	2005
4.	-do-	K. Arunasri (CSIR-SRF)	Distribution of purple non-sulfur bacteria in paddy soils and their possible use as biofertilizer	2005
5.	Ph.D (Biotechnology)	T.N.R. Srinivas (CSIR JRF/SRF)	Cultured diversity of purple non-sulfur bacteria of diverse habitats of India	2008
6.	-do-	P. Anil Kumar (CSIR JRF/SRF)	Diversity of green and purple sulfur bacteria of marine habitats of India	2008
7.	Ph. D (Environmental Science)	Girija, K. R.	Rhizosphere anoxygenic phototrophic bacteria of crops grown in semiarid tropical regions of Andhra Pradesh: Their potential as biofertilizer.	2010
8.	Ph. D (Environmental Science)	P. Aparna (APNL-JRF)	Relay biodegradation of Pyrazine-2-carboxylic acid by a newly enriched mixed culture of soil bacteria: Elucidation of biochemical pathway and soil microcosm studies.	2010
9	-do-	Sivaranjani, G.	Microbial production of violacein through solid substrate fermentation.	2012
10	Ph. D (Environmental Science)	J.S. Sasi Jyothsna (CSIR-SRF)	Diversity of H_2S producing bacteria of diverse habitats of India	2012

11	Ph. D (Biotechnology)	V.Venkata Ramana (CSIR-SRF)	Cultured diversity of anoxygenic phototrophic purple bacteria of diverse habitats of India	2012
12	Ph. D (Biotechnology)	KVNS. Lakshmi (CSIR-SRF)	Anoxygenic phototrophic bacteria of rice soils and their biofertilizer attributes	2013
13	Ph. D (Environmental Science)	P. Shalem Raj (JNTU-JRF)	Description of novel species of purple nonsulfur bacteria of diverse habitats of India	2013
14	Ph. D (Biotechnology)	K. Sucharita (MoES SRF)	Cultured diversity of green and purple anoxygenic phototrophic bacteria of Chilika lagoon, India.	2014
15	Ph. D (Environmental Science)	B. Vinay Kumar (JNTU JRF)	Endospore forming anoxygenic phototrophic bacteria from rhizosphere soils of India	2014
16	Ph. D (Biotechnology)	EVV Ram Prasad (CSIR-SRF)	Studies on polar lipids and carotenoids of anoxygenic phototrophic bacteria	2015
17	Ph. D (Biotechnology)	Srinivas, A (CSIR-SRF)	Cultured diversity of bacteria from saline and hyper saline habitats of India.	2017
18	Ph. D (Biotechnology)	K. Rahul (CSIR-SRF)	Biosurfactant production and diesel oil degradation by *Alcanivorax* sp. JC109	submitted
19	Ph. D (pharmaceutical sciences)	T. Sravanthi (UGC– OBC national fellow)	Description of novel taxa of spirochetes and their bioprospecting through integrated metabolomic and genomic approaches.	Submitted
20	Ph. D (Biotechnology)	Shivani Yadav (CSIR– SRF)	Cultured and genetic diversity of spirochetes of marine habitats of India	Submitted
21	Ph. D (Env. Science)	M. Azmatunnisa (UGC-MANF)	Isolation, characterization of hyper solvent tolerant bacteria (HSTB) and insights into their biotechnological potentials.	Registered
22	Ph. D (Biotechnology)	B. Sailaja (CSIR – SRF)	Cultured diversity of anaerobic anoxygenic phototrophic purple bacteria from diverse habitats of India	registered
23	PhD (Env. Science)	B.Divya Sree (DST-Inspire Fellow)	Cultured diversity of anoxygenic phototrophic purple bacteria from industrial effluents of Andhra Pradesh and their potential in degradation of xenobiotics	registered

24	Ph. D (Biotechnology)	V. Varshini (UGC-JRF)	A study on the diversity of salt forming bacteria and their bioprospecting	registered
25	PhD	Jagadeeshwari Uppada (MoES JRF)	Climate change impacts on marine microbiome	registered
26	PhD	Vineel kumar	Studies on PAH degrading bacteria	To be registered

SRF = Senior Research Fellow; JRF = Junior Research Fellow; CSIR= Council for Scientific & Industrial Research; UGC = University Grants Commission; DBT = Department of Biotechnology, DST = Department of Science and Technology, MoEF= Ministry of Earth Sciences; APNL = Andhra Pradesh Netherlands Biotech programme; .MoES = Ministry of Earth Sciences; JNTU = Jawaharlal Nehru Technological University; MANF=Moulana Azad National Fellowship;

Co-supervisor for the following students:-

S.No	Name	Title	Year of award
1	G. Prabhavathy Das	Characterisation of specific biomarkers in pesticide toxicology using biotechnological approaches.	2008
2	A. P. Shaik	DNA damage studies on Lead exposed individuals using molecular and computational approaches .	2009
3	Sunil Pratap Reddy	Studies on bacterial concrete	2010
4	B. Ramalingaiah	Bio-degradation of naphthalene and simultaneous PHA accumulation by *Pseudomonas* sp.	2010
5	V. R. Madhu	Characterisation and quantification of trawl bycatch along Savrashtra coast, Gujarat, India.	2011
6	Y. Vimala	Bioremediation of metal ions by microorganisms	2011

7	T. Srinivasu	Development and validation of analytical methods for macromolecular drugs and combination drug products	2014
8	Srinivas Reddy Vempada	Studies on the properties of self-healing concrete based on microbial-induced calcite precipitation by *Bacillus subtilis* JC3	2015
9	C. Muralidhara Rao	Phytoremediation studies of tailing ponds of uranium mines.	2015
11	G. Venkatesh	Studies on biochar production and its effects on soil properties and yields in rainfed Pigeon pea (*Cajanus cajan* (L.) Millsp.	2017
10	Lakshman Singh	Uranium tailing pond bioremediation	2017
11	Chandra Teja		Submitted 2018

List of post-doctoral Fellows

S.No	Name	Title	Year of Award	Amount (Rs.)
1	A. Arunasri	Anoxygenic phototrophic bacteria of waste water treatment plants and assessment of their role in xenobiotic hydrocarbon degradation	1-7-2005-31-6-2010.	15,00,000
2	Dr. Vishnuvardhan Reddy (Dr. S. Kothari postdoctoral fellowship of UGC)	Diversity and biotechnological potentials of halophilic bacteria from Lonar lake.	2013-2016	22,00,000
3	Dr. M. Lakshmi Prasuna (DST-SERB-N-PDF project) PDF/2015/000255	Deciphering the global and carbon metabolic adaptations of *Prochlorococcus* sp. to elevated carbon dioxide: An integrated omics approach.	2016 **(1-4-2016 to 31-3-2018)**	19,20,000

List of women scientist projects mentored

S.No	Name	Title	Year of Award	Amount (Rs.)
1	Divya Kurade		2015-2017	

List of research projects completed/ongoing

S.No	Title of the project	Funding Agency	Duration	Amount (Rs)
1.	Biotechnological potentials of anoxygenic phototrophic bacteria	**UGC** (Research Scientist Scheme)	5 Years 6 Months (6-4-1994 to 22-10-1999)	2,25,000/- + Salary (Lecturer scale)
2.	Examining the ability of anoxygenic phototrophic bacteria to photodegrade/ detoxify aromatic compounds and their possible use as biofertilizer in low land rice agriculture.	**DST** (Young Scientist Project)	2 Years 6 Months (1-7-1997 to 31-12-1999)	4,74,750/-
3.	Studies on the anoxygenic purple non-sulfur bacteria of paddy soils of Andhra Pradesh: Their contribution to nitrogen fixation and possible exploitation as biofertilizer.	**DBT**	3 Years (1-12-1998 to 30-11-2001)	24,33,000/-
4.	Augmentation of photoproduction of hydrogen by purple non-sulfur bacteria using photosynthetic modulators	**CSIR**	3 Years (1-4-2003 to 31-3-2006)	8,50,000/-
5.	Studies on the microbial degradation of pyrazines: Their possible exploitation in bioremediation of xenobiotic recalcitrant hazardous dump sites.	**UGC**	3 Years (1-1-2005 to 31-12-2007)	11,47,000/-
6.	Studies on the global and local diversity of purple and green sulfur bacteria genetically and on the basis of pure cultures obtained from marine habitats.	**DST-DAAD** (Indo-German project)	2 Years (1-6-2004 to 31-5-2006)	7,88,648/-
7.	Marine anoxygenic phototrophic bacteria for the production of carotenoids and biopolyesters.	**DBT**	2Yyears (1-12-2005 to 30-11-2007	17,00,000/-
8.	Anoxygenic phototrophic bacterial diversity of marine ecosystems and	**DOD**	2 Years (1-12-2005 to 30-	16,38,000/-

	their capability to degrade aromatic compounds.		11-2007)	
9.	Development of process parameters for large scale commercial cultivation of *Rhodospirillum rubrum*	**SOM-phytopharma**	2 months (11-07-2007 to 10-9-2007	1,80, 000-
10.	Molecular and cultured diversity of anoxygenic phototrophic bacteria of Chilika lagoon: genetically and on the basis of pure cultures	**MoES**	3 Years (01-04-2007 to 31-03-2010)	23,64,000/-
11.	Cultured diversity of anoxygenic phototrophic rhizobacteria of paddy: Their geographical distribution, localization of species and plant growth promoting activity	**DST**	3 Years (01-04-2007 to 31-03-2010)	25,51,000/-
12.	Mapping of marine green sulfur bacteria of India	**DBT**	3 Years (06-02-09 to 05-02-12)	36,32,000/-
13	Cultured and genetic diversity of Heliobacteria of cultivated soils of India	**UGC**	3 Years (1-7-2011 to 31-12-2014)	12,75,560/-
14	Inventory and bioprospecting of spirochetes of marine habitats of India	**DBT**	3 Years (16-11-2011 to 15-10-2014)	76,10,000/-
15	Marine anaerobic bacterial diversity for the production of antimicrobials	**MoES**	3 years (18-7-2013 to 31-3-2017)	40,000,00/-
16	Bacterial hopanoids as chemotaxonomic markers: A study on the genus *Rhodovulum*	**TEQIP**	15 months (December, 2015 to March, 2017)	2,00,000/-
17	Petroleum hydrocarbon (PTH) degrading bacterial diversity and their potential application in bioremediation of petroleum contaminated sites	**TEQIP**	15 months (Dec 2015 to March, 2017)	2,00,000/-
ONGOING PROJECTS				
18	Ecology of Halo-Anoxygenic phototrophic bacteria of marine habitats of Gujarat	**MoES**	3 years (November, 2014-June, 2018	47,05,100/-
19	Biodegradation of Pharmaceuticals	**UGC**	2 years (	10,000,00/

	and Personal Care Products (PPCPs): PPCP degrading bacterial diversity and their potential application in the wastewater treatment	**(midcareer award grant)**	2018- 2020)	

- **Patents taken, if any : Indian, 4 (pregranted)**

1) Ramaprasad, E.V.V., Sasikala, Ch. & Ramana, Ch.V: A process for extraction of neurosporene from a novel phototrophic bacterium *Rhodobacter viridis* JA737 ^{T} and utilisation there of. (4196/ CHE/2012A). Reply to FER filed.

2) Ramaprasad, E.V.V., Sasikala, Ch. & Ramana, Ch.V: A microbiological method using marine water for the production of neurosporene from a marine bacterium *Rhodovulum* sp. JA756^{T} and compositions containing the said pigment and process for making the same (4961/CHE/2012A). Reply to FER filed.

3) Ramaprasad, E.V.V., Sasikala, Ch. & Ramana, Ch.V: A process for the isolation and purification of lycopene from *Rhodospirillum sulfurexigens* JA 143^{T} and *Rhodospirillum oryzae* JA 318T and utilization there of (4962/CHE/2012A). Reply to FER filed.

4) Ramaprasad, E.V.V., Sasikala, Ch. & Ramana, Ch.V: Phototrophic Purple Bacteria as Dietary Supplements and as medicaments for reducing Total blood cholesterol, Triglycerides, LDL Cholesterol and feed compositions containing them. (4276/CHE/2013A).

RESEARCH WORK CARRIED OUT

Studies on bacterial diversity

Enumerated, isolated, characterized and identified different groups of bacteria from diverse habitats of India

- Total bacterial isolates : ~1800
- Pure cultures : 560
- 16S rRNA gene sequenced : 1200
- Species identified as novel taxa : 136
- Species names validly published : 118 (23)
- Novel genera described : 19 (2)

- Novel Family described : 1(1)
- New Order described : 1
- Emended description of Genus : 15
- Reclassifications : 27
- Generated FTIR fingerprinting library : 90
- Bacterial whole genome sequenced : 10(143)

- So far deposited about 150 type strains of purple sulfur, green sulfur purple non-sulfur and chemotrophic bacteria with Microbial Type Culture Collection, India (MTCC), American Type Culture Collection (ATCC), German Culture Collection Centre (DSMZ), Japanese collection of microorganisms (JCM) and CCUG (culture collection of University of Goteborg), NBRC (Japan) KCTC (Korea)

- Discovered that the colour of the "Pink pond of Hyderaad", the Noor Mohammed Kunta is because of the presence of a purple sulfur bacterium, *Thiocapsa roseopercisina* and not because of dyes in the effluents of textile industry being let out into the lake, as widely believed.
- Studied in detail the metabalomes and heterogeneity in *Rhodobacter sphaeroides*
- Preparing Libraries of carotenoids, fatty acids, hopanoids and lipids of purple phototrophic bacteria

New methods developed:

- Developed novel inexpensive method for isolation and enumeration of anaerobic bacteria
- Developed novel methods for selective enrichment of green sulfur bacteria
- Developed a rapid and inexpensive typing method for screening anoxygenic phototrophs based on FT-IR spectroscopy which considers the whole cell metabolomes

Methods newly applied for resolving taxonomic conflicts.

