

Curriculum Vitae

Dr. P.VEERA BRAMHA CHARI
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3 years of Post Doctoral Research and 8 Years of Teaching experience

Research Interests

Molecular Microbiology, Environmental Biotechnology and Cancer Biology

Educational Qualifications

- **2001-2006: Ph.D. Microbiology, Goa University**
- **1999-2001: M.Sc. Microbiology, Acharya Nagarjuna University campus, Guntur, Andhra Pradesh, INDIA. Distinction.**
- **1995-1998: B.Sc. Microbiology, Sri Krishna Devaraya University, Anantapur, Andhra Pradesh, INDIA. Distinction.**

Previous Employment Details

1. Post Doctoral Fellow – (Jan 2009- Oct 2009)

Baseline studies on Streptococcal strains in India prior to clinical trials of the Queensland streptococcal vaccine. Research Supervisor: Dr KS Sriprakash, Bacterial Pathogenesis Laboratory, Queensland Institute of Medical Research, Brisbane 4006, Australia.

2. DBT- Post Doctoral Fellow (Jan 2007- Dec 2008)

Molecular Epidemiology of Group A and Groups G/C Streptococcal strains from India". Research Supervisor: Prof. M. S. Shaila, Department of Microbiology & Cell Biology, Indian Institute of Science, Bangalore -560 012.

3. Senior Lecturer, Jan 2006 – Dec 2006 (Temporary service)

Post Graduate Teaching at College level

Overview

International Publications	: 40
National Publications	: 05
Full Length Papers in Proceedings	: 03
Reviews or Book chapters	: 20
International Symposia/Conferences	: 20
National Symposia/Conferences	: 25
UGC-ASC-Orientation Course/RC	: 2
Ph.Ds. Guidance	: 5
MPhil Guidance	: 1
Ph.D.s Submitted	: 1
Projects	: 2
Patents (National)	: 1
Symposia/workshop organized	: 1

RESEARCH GUIDANCE (Ph.D.)

Sl.No	Name of the Research scholar	Dissertation	Degree	Year	Status
1	K.V.Deepika UGC-RGNF-SRF	Microbial Diversity of Krishna River Delta Mangrove Ecosystem Rhizosphere Soils-Bioprospecting For Novel Bioemulsifier Producers	Ph.D	2010-2016	Submitted
2	B.Anand Kumar DST funded Project JRF	Molecular cloning of genes involved in Tributyltin resistance and degradation from bacterial isolates of shipping harbor sediments".	Ph.D	2013-till date	Pursuing
3	AMVN Prathyusha CSIR-UGC JRF	Potential of Mangrove Associated Bacterial Extracts As A Source Of Novel Quorum Sensing Disruptors On The Virulence Of Aquatic And Medical Pathogens	Ph.D	2015-till date	Pursuing
4	Bhargavram	Pathogenicity Studies Of Extracellular Molecules Produced By Pathogenic Salmonella Spp. Isolated From Seafood	Ph.D	2015-till date	Pursuing
5	Triveni	Studies on Molecular Detection and Genotyping of Vibrio pathogens from seafood	MPhil/ Ph.D	2015-till date	Pursuing

Major Research Projects

SN	Project Title	Position	Funding Agency	Amount
1	Molecular cloning of genes involved in Tributyltin resistance and degradation from bacterial isolates of shipping harbor sediments".	Principal Investigator	DST-SERC, Fast track Young Scientist Award from the Govt. of India. The Department of Science and Technology SERB SR/FT./LS/102/2011	24.82 lakhs.
2	Reducing the Human and Environmental Risks of Agricultural Pesticides in Krishna and Guntur Districts: A robust GIS-Based Tool for Priority-Setting	Co-Principal Investigator	DST NRDMS/01/49/014	Rs 12,60 lakhs

Post Doctoral Projects

Project 1: "Baseline studies on Streptococcal strains in India prior to clinical trials of the Queensland streptococcal vaccine.