- MLSA barcoding of purple bacteria for resolving taxonomic conflicts
- Catabolite barcoding of bacteria in polyphasic taxonomy
- Use of metabolome analysis for description of novel bacterial taxa.

Biotechnological potentials:

- Production of hydrogen as an eco-friendly fuel from microbial biomass of purple non-sulfur bacteria was demonstrated in a lab scale photoreactor using industrial effluents and optimized various parameters required for its production.
- Production of other eco-friendly products viz. Biodegradable polyesters and herbicides from purple bacteria was attempted and extensive review articles were published.
- Bacterial mortar and bacterial concrete casting using *Bacillus subtilis* has resulted in enhanced compressive strength, durability.
- Mass cultivation of purple bacteria
- Carotenoid production from purple nonsulfur bacteria (Neurosporene from *Rhodobacter viridis* and *Rhodovulum viridis; lycopene from Rhodospirillum sulfurexigens)*
- Hypolipidemic effect of certain purple bacteria demonstrated in mice experiments.
- Bacterial inocula development for bioremediation of thiophene-2-carboxylate.
- Bacterial consortia for oil bioremediation in marine waters.
- anoxygenic photrophic bacteria for bioremediation of aquaculture ponda and as probiotics
- 4 Indian paptents pregranted.
- Biocontrol agents from bacteria for algal biofilms.

Bacterial catabolomics:

- Studies on the Biodegradation and metabolism of hazardous homocyclic aromatic compounds under anaerobic conditions by purple non-sulfur bacteria were carried out mainly on the nitro, halo and hydroxyl derivatives. Metabolism of sulfonated aromatics is also studied in purple sulfur bacteria.

- Biotransformation of nitrogen containing and heterocyclic aromatic compounds to value added products like anti cancer compounds and plant growth promoting substances.

- metabolism and toxicity of heterocyclic aromatic compounds on purple bacteria studied with reference to indoles, pyridine and pyrazinoic acid.

- Discovery of novel metabolites, metabolic pathways and enzymes

Major metabolite discovery

- **a)** Indole terpenoid conjugates (54 novel molecules identified & 4 fully characterized)
- **b)** Phenol terpenoid conjugates (13 novel molecules identified &
- 2 fully characterized)
- **c)** Phenolics (8)
- d) Indolics (18)
- e) Carotenoid glycoside conjugates (2; hydroxylycopene glycoside; Dihydroxylycopene diglycoside)
- **f)** Unique BChl-protein complexes (3)
- **g)** ω Fatty acids (14)
- **h)** Hydropyrazines(3)
- **i)** carotenoids (6)
- k)Others (8)

Enzyme discovery

- Enzyme discovery: 8 (5 novel)
- EC numbers granted for 3 novel enzymes (DOPA reductive deaminase [EC: 4. 1. 3. 22]; DOPA aminotransferase [EC: 2.6.1.99]; DOPA oxidative deaminase [EC: 4.1.3.-]

Novel pathway discovery: 6

- Anthranilate to indole by fumarate conjugation
- Fumarate dependent Isopentanyl pyrophosphate (IPPO synthesis
- Terpenoid dependent conjugative detoxification of aromatic
- hydrocarbons
- Tryptophan amino lyse (WAL) dependent catabolic pathway of Ltryptophan
- Reductive catabolism of pyrazines 2-carboxylate

- ☞ DOPA and DOPP pathway for L-phenylalanine/L-tyrosine catabolism

Bioprospecting

Bioprospecting for novel antioxidants, phytohormones and anticancer metabolites from anoxygenic phototrophic bacteria has resulted in the discovery of potent phytohormones; COX-2 inhibitors and compounds with cytotoxicity against cancer cell lines.

- ☞ Rhodestrin [phytohormonal activity (0.05 umol)]
- ☞ Sphestrin (antimicrobial activity)
- ☞ Rhodethrin [Phytohormonal activity (0.05μmol)], cytotoxicity[Sup-TI, Jurkat cells & Colo-125;20 pico mol], COX-2 [45%] inhibitory activity]
- ☞ Rhodophestrol [cytotoxicity (U937 cell lines; 50 nmol], COX-1 (50%), COX-2(20%) inhibitory activity]
- ☞ Okenone and lycopene from bacteria showed antioxidant and anti cancer activity
- ☞ *Blastochloris gulmargensis* hypolipidemic effect

Bacterial genomics:

Whole genome sequence several strains published and a large number under process.

Genome analysis integrated into polyphasic taxonomy of prokaryotes

Commercialisation of process/products:

Microbial cultures released for commercialization

- *Rhodopseudomonas palustris* for biodegradation of municipal solid waste & fruit waste (M/S Biovision crop sciences, Bhimavaram)

- *Rhodobacter spheroides* for plant growth promotion. (A start up company)

- Several phototrophic bacteria (*Marichromatium gracile, Rhodvulum* sp., *Rhodobacter* sp.) as Bioremediation agents and probiotics for aquaculture (M/S Varvee Herbs private limited, Bhimavaram)

- *Marichromatium indicum,* JA 100 being used for aquaculture ponds as probiotic and for environmental management (M/s. Growell formulations, Hyderabad).

- *Rhodobacter sphaeroides* as biofertilizer (M/S Gene 7 Biotech, Hyderabad)

Commercial media formulation

- For the mass cultivation of *Rhodospirillum rubrum* for use by M/s. SOM Phytopharma, Hyderabad

(a) **Number of Technologies developed** : 14 (Fourteen)

1. Technology used for mass cultivation of phototrophic bacteria in photobioreactors.
2. Formulation of bugs for sludge treatment to remove toxic gases.
3. Formulation of bugs as probiotics for aquaculture
4. Formulation of bugs as bioremediation agents for aquaculture ponds
5. Formulation of bugs for biodegradation of municipal solid waste.
6. Formulation of bugs as bioremediation agents for poultry litter.
7. Formulation of bugs for treatment of oil contaminated marine environments.
8. Production of bacterial neurosporene, an antioxidant
9. Production of bacterial lycopene, a neutraceutical
10. A probiotic formulation which is useful in lowering blood cholesterol and triglycerides.
11. Formulation of bugs as algaecide (In progress)
12. Production of bacterial okenone, an anti-inflammatory drug (In progress)
13. Bugs for producing Bio-halites, multi-mineral salt (In progress)

14. Process for producing bacterial anthocyanins and flavonoids (In progress)

(b) Number of Technologies transferred to industry : 6 (Six)

1. Transferred the technology of mass cultivation of *Rhodospirillum rubrum* to M/s. SOM Phytopharma, Hyderabad the biomass of which is being exported to Europe.
2. Formulation of bugs for sludge treatment to remove toxic gases to M/S Varvee herbs, Bhimavaram
3. Formulation of bugs as probiotics for aquaculture to m/s Envozyme LLC, USA
4. Formulation of bugs as bioremediation agents for aquaculture ponds to M/s Growell formulations private limited, Hyderabad
5. Formulation of bugs as bioremediation agents for poultry litter M/s Biovision Crop sciences, Bhimavaram
6. Formulation of bugs for biodegradation of municipal solid waste M/s Ava biotech
7. Formulation of biofeertilizer to M/S Gene 7 Biotech, Hyderabad.
8. Formulation of bugs for toxic algal control to M/S Envozyme, Hyderabad.

(c) **Number of Technologies commercialized**: 9

1. Bugs for the treatment of sludge is commercialized as “Sludge Magic”
2. Bugs used as probiotics for aquaculture is commercialized as “Multezyme-P”
3. Bugs used as soil probiotics is commercialized as “Eco Fresh”
4. Bugs used for the treatment of municipal waste is commercialized as “Micro-treat”
5. Bugs used for treatment of poultry litter as “Microtreat P”.
6. Bugs for use as aquaculture probiotic as “Gen – PS”.
7. Bugs used for septic tank treatment as “Microsep”.
8. Bugs for use as water and soil probiotic as “Pro-360”.
9. Bugs for toxic algal control as “Microgreen”.

Research publications

Research publications: 199 published. (In standard refereed journals).
Cumulative impact factor: 450
h index: 28;
Number of citations: ~3,000

LIST OF PUBLICATIONS (in standard refereed journals)

S. o	Author	Title	Journal	Year
207	Tushar, l., Indu Basist, Sasikala, Ch. and Ramana, Ch. V	Hopanoids confederate in the membrane transport, chemotaxis and signal transduction in *Rhodopseuodomonas palustris*	DNA Research (DNAR-2017-238) (communicated)	2018
206	Varshini, V., Suresh, G., Sasikala, Ch. and Ramana, Ch. V	Description of *Natronococcus terrae* sp. nov	Antonie von Leeuwenhoek J microbiol. (ANTO-D-17-00482)	2018
205	Lakshmi, KVNS, Sasikala, Ch. and Ramana, Ch. V	Insights into the carbonic anhydrases and autotrophic carbon dioxide fixation pathways of high CO_2 tolerant *Rhodovulum viride* JA756 Corresponding author: Professor Venkataramana Ch	Microbiological research (MICRES_2018) Under revision	2018
204	Gupta, Deepshikha; Mohammed, Mujahid; Mekala, Lakshmi; Chintalapati, Sasikala; Chintalapati, Venakata.	Proteomic insights into the glucose induced viable but non-culturable (VBNC) state in a phototrophic bacterium, *Rubrivivax benzoatilyticus* JA2	Journal of Proteome Research (revised MS submited) Manuscript ID: pr-2017-007734	2018
203	Suresh G; Sasikala Ch; Ramana Ch.V., Ph.D	Genome-based reclassification of Rhodobacter megalophilus Arunasri et al. 2008, as a later heterotypic synonym of Rhodobacter sphaeroides (van Niel 1944) Imhoff et al. 1984 and emended description of Rhodobacter sphaeroides	Int. J. Syst. Evol. Microbiol. Ms. No. IJSEM-D-18-00282	2018
202	Suresh, G., Tushar, L., Sasikala, Ch. and Ramana, Ch. V	*Rhodobacter alkalitolerans* sp. nov. isolated from an alkaline brown pond.	Archives of microbial. (accepted) ANTO-D-17-00079	2018
201	Vishnuvardhan Reddy, S., Ramprasad, E.V.V., Subhash, Y., Sasikala, Ch. & Ramana, Ch.V	*Texicoconibacillus haloalkaliphilus* gen. nov., sp. nov., isolated from a soda lake	Int. J. Syst. Evol. Microbiol. (under revision)	2018
200	Prathyash Ushus, M. J., Sasikala, Ch., Bharti P. Dave and Ramana, Ch.V.	*Afifella lacus* sp. nov., a phototrophic bacterium isolated from a saltwater pond	Int. J. Syst. Evol. Microbiol. (Under revision)	2018
199	Ramprasad, EVV., Ganesh, M. Sasikala, Ch and Ramana, Ch.V.	*Rhodococcus electrodiphila* sp. nov., a marine electrogenic actinobacterium isolated from a coral reef	Int. J. Syst. Evol. Microbiol. (under revision) [EMID:68185931b3bc4656]	2018
198	Chintalapati Venkata Ramana, Subhash Yadav, Radha Vaddavalli, Srinivas Siripuram, Ramaprasad Eedara Veera Venkata, Shivani Yadav, Ojha Rabishankar, Tushar Lodha, and	*Planctopirus hydrillae* sp. nov., an antibiotic producing Planctomycetes isolated from the aquatic plant Hydrilla and its whole genome short gun sequence analysis	Journal of Antibiotics (accepted)	2018

	Sasikala Chintalapati.			
197	Lakshmi Prasuna, Mujahid, Sasikala,ch and Ramana, Ch.V	Stable isotope-assisted metabolic profiling reveals growth mode dependent differential metabolism and catabolic multitasking of L-phenylalanine in *Rubrivivax benzoatilyticus* JA2	Journal of Proteome Research, Accepted (Manuscript ID pr-2017-005008)	2018
196	Divyasree, B., Suresh, G., Sasikala, Ch. and Ramana, Ch.V	*Chryseobacterium salipaludis* sp. nov., isolated from wild ass sanctuary, Gujarat, India	Int. J. Syst. Evol. Microbiol. 68 542-546	2018
195	Hitarth B. Bhatt, M. Azmatunnisa Begum, Sasikala Chintalapati, Venkata Ramana Chintalapati and Satya P. Singh	*Desertibacillus haloalkaliphilus* gen. nov. sp. nov., isolated from a saline desert	Int. J. Syst. Evol. Microbiol. 67, 4435-4442	2017
194	Vishnuvardhan Reddy Sultanpuram, Thirumala Mothe, Sasikala Chintalapati, Venkata Ramana Chintalapati	*Bacillus alcaliphilum* sp. nov., a bacterium isolated from a soda lake.	*Arch. Microbiol.* 199, 1303–1309	2017
193	Shivani., Y, Subhash., Y., Sasikala, Ch and Ramana, Ch. V.	Characterisation of a newly isolated member of a candidatus lineage, *Marispirochaeta aestuarii* gen. nov. sp. nov.	Int. J. Syst. Evol. Microbiol. 67, 3929-3936	2017
192	Suresh, G., Sailaja, B., Asif, A Sasikala, Ch. and Ramana, Ch. V	*Rhodobacter azollae* sp. nov., *Rhodobacrer lacus,* sp. nov.	Int. J. Syst. Evol. Microbiol. 67, 3289-3295	2017
191	Prathyash Ushus, M. J., Divyasree, B., Lakshmi, K.V.N.S., Bharti P. Dave., Sasikala, Ch. & Ramana, Ch.V.	Description of a phototrophic bacterium *Thiorhodococcus alkaliphilus* sp. nov.	Int. J. Syst. Evol. Microbiol. 67, 2306-2311.	2017
190	Vishnuvardhan Reddy Sultanpuram; Thirumala Mothe; Sasikala Chintalapati; Venkata Ramana Chintalapati	*Nesterenkonia cremea* sp., nov., a bacterium isolated from a soda lake	Int. J. Syst. Evol. Microbiol. 67, 1861-1866	2017
189	Mahidhara, G., Sasikala, Ch and Ramana, Ch.V.	Comparative metabolomic studies of *Alkanivorax xenomutans* showing differential power output in a 3 chambered microbial fuel cell	World Journal of Microbiology and Biotechnology. 33, 102-	2017
188	Y, Shivani., Y, Subhash., Ch, Sasikala. and Ch.V, Ramana.	Description of *Halodesulfovibrio spirochaetisodalis* gen. nov. sp. nov. and reclassification of few species of *Desulfovibrio.*	*Int. J. Syst. Evol. Microbiol.* 67, 87-93.	2017

187	Y, Shivani., Y, Subhash, Ch, Sasikala. and Ch.V, Ramana.	Description of 'Candidatus Marispirochaeta associata' and reclassification of *Spirochaeta bajacaliforniensis, Spirochaeta smaragdinae* and *Spirochaeta sinaica* to a new genus *Sediminispirochaeta* gen. nov. as *Sediminispirochaeta bajacaliforniensis* comb. nov., *Sediminispirochaeta smaragdinae* comb. nov. and *Sediminispirochaeta sinaica* comb. nov.	Int. J. Syst. Evol. Microbiol. 66, 5485–5492	2016
186	Divyasree, B, Srinivas, A, Sasikala, Ch and Ramana, Ch.V.	Description of *Lunatimonas salinarum* sp. nov.	Int. J. Syst. Evol. Microbiol. 66, 5223–5227	2016
185	Srinivas, A., Divyasree, B.,Sasikala, Ch., Tushar, L., Dave Bharti &Ramana, Ch.V.	Description of *Jeotgalibacillus alkaliphilus* sp. nov., isolated from a solar salt pan, and *Jeotgalibacillus terrae* sp. nov., a name to replace 'Jeotgalibacillus soli' Chen et al. 2010	Int. J. Syst. Evol. Microbiol. 66, 5167–5172	2016
184	SV Reddy, M Thirumala, M Farooq, C Sasikala	*Marinicoccus salis* sp., nov., a moderately halophilic bacterium isolated from a salt marsh	Archives of Microbiology, 198, 1013-1018.	2016
183	Vishnuvardhan Reddy S; Thirumala M; Sasikala Ch; Venkata Ramana Ch	*Tersicoccus solisilvae* sp., nov., a bacterium isolated from forest soil	*Int. J. Syst. Evol. Microbiol.* 66, 5061-5065,	2016
182	Azmatunnisa Begum, M., Varshini, V., Rahul, K., Chandana, A., Sasikala, Ch. and Ramana, Ch.V.	Description of *Alteribacillus alkaliphilus* sp. nov., reassignment of *Bacillus iranensis* (Bagheri *et al*. 2012) as *Alteribacillus iranensis* comb. nov. and emended description of the genus *Alteribacillus*.	*Int. J. Syst. Evol. Microbiol.* 66, 4772-4778.	2016
181	Ramaprasad E.V.V.; Rizvi A; Benerjee S; Sasikala Ch; Ramana Ch.V.	*Mycobacterium oryzae* sp. nov., a scotochromogenic, rapidly growing species and could infect human macrophage cell line	Int. J. Syst. Evol. Microbiol. 66, 4530-4536	2016
180	Vishnuvardhan Reddy, S., Thirumala, M., Sasikala, Ch & Ramana, Ch.V.	*Pontibacillus salipaludis* sp., nov., a moderately halophilic bacterium isolated from a salt pan.	Int. J. Syst. Evol. Microbiol. 66, 3884-3889	2016
179	Srinivas, A., Divyasree, B., Tushar, L., Sasikala, Ch. &Ramana, Ch.V.	*Salinicoccus amylolyticus* sp. nov., isolated from a saltern.	Int. J. Syst. Evol. Microbiol. 66, 3814-3820.	2016
178	Ramaprasad E.V.V.; Tushar L; Bharti Dave; Sasikala Ch; Ramana Ch.V.	*Rhodovulum algae* sp. nov., isolated from an algal mat	Int. J. Syst. Evol. Microbiol. 66, 3367-3371.	2016

177	Sadaf, K., Tushar, L., Nirosha, P., Podile, A.R., Sasikala, Ch. & Ramana, Ch.V.	*Paenibacillus arachidis sp. nov*., isolated from groundnut seeds.	Int. J. Syst. Evol. Microbiol. 66, 2923-2928	2016
176	T. S. Sasi Jyothsna, L. Tushar, Ch. Sasikala, Ch. V. Ramana	Erratum to *Paraclostridium benzoelyticum* gen. nov. sp. nov., isolated from marine sediment and reclassification of *Clostridium bifermentans* as *Paraclostridium bifermentans* comb. nov. Proposal of a new genus *Paeniclostridium* gen. nov. to accommodate*Clostridium sordellii* and *Clostridium ghonii*	Int. J. Syst. Evol. Microbiol. 66, 2459-2459	**2016**
175	Sasi Jyothsna, T.S., Tushar, L., Sasikala, Ch. & Ramana, Ch.V.	*Paraclostridium benzoelyticum* gen. nov. sp. nov., isolated from marine sediment and reclassification of *Clostridium bifermentans* as *Paraclostridium bifermentans* comb. nov. Proposal of a new genus *Paeniclostridium* gen. nov. to accommodate *Clostridium sordelii* and *Clostridium ghonii*	Int. J. Syst. Evol. Microbiol. **66**, 1268-1274	2016
174	Sasikala, Ch, Sravanthi T., Tushar L. & Ramana, Ch.V.	*Alkalispirochaeta cellulosivorans* gen. nov., sp. nov., a cellulose-hydrolysing, alkaliphilic, halotolerant bacterium isolated from the gut of a wood-eating cockroach (Cryptocercus punctulatus), and reclassification of four species of Spirochaeta as new combinations within Alkalispirochaeta gen. nov.	Int. J. Syst. Evol. Microbiol. 66, 1612-1619.	**2016**
173	M. Azmatunnisa, K. Rahul, Ch. Sasikala, & Ch.V. Ramana	*Lysinibacillus xyleni* sp. nov., isolated from a bottle of xylene	Arch. Microbiol. **198**, 325-332.	2016
172	Divyasree, B., Lakshmi, K.V.N.S., Bharti Dave., Sasikala, Ch. & Ramana, Ch.V.	*Rhodovulum aestuarii* sp. nov., isolated from a brackish water body	Int. J. Syst. Evol. Microbiol. 66, 165-171 doi: 10.1099/ijsem.0.000691	2016
171	Vishnuvardhan Reddy Sultanpuram; Thirumala Mothe; Sasikala Chinthalapati; Venkata Ramana Chinthalapathi	*Pelagirhabdus alkalitolerans* gen. nov. sp. nov., a novel alkali and thermo tolerant bacterium isolated from Pingaleshwar beach, India and reclassification of *Amphibacillus fermentum* as *Pelagirhabdus fermentum* comb. nov.	Int. J. Syst. Evol. Microbiol. 66, 84-90 doi: 10.1099/ijsem.0.000678	2016
170	Vishnuvardhan Reddy Sultanpuram; Thirumala Mothe; Sasikala Chinthalapati; Venkata Ramana Chinthalapathi	*Cellulosimicrobium aquatile* sp. nov., isolated from Panagal reservoir, Nalgonda, India	Antonie van Leeuwenhoek 108:1357-1364 DOI 10.1007/s10482-015-0588-y	2015

169	Ramaprasad E.V.V.; Dave Bharti, Sasikala Ch; Ramana Ch.V.	*Zooshikella marina* sp. nov. isolated from beach sand	Int. J. Syst. Evol. Microbiol. 65: 4669-4673 doi: 10.1099/ijsem.0.000630	2015
168	Ramaprasad E.V.V.; Sasikala Ch.; Ramana Ch.V.,	*Ornithinimicrobium algicola* sp. nov., a marine actinobacterium isolated from the green alga Ulva sp.	Int. J. Syst. Evol. Microbiol. 65 :4627-31 doi: 10.1099/ijsem.0.000624.	2015
167	Sravanthi T., Tushar L., Sasikala, Ch. & Ramana, Ch.V.	*Spirochaeta odontotermitis* sp. nov., a novel obligately anaerobic cellulolytic haloalkaliphilic spirochaete isolated from the termite, *Odontotermes obesus*	Int. J. Syst. Evol. Microbiol. 65:4589-94 (doi: 10.1099/ijsem.0.000616.)	2015
166	Parag, B. Sasikala, Ch. and *Ramana, Ch. V.	*Bacillus endolithicus* sp. nov., isolated from pebbles	Int. J. Syst. Evol. Microbiol. 65: 4568-4573 (in press, doi: 10.1099/ijsem.0.000612.)	2015
165	Sultanpuram Vishnuvardhan Reddy; Mothe Thirumala; Chintalapati Sasikala; Chintalapati Venkata Ramana	*Salibacterium halotolerans* gen. nov. sp. nov., a novel bacterium isolated from a salt pan and reclassification of *Bacillus qingdaonensis* as *Salibacterium qingdaonense* comb. nov.	Int. J. Syst. Evol. Microbiol. 65: 4270-4275 doi: 10.1099/ijsem.0.000572.	2015
164	Lakshmi, K.V.N.S., Divyasree, B., Sucharita, K., Sasikala, Ch. & Ramana, Ch.V.	*Thiorhodococcus fuscus* sp. nov., isolated from a lagoon	Int. J. Syst. Evol. Microbiol. 65: 3938-3943 doi: 10.1099/ijsem.0.000517	2015
163	Ramaprasad E.V.V.; Sasikala Ch; Ramana Ch.V.	*Roseomonas oryzae* sp. nov., isolated from paddy rhizosphere soil	Int. J. Syst. Evol. Microbiol. 65: 3535-3540 (in press doi: 10.1099/ijsem.0.000449.,)	2015
162	Ranjith Kumavath, Ch. Sasikala, Ch. V Ramana and Azevedo, V.A.C	Isolation and Characterization of L-Tryptophan Ammonia Lyase from *Rubrivivax benzoatilyticus* Strain JA2	Curr Protein Pept Sci. 16:775-81.	2015
161	Ramaprasad E.V.V.; Sasikala Ch; Ramana	*Flectobacillus rhizosphaerae* sp. nov. isolated from the rhizosphere soil of Oryza sativa (L.)	Int. J. Syst. Evol. Microbiol	2015