Project 2 "Genetic diversity of Group A Streptococcus M proteins: a worldwide survey"

Project 3 "A shield and sword approach to control Streptococcal infections"

Dissertations

Ph.D. (2001–2006)

Research Supervisor: Prof. Santosh Kumar Dubey, Professor, Department of Microbiology, Goa University, Goa, India.

Thesis Title: "Characterization of marine bioluminescent bacteria (*Vibrio harveyi*) under the stress of metallic and organo-metallic environmental pollutants".

M.Sc. Dissertation (Project):

Title: "Microbiological analysis of Beer and Fermentation" at Mysore Breweries Limited, Jalahalli (west), Bangalore, India (Dec: 2000 - Feb 2001).

Supervisor: Dr. Subroto Cariapa, Brewmaster. Mysore Breweries Limited.

Teaching Experience

1. (2002–2006) Laboratory Instructor & Sessional Lecturer
Basic and Molecular Genetics, Advances in Genetic engineering, Agricultural Microbiology, General Microbiology and Virology, Medical Microbiology, Microbial Biochemistry and Industrial Microbiology. Microbial Adaptation, and Microbial Physiology, Medical Microbiology, Microbial Biochemistry. Prof. S.K. Dubey, Department of Microbiology, Goa University.
2. Senior Lecturer, Jan 2006 Dec 2006 (Temporary service)
Department of Microbiology, Post Graduate College, AP, General Microbiology and Virology, Microbial Biochemistry and Industrial Microbiology and Microbial Physiology
3. Asst. Professor, Department of Biotechnology, Krishna University, Machilipatnam, AP. (23rd Sept 2009–23rd Sept 2013) (Microbiology, Molecular Virology, Tools and Techniques, Biomembranes & Bioenergetics, Microbial Biotechnol, Environmental Biotechnol, IPR, Agriculture Biotechnol, Bioprocess Engg).
4. Asst. Professor (Senior Scale), Department of Biotechnology, Krishna University, Machilipatnam, AP 23rd Sept 2013 to Till date)

LIST OF RESEARCH PUBLICATIONS-Dr.P.V.BRAMHACHARI

SIGNIFICANT PUBLICATIONS

1. Sangham, S Jayasree, D., Janardhan Reddy, K, **Bramhachari, P. V.**, Sreenivasulu, N. and Kavi Kishor P.B. 2005. Salt tolerance in plants-Transgenic approaches. *J. Plant. Biotechnol* (7) 1-15. (**Impact Factor 2.12**).
2. **Bramhachari, PV** and Santosh Kumar Dubey 2006. Isolation and characterization of exopolysaccharide produced by a marine bioluminescent bacteria *Vibrio harveyi* VB23. *Lett. Appl. Microbiol.* 43: 571-577. (**Impact Factor 1.7**).
3. **Bramhachari, PV** and Santosh Kumar Dubey. 2006. Rapid and specific detection of luminous and non-luminous *Vibrio harveyi* isolates by PCR amplification. *Current Science*, 90: 8, 25. (**Impact Factor 0.9**).
4. **Bramhachari, PV**, Kavi Kishor, P.B. Ranadheer, Ramadevi, R, Rama Rao, Santosh Kumar Dubey. Isolation and characterization of mucous exopolysaccharide produced by a *Vibrio furnisii* VB053. *J. Microbiol. Biotechnol.* 2007 17, 1:44-51. (**Impact factor 2.062**).
5. **Bramhachari, PV**, Santosh Kaul, David J. McMillan, M. S. Shaila, M. G Karmarkar and K. S. Sriprakash (2010). Disease burden due to *Streptococcus dysgalactiae* subsp. *equisimilis* (group G and C streptococci; GGS/GCS) is higher than due to *S. pyogenes* among Mumbai school children. *J. Medical Microbiol* 59: 220-223. (**Impact Factor 2.27**).