	Ch.V.	and emended description of the genus *Flectobacillus*	65:3451-6.	
160	Tushar, DL., Srinivas, A., Sasikala, Ch. & Ramana, Ch.V.	Hopanoid inventory of *Rhodoplanes* spp.	Arch. Microbiol 197, 861-867	2015
159	Divyasree, B., Lakshmi, K.V.N.S., Bharti Dave., Sasikala, Ch. and Ramana, Ch.V.	*Caenispirillum deserti* sp. nov., a spheroplast forming bacterium isolated from a salt desert (Rann) of Kutch	Int. J. Syst. Evol. Microbiol. 65:3119-24.	2015
158	Parag, B., Sasikala, Ch., & Ramana, Ch.V.	*Barrientosiimonas endolithica* sp. nov., isolated from pebbles; Reclassification of the only species of the genus *Tamlicoccus*, *Tamlicoccus marinus* (Lee, 2013) as *Barrientosiimonas marinum* comb. nov. and emended description of the genus *Barrientosiionas*	Int. J. Syst. Evol. Microbiol. 65:3031-6.	2015
157	Shivani, H, Subash, Y., Bharti, P. Dave., Sasikala, Ch & Ramana, Ch.V.	*Bacillus crescens* sp. nov. isolated from a soil	Int. J. Syst. Evol. Microbiol. 65:2531-6.	2015
156	K. Rahul., M. Azmatunnisa., Ch. Sasikala and Ch. V. Ramana	*Hoeflea olei* sp. nov., a diesel-oil degrading aerobic anoxygenic phototrophic bacterium isolated from backwaters and emended description of the genus *Hoeflea*	Int. J. Syst. Evol. Microbiol. 65:2403-9.	2015
155	Azmatunnisa, M., Rahul, K, Lakshmi, K.V.N.S.., Sasikala, Ch. and Ramana, Ch.V[2]	*Lysinibacillus acetophenoni* sp. nov., a solvent tolerant bacterium isolated from acetophenone	Int. J. Syst. Evol. Microbiol. 65:1741-8	2015
154	Tushar, Sasi Jyothsna, Sasikala, Ch and Ramana, Ch.V	Draft Genome Sequence of an Antimicrobial-Producing *Clostridium* sp. JC272, Isolated from a marine Sediment.	Genome Announc. 2015 3(3): e00650-15. . doi: 10.1128/genomeA.00650-15	2015
153	Mujahid, Md; Prasuna, M; Ch, Sasikala; Ch, Ramana	Integrated metabolomic and proteomic analysis reveals systemic responses of *Rubrivivax benzoatilyticus* JA2 to aniline stress	Journal of Proteome Reserch 14: 711-727. doi: 10.1021/pr500725b.	2015 (4.17)
152	Azmatunnisa M; Rahul K; Subhash Y; Sasikala Ch; Venkata Ch. Ramana,	*Bacillus oleivorans* sp. nov., a diesel-oil degrading and solvent tolerant bacterium	Int. J. Syst. Evol. Microbiol. 65, 1310-131	2015
151	Tushar, L., Sravanthi, T., Sasikala, Ch & Ramana, Ch.V.	Draft genome sequence of *Spirochaeta* sp. strain JC202, an endosymbiont of the termite (*Isoptera*) gut.	Genome Announcements 3, 1-2.	2015 (1.18)

150	Suresh, G., Ch. Sasikala; Venkata Ch. Ramana, Ph.D	Reclassification of *Gemmobacter changlensis* to a new genus as *Cereibacter changlensis* gen. nov., comb. nov.	Int. J. Syst. Evol. Microbiol. 65:794-8. doi: 10.1099/ijs.0.000016.	2015
149	Shivani Y, Subhash Y, Tushar D. Lodha, Sasikala Ch and Ramana Ch.V.	*Spirochaeta luteus* sp. nov isolated from marine habitats	Syst. Appl. Microbiol. 38, 110-114	2015
148	Vishnuvarardhan Reddy, S., Thirumala, M., Farooq, M., Sasikala, Ch. & Ramana, Ch.V.	*Bacillus lonarensis* sp. nov., an alkalitolerant bacterium isolated from a soda lake.	Arch. Microbiol. 197, 27-34	2015
147	Subhash Y, Sasikala Ch, and Ramana, Ch.V.	*Hymenobacter roseus* sp. nov., isolated from sands of Himalayan region	Int. J. Syst. Evol. Microbiol. 64, 4129-4133	2014
146	L. Tushar; Ch. Sasikala; Ch. V. Ramana	Draft genome sequence of *Rhodomicrobium udaipurense* JA643^T with special reference to hopanoid biosynthesis	DNA research 1-9 doi: 10.1093/dnares/dsu026	2014 (5.26)
145	Kamidi Rahul, Sasikala Ch, Tushar L, Debadrita Roy, and Ramana Ch	*Alcanivorax xenomutans sp. nov.,* a hydrocarbonoclastic bacterium isolated from a shrimp pond	Int. J. Syst. Evol. Microbiol. 64, 3553-3558	2014
144	Lakshmi K.V.N.S., Divyasree B, , Sasikala Ch, and Ramana Ch.V.	*Thiophaeococcus fuscus sp. nov*., isolated from a lagoon	Int. J. Syst. Evol. Microbiol. 64, 2528–2533 DOI 10.1099/ijs.0.062182-0	2014
143	Subhash Y, Sasikala Ch, and Ramana Ch.V.	*Sphingopyxis contaminans sp. nov*., isolated from a contaminated Petri dish	Int. J. Syst. Evol. Microbiol. 64, 2238-2243	2014
142	Srinivas A, Sasikala Ch, and Ramana Ch.V	*Rhodoplanes oryzae sp. nov*., a phototrophic alphaproteobacterium isolated from the rhizosphere soil of paddy	Int. J. Syst. Evol. Microbiol 64, 2198-2203 doi:10.1099/ijs.0.063347-0	2014
141	Subhash Y, Sasikala Ch, and Ramana ChV	*Bacillus luteus sp.* nov., isolated from a soil	Int. J. Syst. Evol. Microbiol. 64, 1580-1586	2014
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138	Subhash, Y., Sasikala Ch. & Ramana Ch.V	*Salinimicrobium sediminis* sp. nov., isolated from a sea sediment	Int. J. Syst. Evol. Microbiol. 64, 986-988.	2014
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136	Mujahid Mohammed, Sasikala Ch, Ramana V.Ch	Aniline is inducer, and Not a Precursor, for Indole Derivatives in *Rubrivivax benzoatilyticus* JA2	PLOS one 9, 1-10 e87503	2014 (IF 4.17)
135	Parag B, Sasikala Ch, Ramana ChV.	Molecular and culture dependent characterization of endolithic bacteria in two beach sand samples and description of *Rhizobium endolithicum* sp. nov.	Ant. Van. Leeuwenhook J. Microbiol. 104: 1235-1244 Doi;10.1007/710482-03-0046-7	2013 (IF 2.072)
134	Ramana, Ch.V., Srinivas, A., Subash, Y., Tushar, L., Mukherjee, T., Usha, P. and Sasikala, Ch.,	*Salinicoccus halitifaciens* sp. nov., a novel bacterium participating in halite formation	Ant. Van. Leeuwenhook J. Microbiol. 103:885-98. doi: 10.1007/s10482-012-9870-4	2013 (IF 2.072)
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132	Mujahid, M, Arvind , Lakshmi Prasuna, Rama Prasad EVV , Sasikala.Ch, Venkata Ramana Ch.	Carbon catabolite repression independent and pH dependent production of indoles by *Rubrivivax benzoatilyticus* JA2	Current Microbiol. 67:399–405 DOI 10.1007/s00284-013-0378-6	2013 (IF 1.520)
131	Ramprasad, E.V.V., Sasikala, Ch. & Ramana, Ch.V.	Neurosporene is the major carotenoid accumulated by *Rhodobacter viridis* JA737^T	Biotechnol. Lett. 35:1093–1097 DOI 10.1007/s10529-013-1181-y	2013 (IF- 1.853)
130	T. S. Sasi Jyothsna, K. Rahul, E. V. V. Ramaprasad, Ch. Sasikala and Ch. V. Ramana	*Arcobacter anaerophilus* sp. nov., isolated from an estuarine sediment and emended description of the genus *Arcobacter*	Int. J. Syst. Evol. Microbiol. 63, 4619–4625 Doi:10.1099/ijs.0.054155-0	2013 (IF 2.11)

129	Y. Subhash,1 L. Tushar,1 Ch. Sasikala2 and Ch. V. Ramana1	*Erythrobacter odishensis* sp. nov. and Pontibacter odishensis sp. nov. isolated from dry soil of a solar saltern	Int. J. Syst. Evol. Microbiol. 63, 4524–4532 Doi:10.1099/ijs.0.052183-0	2013 (IF 2.11)
128	R. Kathiravan, S. Jegan, V. Ganga, V. R. Prabavathy, L. Tushar, Ch. Sasikala and Ch. V. Ramana	*Ciceribacter lividus* gen. nov., sp. nov., isolated from rhizosphere soil of chick pea (*Cicer arietinum* L.)	Int J Syst Evol Microbiol. 63:4484-4488 Doi 10.1099/ijs.0.049726-0	2013 (IF 2.11)
127	Vishnuvardhan Reddy Sultanpuram, Tushar Dilipchand Lodha, Venkata Ramana Chintalapati and Sasikala Chintalapati,	*Cohaesibacter haloalkalitolerans* sp. nov., isolated from Lonar soda lake, India and emended description of the genus *Cohaesibacter*	Int. J. Syst. Evol. Microbiol. 63, 4271- 4276 doi: 10.1099/ijs.0.050112-0	2013 (IF 2.11)
126	Subash, Y., Sasikala.Ch, Venkata Ramana Ch.	*Flavobacterium aquaticum* sp. nov., isolated from a water sample of a rice field	Int. J. Syst. Evol. Microbiol. 63, *3463-3469* doi: 10.1099/ijs.0.050047-0	2013 (IF 2.11)
125	Y. Subhash, L. Tushar, Ch. Sasikala, Ch. V. Ramana	*Mongoliicoccus alkaliphilus* sp. nov. and *Litoribacter alkaliphilus* sp. nov. isolated from salt pans	Int. J. Syst. Evol. Microbiol. 63, 3457-3462 doi: 10.1099/ijs.0.049924-0	2013
124	Lakshmi KV, Sasikala C, Ramaprasad EV, Ramana CV	*Rhodospirillum oryzae* sp. nov., a phototrophic bacterium isolated from rhizosphere soil of paddy	Int. J. Syst. Evol. Microbiol 63,3050-3055 DOI:10.1099/ijs.0.049023-0	2013
123	V. Venkata Ramana., P. Shalem Raj., L.Tushar., Ch. Sasikala., Ch. V. Ramana	*Rhodomicrobium udaipurense* sp. nov., a psychrotolerant phototrophic alphaproteobacterium isolated from a fresh water stream	Int. J. Syst. Evol. Microbiol. 63, 2684-2689 doi:10.1099/ijs.0.046409-0	2013
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121	Subhash, Y., Tushar, L., Sasikala Ch. and Ramana Ch.V	*Vogsella alkaliphila* sp. nov., isolated from an alkaline soil, and emended description of the genus Vogsella	Int. J. Syst. Evol. Microbiol. 63:2338-2343 doi:10.1099/ijs.0.046300-0	2013

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116	Shalem Raj, P., Ramprasad, EVV., Vaseef, S., Sasikala, Ch. & Ramana, Ch.V.	*Rhodobacter viridis* sp. nov., a phototrophic bacterium isolated from Western Ghats of India	Int. J. Syst. Evol. Microbiol. 63: 181-186 Doi:10.1099/ijs.0.038471-0	2013
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54	Srinivas, T.N.R., Anil Kumar, P., Sasikala, Ch., Ramana, Ch.V. and Imhoff. J.F	Rhodobacter vinaykumarii sp. nov., a phototrophic Alphaproteobacterium from tidal waters, and emended description of the genus Rhodobacter	Int. J. Syst. Evol. Microbiol. 57: 2062-2066	2007
53	Anil Kumar, P., Srinivas, T.N.R., Sasikala, Ch., Ramana, Ch.V. and Imhoff, J.F	Rhodovulum visakapatnamense sp. nov.	Int. J. Syst. Evol. Microbiol. 57: 1762-1764	2007
52	Anil Kumar, P., T.S. Sasi Jyothsna, T.N.R. Srinivas, Sasikala, Ch., Ramana, Ch.V. and Imhoff, J.F	*Marichromatium bhemlicum* sp. nov., a non-diazotrophic, photosynthetic gammaproteobacterium from a marine aquaculture pond	Int. J. Syst. Evol. Microbiol. 57: 1261-1265	2007
51	Srinivas, T.N.R., Anil Kumar, P., Sasikala, Ch., Ramana, Ch.V.	*Rhodobium gokarnense* sp. nov., a novel phototrophic alphaproteobacterium from a saltern	Int. J. Syst. Evol. Microbiol. 57: 932-935	2007
50	Srinivas, T.N.R., Anil Kumar, P., Sasikala, Ch., Ramana, Ch.V.	*Rhodovulum imhoffii* sp. nov.,	Int. J. Syst. Evol. Microbiol. 57: 228-232	2007
49	Anil, K.P., Sasikala, Ch., and Ramana, Ch.V, Suling, J and Imhoff, J.F.	Selective enrichment of green sulfur bacteria in the presence of 4-aminobenzenesulfonate (sulfAnilate)	World J Microbiol. Biotechnol. 23: 393-399	2007
48	Ramana. V, Ch., Sasikala, Ch., Arunasri, K., Süling. J and Imhoff. J.F	*Rubrivivax benzoatilyticus,* sp nov., an aromatic hydrocarbon degrading betaproteobacterium isolated from paddy soil	Int. J. Syst. Evol., Microbiol. 56, 2157-2164	2006
47	Srinivas, T.N.R., Ani Kumar, P., Sasikala, Ch., Ramana, Ch.V., Suling, J and Imhoff, J.F	*Rhodovulum marinum* sp. nov., a new phototrophic purple nonsufur aphaproteobacterium from marine tides of Visakhapatnam, India	Int. J. Syst. Evo. Microbiol. 56: 1651-1656	2006
46	Vijay, S, Sunayana, M. R, Ranjith, N. K, Sasikala, Ch. and Ramana, Ch.V	Light-dependent transformation of aniline to indole esters by the purple bacterium, *Rhodobacter sphaeroides*, OU5.	Curr. Microbiol. 52, 413-417.	2006
45	Arunasri, K., Anil, K.P., Srinivas,T.N.R., Sasikala, Ch., and Ramana, Ch.V	Phototrophic proteobacteria: Diversity and biotechnological potentials	Microbial Diversity Current perspectives and potential applications. 917-932.	2005
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43	Sunayana, M.R., Sasikala, Ch. and Ramana, Ch	Production of a novel indole ester from 2-amino benzoate by *Rhodobacter sphaeroides* OU5	J. Industrial Microbiol. Biotechnol. 32:41-45	2005
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40	Archana, A., Sasikala, Ch. and Ramana, Ch.V	Augmentation of H_2 photoproduction in *Rhodopseudomonas palustris* JA1 by N-	Biotechnol. Lett. 25(1), 79-82.	2003

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39	Ramana, Ch. V. and Sasikala, Ch.	Light dependent reductive degradation of nitrobenzene by *Rhodopseudomonas palustris*.	Ind. J. Microbiol. 42, 229-232.	2002
38	Ch. Sasikala, A. Archana and Ch.V. Ramana	Occurrence of anoxygenic phototrophic bacteria in some paddy fields of Andhra Pradesh, India.	Indian J. Microbiol. 42, 169-171.	2002
37	Ch. Sasikala, K. Arunasri and Ch.V.Ramana	Photobiodegradation of pyridine by *Rhodopseudomonas palustris* JA1	Indian J Experimental Biol. 40: 967-970.	2002
36	N. Rajasekhar, Ch. Sasikala and Ch.V. Ramana	Toxicity of N-containing heterocyclic aromatic compounds and their utilization for growth by a few purple non-sulfur bacteria.	Bull. Environ. Contamination & Toxicology 65, 375-382.	2000
35	Nanda Devi, Ch. Sasikala and Ch.V. Ramana	Light-dependent transformation of anthranilate to indole by *Rhodobacter sphaeroides* OU5	.J. Industrial Microbiol. Biotechnol. 24, 219-221.	2000
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32	N. Rajasekhar, Ch. Sasikala and Ch.V. Ramana	Photoproduction of L-tryptophan from indole and glycine by *Rhodobacter sphaeroides* OU5.	Biotechnol. Appl. Biochem. 30, 209-212.	1999
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18	Ch. Sasikala and Ch.V. Ramana	Biotechnological potentials of anoxygenic phototrophic bacteria. 2. Biopolyester, bioplastic, biofuel and use as biofertilizer.	Adv. Applied Microbiol. 41, 227-278.	1995
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16	Ch. Sasikala, Ch.V. Ramana and G.S. Prasad.	Production of hydrogen by mixed cultures.	World J. Microbiol. Biotechnol. 10, 221-223.	1994
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12	Ch. Sasikala, Ch.V. Ramana and P. Raghuveer Rao	5-Aminolevulinic acid : A potential herbicide/insecticide from microorganisms.	Biotechnology Progress 10, 123-126	1994
11	K. Sasikala, Ch.V. Ramana, P. Raghuveer Rao and K.L. Kovacs	Anoxygenic phototrophic bacteria : Physiology and advances in hydrogen production technology.	Adv. Appl. Microbiol. 38, 211-295.	1993
10	K. Sasikala, Ch.V. Ramana and P. Raghuveer Rao	Photoproduction of hydrogen from waste waters of a distillery by *Rhodobacter sphaeroides* OU 001.	Int. J. Hydrogen Energy 17, 23-27.	1992

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6	K. Sasikala, Ch.V. Ramana, P. Raghuveer Rao and M. Subrahmanyam	Photoproduction of hydrogen, nitrogenase and hydrogenase activities of free and immobilized whole cells of *Rhodobacter sphaeroides* OU 001.	FEMS Microbiol. Lett. 72, 23-28.	1990
5	K. Sasikala, Ch.V. Ramana and P. Raghuveer Rao	Effect of gas phase on the photoproduction of hydrogen and substrate conversion efficiency in the photosynthetic bacterium *Rhodobacter sphaeroides* OU001.	Int. J. Hydrogen Energy 15, 795-797.	1990
4	K. Sasikala and Ch.V. Ramana	Photoproduction of hydrogen by photosynthetic purple non-sulfur bacteria : 1. Isolation, characterization, identification and growth of *Rhodobacter sphaeroides* OU001.	Proc. Ind. Natn. Acad. Sci. B56, 235-240.	1990
3	K. Sasikala and Ch.V. Ramana	Ammonia leaching by resting cells of a photosynthetic purple non-sulfur bacterium, *Rhodobacter sphaeroides* OU 001.	J. Indian Inst. Sci. 70, 447-450.	1990
2	Ch.V. Ramana, K. Sasikala, P. Raghuveer Rao and M. Subrahmanyam	Hydrogen formation by cyanobacteria. I. Screening cyanobacteria for hydrogen production.	Proc. Ind. Natn.Acad. Sci. B56, 361-366.	1990
1	B.R. Renuka, M. Vinayakumar, Ch. V. Ramana, Ch. Shravan Kumar, R. Lakshmi and K. Sasikala	Photoproduction of hydrogen from photosynthetic microbes.	"Proceedings of Bio-Energy Society India, Forth Convention and Symposium", 1987, pp. 273-275.	1988

Books:

1. Bioremediation of toxic pollutants using microorganisms: Ecofriendly and Cost effective Technology 2011 (Yapadinna Vimala, A. Uma Sankar, Ch.Sasikala)
2. Two chapters in the book, "Environmental chemistry and Microbiology" published by centre for distance education, University of Hyderabad.
3. Novel Purple Nonsulfur Bacteria from Diverse Habitats of India: Discovery and Description, Scholars' Press. ISBN-13:978-3-639-66303-7 (Shalem Raj P. and Sasikala, Ch, 2015).

Papers presented in Conferences/Seminars

1. N. Rajasekhar and Sasikala, Ch., (1997) Photobiotransformation of aromatic compounds to value added products by photosynthetic bacteria. Presented at International Conference on "Industrial Pollution and Control Technologies (ICIPACT-97), November 17-19, Hyderabad.
2. P. Nanda Devi and Sasikala, Ch., (1997). Initiation of aromatic degradation of toxic aromatic compounds under anaerobic conditions by *Rhodobacter sphaeroides*. Presented at International Conference on "Industrial Pollution and Control Technologies (ICIPACT-97), November 17-19, Hyderabad.
3. Uma Narsing Rao and Sasikala, Ch., (1997). Anoxic photobiodegeradation/detoxification of nitro substituted aromatic hydrocarbons by *Rhodopseudomonas palustris*. Presented at International Conference on "Industrial Pollution and Control Technologies (ICIPACT-97), November 17-19, Hyderabad.
4. K. Arunasri, Sasikala, Ch., and Ramana. Ch.V., (2001). Biodiversity of anoxygenic phototrophic bacteria of flooded paddy soils of Andhra Pradesh. Paper presented at EPIRAM, 6h and 7th July, 2001, Hyderabad.
5. A. Archana, Sasikala, Ch., and Ramana. Ch.V., (2001). Effect of herbicides on the nitrogenase activities of phototrophic diazotrophs. Paper presented at EPIRAM, 6h and 7th July, 2001, Hyderabad.
6. K. R. Girija, Sasikala, Ch., and Ramana. Ch.V., (2001). Biodegradation of pyrazine-2-carboxylic acid by a newly isolated chemotropic bacterium, *Pseudomonas aeruginosa*, strain cd. Paper presented at ICIPACT, 2001. December, 7th-10th, Hyderabad.
7. K. Arunasri, Sasikala, Ch., and Ramana. Ch.V., (2001). Single cell protein from dairy effluent. Paper presented at ICIPACT, 2001. December, 7th-10th, Hyderabad.
8. A. Archana, Sasikala, Ch., and Ramana. Ch.V., (2001). Impact of ground water pollution on dinitrogen fixation of a paddy soil. Paper presented at ICIPACT, 2001. December, 7th-10th, Hyderabad.
9. A. Archana, Sasikala, Ch., and Ramana. Ch.V., (2005). Antagonistic effect of Pyrazine-2-carboxylic acid on growth inhibition in the purple non-sulfur bacterium *Rhodopseudomonas palustris* JA1 by the herbicides, DCMU and Clomazon tech. Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
10. K. Arunasri, Vinay, B., Sasikala, Ch., and Ramana. Ch.V., (2005). Anoxygenic phototrophic bacterial diversity of Industrial effluents. Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
11. Mercy Rose Stella, Sasikala, Ch., and Ramana. Ch.V., (2005). Photobiodegradation of p-Toluene sulfonic acid by an Anoxygenic phototrophic purple sulfur bacterium, strain JA 121 Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
12. Shalem Raj. P., Sasikala, Ch., and Ramana. Ch.V., (2005). A novel method for augmentation of aromatic compound biodegradation and industrial effluent treatement using Pyrazine-2-carboxylic acid. Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
13. Aparna. P, Sasikala, Ch., and Ramana. Ch.V., (2005). Isolation of mixed consortium of soil bacteria capable of degrading Pyrazine-2-carboxylic acid. Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
14. Srinivas .T.N.R, Arinasri.K, Anil Kumar.P, Sasikala, Ch., and Ramana. Ch.V., (2005). *Pheobacter marinum* gen. nov., sp. nov., and transfer of *Rhodovulum uryhalinum* and *Rhodovulum strictum* to *Phaeovulum uryhalinum* and *Phaeovulum strictum* gen. nov., comb nov. Poster presented at ICEM, 2005. October 27th-30th, Hyderabad.
15. Anil Kumar.P, Sailoo.K, Sasikala, Ch., and Ramana. Ch.V., (2005). Occurance of green sulfur bacteria in a few marine habitats of India. Paper presented at ICEM, 2005. October 27th-30th, Hyderabad.
16. Aparna. P, Sasikala, Ch., and Ramana. Ch.V., (2006). Biodegradation of N-Heterocyclic aromatic hydrocarbons by a mixed culture of soil bacteria. Paper presented at NCEM, 2006. Novermber 16th-18th, Hyderabad.
17. K. Arunasri, Sasikala, Ch., and Ramana. Ch.V., (2006). FT-IR spectroscopy: An innovative chemotaxonomic typing method for distinguishing Anoxygenic phototrophic bacterial species. Paper presented at NCEM, 2006. Novermber 16th-18th, Hyderabad.
18. Kalyan Chakravarthy, Sasikala, Ch., and Ramana. Ch.V., (2006).Anoxygenic Phototrophic Bacterial Diversity of hypersaline habitats of India. Paper presented at NCEM, 2006. Novermber 16th-18th, Hyderabad.
19. Venkata ramana,V, Sasikala, Ch., and Ramana. Ch.V., (2006).Purple Non-Sulfur Bacteria of Extreme Habitats of India. Paper presented at NCEM, 2006. Novermber 16th-18th, Hyderabad.

20. Srinivas, T. N. R., Anil Kumar, P., Sasikala, Ch., and Ramana. Ch.V., (2006). Bacteria hidden behind the colour of the "pink pond" of Hyderabad, Noor Mohammed Kunta. Paper presented at NCEM, 2006. Novermber 16^{th}-18^{th}, Hyderabad
21. Sivaranjani. G., Sasikala, Ch., and Ramana. Ch.V., (2006). Biocolorunt production from agricultural wastes. Paper presented at NCEM, 2006. Novermber 16^{th}-18^{th}, Hyderabad
22. Vinay Kumar. B, Sasikala, Ch., and Ramana. Ch.V., (2006). Heliobacteria are widely distributed in rhizosphere soils of various crops of India. Paper presented at NCEM, 2006. Novermber 16^{th}-18^{th}, Hyderabad.
23. M. V. Seshagiri Rao, Dr. Ch. Sasikala, S. Sunil Pratap Reddy. (2007). Studies on the use of bacteria to improve the performance of cement mortor. 70^{th} Annual General Meeting, October 24, 2007
24. Sridivya, T., Sivaranjani., Sasikala,Ch., and Ramana, Ch.V (2009). Bacterial pigments as natural colorants. Presented at International Workshop on Clean Technologies for Sustainable Development. December 9-10, Hyderabad, 2009.
25. Sucharitha. K., Shivakumar. E., Sasikala, Ch., Panda. B. B., and Ramana. Ch.V. (2009). Molecular and cultured diversity of anoxygenic phototrophic bacteria of chilika lagoon. Paper presented on 3^{rd} National Confernece of National Environmentalists Association on Environmental Science and Technology for Sustainable Development. Held on January 18,19 & 20, 2009.
26. Cultured diversity of sulfate reducing bacteria and their metabolism of sulfur containing aromatic compounds. Sasi Jyothsna. T. S., Sasikala, Ch., and Ramana. Ch.V.. (2009). Molecular and cultured diversity of anoxygenic phototrophic bacteria of chilika lagoon. Paper presented on 3^{rd} National Confernece of National Environmentalists Association on Environmental Science and Technology for Sustainable Development. Held on January 18,19 & 20, 2009.
27. Venkata Ramana, V., Sasikala, Ch., and Ramana, Ch.V.(2010). Degradation and utilization of acephate by Purple Non-Sulphur bacteria. Presented at National Seminar on Environmental management: Present and future scenario. January 22-23, Kothagudem.
28. Shalem Raj. P., Sasikala, Ch., and Ramana. Ch.V (2010). A novel method for enhancement of industrial effkuent treatment using pyrazine-2-carboxylic acid. Presented at National Seminar on Environmental management: Present and future scenario. January 22-23, Kothagudem.
29. Girija, K.R., Sasikala, Ch., and Ramana, Ch.V. (2010). Effect of *Rhodobacter johrii* on germination and growth of Jowar seedlings. Presented at National Seminar on Environmental management: Present and future scenario. January 22-23, Kothagudem.
30. T Sravanthi, Ch. Sasikala and Ch. V. Ramana. (2016). "Effect of a few precursors on the metabolic foot print of *Spirocheta sphaeroplastigenens* JC133^{T} in serch of biomoleculs". Presented at International symposium on trend setting innovations in chemical sciences and Technology: Applications in pharma industry. Dec 16-18, 2015.
31. Ashif Ali., Sasikala, Ch and Ramana, Ch.V. (2017). Genome sequence of *Rhodobacter johrii* JA192^{T}. Presented at 8^{th} International conferernce on photosynthesis and hydrogen Research for Sustainability. October, 30-November 4, 2017, held University of Hyderabad, Hyderabad.
32. Characterisation of the bacterial pigments of Flectobacillus rhizosphaere JC isolated from the rhizsphere soil of *Oryza sativa*. Presented at 8^{th} International conferernce on photosynthesis and hydrogen Research for Sustainability. October, 30-November 4, 2017, held University of Hyderabad, Hyderabad.

Courses taught:

The following courses were taught at postgraduate level for students of M.Sc Environmental Biiotechnology, M. Sc. Environmental Science and Technology and M. Tech in Environemntal Management and M. Tech in Biotechnology

Theory courses

- Environmental Microbiology
- Environmental biotechnology

- Biodegradation and Bioremediation
- Industrial Microbiology
- Prokaryote diversity (elective)
- Microbial biotechnology
- Ecology
- Industrial Microbiology
- solid and hazardous waste management
- Instrumental methods of analysis
- Waste water treatment technologies

Laboratory (Practical) courses:

- Environmental Microbiology
- Microbial biotechnology
- Biochemistry
- Biodegradation and bioremediation
- Molecular biology techniques
- Pollution monitoring and control

Training courses/workshops attended:

1. Training course on "DNA techniques" October 19-23, 1992 Madurai Kamaraj University, Madurai.
2. National workshop on "Exploration of microbial Diversity: A polyphasic approach conducted by MTCC, IMTECH, Chandigarh, from 30-9-2002 to 12-10-2002.
3. workshop on "Management of intellectual property rights in biotechnology" conducted by BCIL, at Hyderabad, April, 26-27, 2007.
4. Training workshop on "Biodiversity conservation" held at Wildlife Institute of India, India 11.11.2013 to 15.11.2013.
5. Indo-German bilateral workshop on "Microbial Ecology and Application of Inoculants for bio-control". 7-10th April, 2014.
6. Workshop on "Tackling antimicrobial resistance" at Hotel Hyatt, Hyderabad. on 15th October, 2015.
7. National workshop on "Mitigating Agrarian distress in Indian Agriculture" held at Centre for Good Governance, Hyderabad on 15-10-2015.
8. Workshop on "Marine Ecology of Gujarat Coast" at MK Bhavnagar University, Bhavnagar on 28th October, 2015.
9. Training course for "Small World Initiative Partner Instructor" at University of Connecticut, USA. June 11-26, 2016.
10. NPTEL workshop conducted by NPTEL and IIT Madras at Vardhman College of Engineering, Hyderabad. 9th July, 2016.
11. Third meeting of Bergey's International Society for Microbial Systematics, 2016 on "Microbial Systematics and metagenomics" at MCC, Pune, India. 12-15th September, 2016.

12. International Symposium on "Microbial Resource Centres and Conservation of Microbial Diversity" and meeting of Asian Consortium for the Conservation and sutainable use of microbial Resources, (ACM) 8-10th November, 2016.
13. AMI annual meeting and "International symposium on Microbes and Biosphere: What's New and What's Next". Held at Gowahati University, 24th -27th November, 2016.
14. Indo-US workshop, met SUS2017 on "Microbial Bioelectrochemical Technologies for sustainability: Fuels, Chemicals and Remediation'. (metSUS-2017) on 28-2-2017 at IICT, Hyderabad.
15. Round table conference on sustainable Industrial development, (Focusing on Environmental Challenges and Appropriate Solutions) at KLN Prasad Auditorium, Federation House, Red Hills, FAPCCI, Hyderabad. 3-3-2017.
16. Fecal sludge and Septage monitoring workshop for Environmntal Laboratories. At Administrative Staff College of India, Hyderabad, 5-8-2017.
17. WIPO-CII-IPO National Roving Seminar on PCT, at Hyderabad, 16-3-2018.

Research collaboration with joint publications:

National :

Prof. Ch.V. Ramana	: University of Hyderabad
Dr. Shivaji. S	: CCMB Hyderabad
Dr. S. Venkatesh	: CRIDA, Hyderabad
Dr. G.V. Ashok Kumar	: A.V.V.M. Sri Pushpam College, Poondi, Tamil Nadu
Mr. R. Kathiravan	: M.S. Swaminathan Research Foundation, Chennai
Dr. M. Subrahmanyam	: CSIR-Indian Institute of Chemical Technology,Hyderabad
Prof. B.B Panda	: Bharampur University, Bharampur , Orissa.
Prof. Bharti Dave	: MK Bhavanagar University, Bhavnagar
Prof. Satya P. Singh	: Sourashtra University, Rajkot.
Dr. S. Sunil Pratap Reddy	: CJITS, Jangaon, Warangal
Prof. M.V.Seshagiri Rao	: JNTUH college of Engineering , Hyderabad.
Dr. Y. Vimala	: GITAM University, Visakhapatnam.
Dr. Vishnuvardhan Reddy and Dr. Tirumala Devi	: Mahathma Gandhi University, University, Nalgonda.

Prof. Satya P. Singh : Saurashtra Univeristy, Rajkot.

International:

Prof. K.L.Kovacs : Institute of Biophysics, Biological Research Centre, Hungarian Academy of Science, Szeged, Hungary.

Prof. J.F.Imhoff : IFM-GEOMAR, Kiel, Germany

Dr. S. Takaichi : Nippon School of Medical Sciences, Japan

Prof. H-J. Busse : Veterinarmedizinisehe Universitat, Austria.

Dr. P. Schumann and Dr. C. Spröer : Leibniz-Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen, Germany

Dr. T. Maoka : Institute of production development, Shimogamo-morimotocho, Sakyo, Kyoto, Japan

Prof. C.N. Seong : Sunchon National University, Korea

Prof. Keiko Okamura : Toyohashi University of Technology, Toyohashi, Japan.

Invited talks delivered in the last 10 years:

Outside the country (since 2006):

1) Invited speaker at University of Osnabruck, Germany on "Anoxygenic phototrophic bacteria: diversity and biotechnological potentials." 17th March, 2006.
2) Invited seaker at IFM-GEOMAR, Kiel, Germany Topic: "Cultured diversity of Anoxygenci phototrophic bacteria of India". 17-4-2008
3) Invited speaker at the International symposium on the taxonomy of phototrophic bacteria during meeting of International subcommittee on the taxonomy of Phototrophic bacteria, 2009. Title "New taxa of purple bacteria described since the last meeting in 2006" at Montreal, Canada.
4) Invited speaker at the International symposium on the taxonomy of phototrophic bacteria: during meeting of International subcommittee on the taxonomy of Phototrophic bacteria. Title "New taxa of purple bacteria described since the last meeting in 2012" on 4th August, 2015 at Tubingen, Germany.
5) Invited speaker at the University of Stuttgart, Germany on "Diversity and Bioprospecting of Anoxygenic phototrophic bacteria of India" on 7-8-2015.

6) Invited speaker at the University of Gotheborg, Sweden on "Antimicrobial resistance among Environmental isolates of Bacteria from India" on 10-8-2015.
7) Invited talk at International Conference on Environmental Science and Technology, 2016 at Houston, USA " Anearobic degradation of paratoluene sulfonic acid, sulfanylic acid and Thiophene-2-acetic acid by the sulfate reducing bacterium, *Desulfovibrio psychrotolerance* JS1^{T} in liquid cultures, soil and sludge microcosms." on 8th June, 2016. At International conference on Environmental Science and Technology (ICEST), 2016.
8) Invited talk at Department of chemical Engineering, Northeastern University, Boston, Title. "Major groups of microorganisms and their exploitation in environmental management". On 14-6-2016
9) Invited talk at the department of Molecular and Cell biology and Institute of Systems Genomics, Connecticut University, Connecticut, USA on "Description of novel species of prokaryotes" on 21-6-2016.

Within India (since 2006)

1) Invited speaker at 47th annual conference of Association of Microbiologists of India "Microbiology, the challenges ahead" held at Bhopal, December 6 to 8, title "Anoxygenic Phototrophic bacteria from marine and coastal ecosystems of India: a survey leading to their census." Delivered on 6, Dec, 2006.

2) Invited speaker at "International Symposium on Microbial Biotechnology: Diversity, genomics & metagenomics" held at Delhi, November 18-20, 2008, Title "Anoxygenic phototrophic bacterial diversity of India."

3) Invited speaker at "National Seminar on Recent Advances in Molecular Microbiology and Microbial Technology" held at Kakatiya University, January 22-24, 2009, Title "Updates on Anoxygenic Phototrophic Bacterial Diversity of India".

4) Invited speaker at the meeting of International Subcommittee on the taxonomy of phototrophic bacteria held during International Symposium on phototrophic bacteria at Montreal, Canada, 09-14 August, 2009, title "Taxonomic updates on phototrophic bacteria since 2006".

5) Invited speaker at seminar on "Tackling climate changes through standards" held on 14th October 2009 conducted by Bureau of Indian Standards, BSI, Hyderabad.

6) Invited speaker at a training programme on "Sampling, analytical techniques of water samples and quality control" held at NGRI, Hyderabad on 14-Dec, 2009, title "Microbiological methods of water analysis".

8) Invited speaker at National seminar on Environmental Management: held on 22 & 23-Jan-2010 at Singareni Colleries Women's College, Kothagudem Title. "Present and future scenario of Phytoremediation"

9) Invited speaker at Central Institute of fresh water aquaculture (CIFA) held at Bhuvaneshwar on 28-Jan, 2010, Title "Cultured and genetic diversity of prokaryotes".

10) Invited speaker on World Health Day celebrations. "Urbanization and Health" held on 7-April, 2010 at Hyderabad, Government of Andhra Pradesh, Title "Indoor Air pollution".

11) Invited speaker at World environment day celebrations at BHEL, Hyderabad "Biodiversity- Ecosystems management and green economy". June, 5th, 2010.

12) Invited speaker at a training programme on "Sampling, analytical techniques of water samples and quality control" held at NGRI, Hyderabad on September, 2010. Title "Microbiological methods of water analysis".

13) Invited speaker at International workshop on r RNA sequencing, phylogeny and next generation genome sequencing held at BITS, Mesra. 15-16 Dec 2010 at Ranchi. Title: Description of new species of anoxygenic phototrophic bacteria.

14) Invited speaker at Department of life sciences, Bhavnagar university, Bhavnagar. 17-1-2011. Title: "Taxonomy of anoxygenic phototrophic bacteria".

15) Invited speaker International symposium on "Microorganisms in Environmental Management & Biotechnology"-b July 1-3. 2011 Bhopal. Title: "Diversity and bioprospecting of anoxygenic phototrphic bacteria of India"

16) Invited speaker at International seminar on "Molecular Ecology and Metagenomics" held at Pune- Sep 7th, 2012. Title: "Insights gained from the study of cultured diversity of Anoxygenic phototrophic bacteria India".

17) Invited speaker at Department of Microbiology, University of Pune - Sep 8th, 2012. Title: "Cultured diversity and bioprospecting of anoxygenic phototrophic bacteria of India".

18) Invited speaker at UGC Academic Staff College, JNTUH on "Recent advances in Biotechnology & Bioinformatics". 26-Nov 2012. Title: Bioremediation.

19) Invited speaker at Refresher course on "Recent advances in Biological Sciences", UGC Academic staff college, JNTUHyderabad Title 30t-11-2012 Title: "Description of novel species of anoxygenic phototrophic bacteria"

20) Expert lecture at UGC Academic staff college, Univ. of Hyderabad on 6th December, 2012. Title: 'Description of novel taxa of prokaryotes"

21) Invited speaker at training on "Fermentation technology for production of value added products from agricultural residues" under National Agricultural Innovation Project at Central Institute of Post Harvest Engineering and Technology (CIPHET), PO- PAU, Ludhiana. On 15th Dec, 2012. Title: "Identification of bacteria used in fermentative production"

22) Invited speaker at training on "Fermentation technology for production of value added products from agricultural residues" under National Agricultural Innovation Project at Central Institute of Post Harvest Engineering and Technology (CIPHET), PO- PAU, Ludhiana. On 16th Dec, 2012. Title: "Biological Hydrogen Production".

23) Invited speaker (first ever) at Inter University Faculty Forum (IUFF) of Andhra Pradesh at video conference halls of all 23 district collector offices in AP. 27-2-2013. Title: Anoxygenic phototrophic bacterial diversity and their bioprospecting for sustainable future"

24) Expert lecture at 34th Orientation course conducted by Academic staff College, JNTUHyderabad. 3-9-2013. Title: "Funding for research and teaching at colleges/university"

25) Expert lecture at 3rd research methodology course for Ph.D scholars, R&D unit, JNTUHyderabad. 16-12-2013. Title: "Research publications and quality indices".

26) Invited talk at UGC Academic Staff college, JNTUH 24th Jan 2014. Title: "Effective use of research resources"

27) Invited speaker at UGC Academic Staff college, JNTUH 24th Jan 2014. Title: "Funding for research"

28) Expert lecture at IIT Hyderabad on 4-2-2014. Title: "Microorganisms and Civil Engineering, A bird's Eye View".

29) Invited talk at UGC Academic Staff college, JNTUH 07.03.2014 Title: "Effective access to research resources".

30) Invited speaker at Indo-German bilateral workshop on Microbial Ecology and Application of Inoculants for bio-control. 7-10th April, 2014 Topic: Identification and Description of new taxa of prokaryotes.

31) Invited special talk at National conference on "Recent trends in Microbial Biotechnology", Osmania University, Hyderabad, 26-2-2015. Topic: "Diversity of Anoxygenic photorophic bacteria of india and their Bioprospecting"

32) Invited talk at the national conference, "Sustainable Environment through green Energy", at Andhra Loyola college, Vijayawada. 27-2-2015. Tiopic: "Bioremediation"

33) Invited talk at VNR Vignan Jyothi Institute of Technology, Hyderabad. Topic "Biotechnology for Environmntal management" 2nd nd March, 2015.

34) Invited talk at Loyola academy Hyderabad topic "Bacterial systematics: the new paradigm" 13th July, 2015.

35) Invited talk at Bhavnagar University on 29-10-2015, topic "Taxonomy of anoxygenic phototrophic bacteria".

36) Invited talk at referesher Course "Recent advances in biological Sciences"-University of Hyderabad on 2-12-2015, topic"Bioremediation Technologies".

37) Invited talk at third meeting of Bergey's International Society for Microbial Systematics, 2016 on "Microbial Systematics and metagenomics" at MCC, Pune, India. 12-15th September, 2016. Topic: "Use of metabolomics for the description of novel bacterial taxa".

38) Invited talk at the International Symposium on "Microbial ecology and Systematics" held at National Centre for Cell Sciences, Pune. 16-17th September, 2016. Topic: "Diversity and bioprospecting of anoxygenic phototrophic bacteria of India".

39) Invited talk at the workshop on Research methodologies. JNTUniversity Hyderabad. 22-9-2016. Topic: "Funding for Research".

40) Invited talk at the International Symposium on "Microbial Resource Centres and Conservation of Microbial Diversity" and meeting of Asian Consortium for the Conservation and sutainable use of microbial Resources, (ACM) 8-10th November, 2016. Topic: Diversity and bioprospecting of Anoxygenic phototrophic Bacteria of India.

41) Invited talk at AMI annual meeting and "International symposium on Microbes and Biosphere: What's New and What's Next". Held at Guwahati University, 24th -27th November, 2016. Topic: Bacterial diversity of India and prospecting.

42) Invited talk at Refresher course on biotechnology, 2017 at University of Hyderabad, 29-8-2017. Topic: Research Publications and quality Indices.

43) Key note talk at 3rd International conference on Environmental Managament, 2017 held at Hyderabad. Talk delivered on 28-11-2017. Topic: Anoxygenic phototrophic bacterial diversity of India and their exploitation for Environmental management.

44) Invited talk at Refresher course on Basic Principles and research advancement in Life sciences and Pharmaceutical Sciences UGC HRD Centre, JNTU Hyderabad. 6-2-2018. Topic: Screening for Biological Activity/ biologically active compounds.

45) Chief Guest and Keynote speaker at annual lecture series, "Gyan tarangini Vyakhyana mala" of Bhavan's Vivekananda College, Hyderabad, on 23rd February, 2018. Topic: Anoxygenic phototrophic bacterial diversity of India and their bioprospecting for human welfare.

Chairing of sessions:

1) Chaired a session on "Ecology, Climate change and plant adaptation" at the two day National seminar on recent advances in plant sciences held at Singareni Colleries Womens college, Kothagudem, 29-30th October, 2014.

2) Chaired a session at the International conference on Water Resources, 2015, held at JNTUniversity Hyderabad.

3) Chaired a session during two day National Conference on Water, Environment and Society (NCWES-2015) held at Hyderabad, India 30-7-2015.

4) Chaired a session on "Microbial diversity" during AMI annual meeting and "International symposium on Microbes and Biosphere: What's New and What's Next." Held at Guwahati University, 24th -27th November, 2016.

5) Chaired a session on "Agricultural Microbiology" during AMI annual meeting and "International symposium on Microbes and Biosphere: What's New and What's Next". Held at Guwahati University, 24th -27th November, 2016.

6) Chaired a session on "Industrial Perspective on MET" during Indo-US workshop on "Microbial Bioelectrochemical Technologies for sustainability: Fuels, Chemicals and Remediation'. (metSUS-2017) on 28-2-2017 at IICT, Hyderabad.

Inclusion of biography in:

2) Biography included in "Who is Who in the World" (Marquis Who's Who), 1996 to 2016.

3) Selected as one of the "2000 Outstanding People of the 20th Century" by the International Biographical Centre, Cambridge, England.

4) Chosen for the "20th Century Award for Achievement" in recognition of outstanding achievements in the field of "Microbiology".

5) Biography included in "International Who's Who of Contemporary achievement" published by the American Biographical Institution, Inc

6) Biography included in "International Directory of Distinguished Leadership" published by the American Biographical Institution, Inc.

7) Nominated for the "International Women of the Year, 1997" by the International Biographical Centre, Cambridge, England.

8) Nominated for the prestigious title "Woman of the Year-1997" by the American Biographical Institute, Inc.

9) Nominated for the prestigious title "Personality of the Year –1998".

10) Recommended by the governing board of editors for biographical inclusion in " Five thousand Personalities of the year" in 1997.

11) Invited to become a member of the "ABI's Research Board of Advisors."

12) Selected for biographical inclusion in Dictionary of International Biography "… A unique tribute to human endeavor."

13) Nominated for the "Woman of the Year-2000" by American Biographical Institute.

14) Name included in 2000 outstanding scientists of 20th century, First edition of IBC.

15) Biography included in "International Who is Who of Professional and Business Women." 8th edition 2001.

16) Invited to be the member of the "Professional Women's Advisory Board ." of ABI.

17) Life member "The Association of Microbiologists of India".

18) Biography included in "Who is Who in Medicine and Healthcare 2000-2016".

19) Biography included in "Who is Who in Science and Engineering", 2002 -2013.

20) Nominated to the title "Woman of the Year-2003" by American Biographical Institute, Inc

21) Biography included in "Asian American Who's Who", 2004 to 2012

22) Biography included in "Who is Who in Science and Engineering", 2004 & 2005

23) Biography included in "Asian Admirable Achievers", 2006- 2016.

24) Biography included in "Who is Who in Asia", 2006-2016.

Details of seminars, conferences, symposia, refresher courses organized:

a. National workshop on Environmental biotechnology on 6th December, 2001 at Hotel Taj Residency, Hyderabad.
b. Refresher course on "Environmental Biotechnology", 5-8-04 to 25-8-04
c. National workshop on environmental biotechnology on 26 October, 2005.
d. One day work shop with panel discussion on "Young India on climate Change" on 5-3-2009 along with Association of British scholars.
e. One day national work shop on "Genetically modified crops" on the eve of National Science Day on 28th February 2013.
f. A simulation conference "COP in my city, Warsaw in Hyderabad" jointly with Revolution, an NGO on 20/11/2013.
g. National workshop on "Recent Advances in Science & Technology" 5th March 2014.
h. National level technical festival on Environmental Science & Technology, "Avani 2014" on 13-14th March, 2014.

Details regarding Workshops, seminars, symposia/training courses attended.

1) International Conference on "Research in Plant Science and its Relevance to Future", March 7-11, 1998, Delhi.
2) National Symposium on "New Trends in Biotechnology", June 3-4, 1998, Trivendrum.
3) National Solar Energy Convention, December 7-11, 1988, Hyderabad.
4) National Seminar on "Potentials and Prospects of Biotechnology in Developing Countries", February 6-8, 1989, Hyderabad.
5) "National Workshop on Chemical Routes for Trapping Solar Energy (CHEMTRAPSE)", April 20-21, 1989, IIT Madras.
6) National Workshop Cum Review Committee Meeting on "Hydrogen Energy", July 10-12, 1989, Jaipur.
7) National Symposium on "Current Trends in Mineral Nutrition of Crop Plants", September 28-30, 1989, Hyderabad.
8) "National Work Shop on Fuel Cells", February 15, 1990, BHEL, Hyderabad.
9) International Symposium on "Microbial Biotechnology", November 1990.
10) "National Workshop on DNA Techniques", October 19-23, 1992, Madurai Kamaraj University, Madurai.
11) "International Conference on Industrial Pollution and Control Technologies" (ICIPACT-97)" November 17-19, 1997, Hyderabad.
12) "20th Group Monitoring Workshop of Young Scientist Research Scheme" March 4-5, 1998, Tropical Botanical Gardens & Research Institute (TBGRI), Thiruvanthapuram.
13) Short Term Course on "Remote Sensing and GIS for Environmental Management" 10th February to 10th March 2000, JNT University, Hyderabad.
14) "Task force meeting on Integrated nutrient management" of Department of Biotechnology, held at MSSRF, Chennai, on 15th May, 2001.
15) National workshop EPIRAM "Environmental pollution, impacts, remediation and management held at NGRI, Hyderabad on 6th and 7th July, 2001.

16) Refresher course in modern advances in Plant Biotechnology conducted by Academic staff college, University of Hyderabad, 16th August to 15th September.

17) National workshop on "Cleaner Technologies" Held on 5th December, 2001 held at Hyderabad.

18) International conference on industrial pollution and control technologies ICIPACT-2001 held at Hyderabad, December 7th- 10th .

19) Refresher course in Environmental Science and Engineering Conducted by Academic Staff College, JNTU, from 3-12-2001 to 22-12-2001.

20) Earth day celebrations on 22-4-2002 conducted by Department of Forests, Science and Technology and Centre for Environment, IPGSR, JNTU.

21) World conference on Disaster Management Infrastructure and Control Technologies held on 10-12 Nov. 2003 at Hyderabad.

22) International conference on environmental management, held on 27-29 October, 2005 at Hyderabad.

23) National seminar on Environmental biotechnology held on 26-10-2005, JNTUniversity, Hyderabad.

24) International symposium on phototrophic bacteria (ISPP), 2008 at Montreal, Canada. 9-14 August,

25) Meeting of International committee on systematics of prokaryotes, sub-committee on the taxonomy of phototrophic bacteria.. held at Montreal, Canada, 11 August, 2008.

26) International conference on 'Recent Advances in Cross-disciplinary Microbiology: Avenues and Challenges' held at BITS Mesra,Ranchi. Dec 11-14, 2010.

27) International symposium on "Microorganisms in Environmental Management & Biotechnology"-Sep 16th 2011 Bhopal.

28) International Conference on Microbial Biotechnology for Sustainable Deveopment Nov3-6, 2011, Panjab University, Chandigarh, India.

29) International seminar on "Molecular Ecology and Metagenomics" held at NCCS, Pune- Sep 7th, 2012

30) Workshop on Common Effluent treatment plants in India Issues, Challenges, opportunities and way forward 23rd Nov, 2012.at CH.Sohrabji Godrej Green Business Centre, Hyderabad

31) Attended National workshop on industrial waste water treatment Zero discharge on 21.03.2014 , at IST, JNTU Hyderabad

32) Attended Training workshop on Biodiversity conservation held at Wildlife Institute of India, Dehradun India 11.11.2013 to 15.11.2013

33) Seminar on Intellectual Property Rights and Biodiversity "Protection of IPR and Biodiversity": opportunities and challenges for Stakeholders 28 March 2014, Hotel Haritha Plaza, Hyderabad ; India.

34) Indo-German bilateral workshop on "Microbial Ecology and Application of Inoculants for bio-control". 7-10th April, 2014, IARI, New Delhi.

35) National workshop on "Biofuels from Waste" 5-6th August, 2014, JNTUH, Hyderabad

36) National workshop on Recent trends in Microbial Biotechnology at Osmania University, Hyderabad 26-28 February, 2015.

37) Panel discussion on "Tackling Antibiotic resistance" at Hotel Prk Hyatt, Hyderabad on 15-10-2015.

38) National workshop on "Mitigating Agrarian distress in Indian Agriculture" held at Centre for Good Governance, Hyderabad on 15-10-2015.

39) A workshop, 'Inspiring Change: Impact of UK-India research partnership'. organized by Research Councils UK India in partnership with British Deputy High Commission Hyderabad, 18-2-2016.

40) An international workshop, "Editors Roudtable, 2016" by M/S Taylor and Franscis, at Hyderabad, on 9-3-2016.

41) International conference on Environmental Science and technology 2016 (ICEST 2016) held at Boston, USA 6-10th June, 2016.

42) Small world Initiative Partner Instructor SWIPI) Training Programme at University of Connecticut, Connecticut, USA, 21-26th June, 20106.

43) International knowledge millennium conference 2016: "Accelerating Innovation" held on 24-25th October, 2016 at HICC, Hyderabad.

44) International Symposium on "Microbial Resource Centres and Conservation of Microbial Diversity" and meeting of Asian Consortium for the Conservation and sutainable use of microbial Resources, (ACM) 8-10th November, 2016.

45) "International symposium on Microbes and Biosphere: What's New and What's Next". Held at Guwahati University, 24th -27th November, 2016.

46) Round table conference on Sustainable industrial Development at Federation house, FAPCCI, Hyderabad, FAPCCI, Hyderabad, 03.03.2017.

47) Fecal sludge and Septage Monitoring Workshop for environmental laboratories on, at ASCI, College Park Campus, Banjarq Hills, Hyderabad. By NFSSM alliance technology task force. 5-8-2017.

48) 8th International conferernce on photosynthesis and hydrogen Research for Sustainability. October, 30-November 4, 2017, held University of Hyderabad, Hyderabad.

49) 3rd International conference on Environmental Managament, 2017 held at Hyderabad. 27- 30th November, 2017.

Outreach activities:

1) **Mentoring an NGO, Revolution, working towards environmrntal awreness and solutions, started by B. Tech students.**

2) **Mentoring an NGO, SEED in establishing a laboratory for testing the s undried food products.**

3) **Mentoring a startup M/s biovision crop sciences" and M/s varvee herbs by providing technical guidance and cultures to be used for solid waste management, aquaculture and biofertilizers.**

Progression of Doctoral students to post doctoral fellowships

S. No	Degree	Name of the student (fellowship availed during PhD)	Progression to post doctoral fellowship	
			fellowship availed	Organisation
1.	Ph.D (Environme	N. Rajasekhar (ICAR-JRF)	Post-doctoral Fellowship	Manchester Interdisciplinary

	ntal Science)			Biocentre, Faculty of Life Sciences, University of Manchester, U. K
2.	-do-	A. Archana (UGC-JRF/SRF)	Post-doctoral fellow.	Department of Microbiology and Cell Science, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, USA
3.	-do-	K. Arunasri (CSIR-SRF)	UGC- Dr. D. S. Kothari postdoctoral fellowship	Department of Plant sciences, University of Hyderabad.
4.	Ph.D (Biotechnology)	T.N.R. Srinivas (CSIR JRF/SRF)	Research Associate (CSIR)	Centre for Cellular and Molecular Biology, Hyderabad
5.	-do-	P. Anil Kumar (CSIR JRF/SRF)	Research Associate (CSIR)	Centre for Cellular and Molecular Biology, Hyderabad
6.	Ph. D (Environmental Science)	Girija, K. R. (Teaching Assistantship)	Research Associate (CSIR)	Centre for Cellular and Molecular Biology, Hyderabad
7	Ph. D (Environmental Science)	J.S. Sasi Jyothsna (CSIR-SRF)	UGC- Dr. D. S. Kothari postdoctoral fellowship	Department of Plant sciences, University of Hyderabad.
8	Ph. D (Biotechnology)	V. Venkata Ramana (CSIR-SRF)	UGC- Dr. D. S. Kothari postdoctoral fellowship	Department of Plant sciences, University of Hyderabad.
9	Ph. D (Biotechnology)	KVNS. Lakshmi (CSIR-SRF)	UGC- Dr. D.S. Kothari postdoctoral fellowship	Department of Plant sciences, University of Hyderabad.
10	Ph. D (Environmental Science)	P. Shalem Raj (JNTU-JRF)	Postdoctoral fellow	Division of Biotechnology, College of Environmental and Bioresource Sciences, Chonbuk National University, Iksan Campus, 79, Gobongo-ro, Iksan 54596, Republic of Korea

11	Ph. D (Biotechnology)	E V V Ram Prasad (CSIR-SRF)	DBT - Research Associate (RA).	Department of Plant sciences, University of Hyderabad, Gachchibowli, Hyderabad.

Current Placement of Doctoral fellows graduated from the lab

S. No	Degree	Name of the doctoral fellow and fellowship availed	Present Position	Organisation
1.	Ph.D Environmental Science	Dr. N. Rajasekhar (ICAR-JRF)	Director (Founder Director),	HelpBiotech Education and Research Private Limited, Hyderabad 2000 pnandaraj@gmail.com www.helpbiotechacademy.com
2.	-do-	Dr. A. Archana. (UGC-JRF/SRF)	Associate in Research	Department of Microbiology and Cell Science, Institute of Food and Agricultural Sciences, University of Florida, Gainesville USA archanaap9@gmail.com
3.	-do-	Dr. P. Nanda Devi	Director (Founder Director)	helpBIOTECH Academy, Hyderabad Ground Floor, Sakuntala Sree Nivas HNo: 6-4-491/5, Opp. New Gandhi Hospital (OPD Unit) Lane Krishna Nagar Colony Bholakpur, Musheerabad HYDERABAD - 500080
4.	-do-	Dr. K. Arunasri (CSIR-SRF)	Scientist	Prof Brien Holden Eye Research Centre, L.V. Prasad Eye Institute, Hyderabad. 040-30612517, drarunasri@lvpei.org

5.	Ph.D Biotechnology	Dr. T.N.R. Srinivas (CSIR JRF/SRF)	Senior Scientist	National Institute of Oceanography, Regional centre, Visakhapatnam e-mail: tanuku@nio.org Telephone: 91-891-2514018-308 Fax: 91-0891-2543595
6.	-do-	Dr. P. Anil Kumar (CSIR JRF/SRF)	Senior Scientist	Microbial Type Culture Collection IMTECH, Chandigarh. India 0172-6665728 email ID.: apinnaka@imtech.res.in
7.	Ph. D Environmental Science	Dr. Girija, K. R (Teaching assistant)	Laboratory Manager	URS testing laboratories, Ware house-64, Jebal ali Industrial area-1, Dubai, UAE. Email: Environmental@urslabs.com Telephone: +971 4 8837115
8.	Ph. D Environmental Science	Dr. P. Aparna (APNL-JRF)	District Sales Manager	Phenomenex India Pvt Ltd, Lakshmi cybercity B Block Kondapur Hyderabad - 500085 Telephone number: 040-30122404 email ID: aparnap@phenomenex.com
9	-do-	Dr. Sivaranjani, G. (Teaching assistant)	Trainer, Special education	Independent consultant
10	Ph. D Environmental Science	Dr. J.S. Sasi Jyothsna (CSIR-SRF)	Assistant Manager, (Environmental Consultancy)	Ramky Enviro Engineers Ltd, 12th Floor, Ramky Grandiose, Ramky Towers Complex , Gachibowli, Hyderabad

11	Ph. D Biotechnology	V.Venkata Ramana (CSIR-SRF)	Sr. Scientist	Microbial Type Culture Collection IMTECH, Chandigarh. India Ph.: 0172-6665749 venkat.vemuluri@gmail.com
12	Ph. D Biotechnology	Dr. KVNS. Lakshmi (CSIR-SRF)	UGC- Dr. D.S. Kothari postdoctoral fellow	Department of Plant sciences, University of Hyderabad.
13	Ph. D Environmental Science	Dr.P. Shalem Raj (JNTU-JRF)	Postdoctoral fellow	Division of Biotechnology, College of Environmental and Bioresource Sciences, Chonbuk National University, Iksan Campus, 79, Gobongo-ro, Iksan 54596, Republic of Korea
14	Ph. D Biotechnology	Dr. K. Sucharita (MoES SRF)	Lecturer	Government Degree college, Guntur.
15	Ph. D Environmental Science	Dr. B. Vinay Kumar (JNTU-JRF)	Sample preparation specialist	Phenomenex India Laxmi Cyber City, Ground Floor, B Block, Survey no: 10, Kondapur, Hyderabad 500 084 Tel: 040-3012 2428 Email: vinayB@phenomenex.com
16	Ph. D Biotechnology	Dr. EVV Ram Prasad (CSIR-SRF)	Principal Investigator, DST SERB-NPDF project,	Department of Plant Sciences, University of Hyderabad, Hyderabad-46 Phone: 8179891421 email ID. : ramprasadevv@gmail.com
17	Ph. D Biotechnology	K. Rahul (CSIR-SRF)	Scientist - B	Central Sericultural Research & Training Institute,

				Central Silk Board, Ministry of Textiles: Govt. of India, Berhampore, Murshidabad – 742 101, West Bengal, India +91 8348860853, 9963948598, kamidirahul@gmail.com; rahulk.csb@gov.in
18	Ph. D Biotechnology	Dr. Srinivas, A (CSIR-SRF)	Scientist in R&D	Virchow Biotech Pvt. Ltd, Gagillapur, Hyderabad. Tel no: 9966728022, srinivasarewar@gmail.com

International experience and visits to foreign countries (details of visit, purpose and year of visit)

S.No.	Duration		Institute and the country of visit	Purpose of visit
	From DD/MM/YY	To DD/MM/YY		
1	02-05- 2005	31-5-2005	IFM-GEOMAR Kiel, Germany	DST –DAAD project
2	01-03-2006	25-03-2006	IFM-GEOMAR Kiel, Germany	DST –DAAD project
3	17-3-2016	18-3-2016	University of Osnabruck, Germany	Invited talk and interaction with Prof. Renate Scheibe
4	16-04-2008	14-07-2008	IFM-GEOMAR Kiel, Germany	DBT-Overseas associateship
5	09-08-2009	14-08-2009	Montreal, Canada	Participation at the International symposium on Phototrophic bacteria ISPP 2009 and invited talk and attending meeting of International subcommittee on the6taxonomy of phototrophic bacteria.
6	02-08-2015	6-8-2015	University of Tubingen, Germany	Oral presentation, participation at the International symposium on Phototrophic bacteria ISPP 2015 and Invited talk & meeting of International subcommittee on the taxonomy of phototrophic bacteria.
7	7-08-2015	7-8-2015	University of Stuttgart, Germany	Invited speaker at the Institute of Biomaterials and Biomolecular Systems, and interaction with Prof. Dr. Robin Ghosh.
8	10-08-2015	11-8-2015	University of Gotheborg, Sweden	Invited speaker at the Institute of Biomedicine, and interaction with Prof. Joakim Larsson

9	07-06-2016	9-6-2016	Houston, USA	Oral paper presentation at International Conference on Environmental Science and Technology, ICEST-2016 at Houston, USA
10	10-06-2016	10-06-2016	University of Dayton, USA	Visit to the Department of Life Sciences and Environmental science and interaction with the faculty, Dr. Mark G. Nielson and Dr. Y. Sun.
11	13-6-2017	13-6-20167	University of Cincinati	Visit to the department of environmental science research labs and interactions with Dr. Sorial.
13	13-6-2016	13-6-2017	US Environmental Protection Agency, Cincinati.	Visit to the labs and discussions with Dr. M. Nadagouda regarding possible collaboration in the area of nutrient recovery from waste waters through struvite crystal formation by bacteria.
14	14-06-2016	15-6-2016	Northeastern University, Boston	Invited talk at Department of chemical Engineering, and Interaction with Dr. Edgar Goluch regarding microfluidic devises for one step isolation and purification of bacteria.
15	21-06-2016 to	26-06-2016	Connecticut University, Connecticut, USA	Training course for "Small World Initiative Partner Instructor" and invited talk.