6. David J. McMillan, Santosh. Y. Kaul, PV. **Bramhachari**, Therese Vu, M. S. Shaila, M. G Karmarkar and K. S. Sriprakash. (2010). Molecular markers for discriminating *Streptococcus pyogenes* and *S. dysgalactiae* subspecies *equisimilis*. *Eur J. Clin Microbiol Infect Dis* 2010; 29, 5, 585-589. (**Impact Factor- 3.40**).
7. David J McMillan, Santosh Kaul, PV **Bramhachari**, MG Karmarkar, MS Shaila, KS Sriprakash. Recombination drives genetic diversification of *Streptococcus dysgalactiae* subspecies *equisimilis* in a region of streptococcal endemicity" *PLoS ONE* 6(8): e21346. doi:10.1371/journal.pone.0021346. (**Impact Factor 4.5**).
8. Obulesu M, Dowlathabad Muralidhara Rao and P.V. **Bramhachari**. 2011. Carotenoids and Alzheimer's disease: An insight into therapeutic role of retinoids in animal models. *Neurochemistry International*-59(5):535-41. (**Impact Factor 3.6**).
9. M.S.L. Sunita, S. Prashant, Nataraj Sekhar P, PV. **Brahma Chari**, S. Nageswara Rao, B. N Padma and P.B. Kavi Kishor (2011). Molecular identification of arsenic-resistant estuarine bacteria and characterization of their ars genotype. *Ecotoxicology* 21(1), 202-212 (**Impact Factor 3.1**). (**Springer**)
10. **Bramhachari, PV**, J. Ravichand, K.V. Deepika, P. Yalamanda and K.V. Chaitanya. 2012. Differential responses of marine sediment bacteria *Pseudomonas stutzeri* strain VKM014 to chromate exposures. *Res J. Microbiol*,1-9 (**Science Alert**)
11. P.V.**Bramhachari**, K.V.Deepika, B. Vijaya Lakshmi, M. Obulesu and Y.H.K.Reddy.2012. *In vitro* biofilm forming capacity on abiotic contact surfaces by *Vibrio harveyi* strains that are frequently associated with disease outbreaks (*J.Coastal life medicine*).
12. Nagaraju, G. P.C., Bramhachari, P. V., Raghu, G., & El-Rayes, BF. (2015). Hypoxia inducible factor-1a: Its role in colorectal carcinogenesis and metastasis. *Cancer letters*, 366(1), 11-18.(**Impact Factor 6.0**).(Elsevier).
13. **Bramhachari, P. V.**, Chandrasekhara Reddy, M., & Murthy, K. S. R. (2015). Optimized plant tissue culture protocol for in vitro morphogenesis of an endangered medicinal herb *Ceropegia ensifolia* Bedd. *Tropical and Subtropical Agroecosystems*, 18(1).
14. Deepika, K. V., Sridhar, P. R., & Bramhachari, P. V. (2015). Characterization and antifungal properties of rhamnolipids produced by mangrove sediment bacterium *Pseudomonas aeruginosa* strain KVD-HM52. *Biocatalysis and Agricultural Biotechnology* (2015)608-615.(Elsevier). (**Impact Factor 1.0**).
15. K.V.Deepika, P. Ramu Sridhar, P.V. **Bramhachari**. Optimization of rhamnolipid biosurfactant production by mangrove sediment bacterium *Pseudomonas aeruginosa* KVD-HR42 using response surface methodology. *Biocatalysis and Agricultural Biotechnology*.(5 (2016) 38-47 -(Elsevier). (**I. Factor 1.0**).
16. Suresh G, Sravanthi M, B. Saradamma, P. Sreenivasa Rao, Prathap Naidu B, P.V.**Bramhachari**, N Narayana, S.Shivaji, Manjula B, Varadacharyulu N, 2016. Manganese-Superoxide Dismutase (Mn-SOD) over expression is a common event in colorectal cancers with mitochondrial microsatellite instability. *Tumor Biology* (**Springer**) DOI 10.1007/s13277-016-4918-0.(**Impact Factor 4.0**).
17. **Bramhachari, P. V.**, Reddy, D. R. S., & Kotresha, D. (2016). Biodegradation of catechol by free and immobilized cells of *Achromobacter xylosoxidans* strain 15DKVB isolated from paper and pulp industrial effluents. *Biocatalysis and Agricultural Biotechnology*.7:36-44.
18. Siddhartha E, P.V.Bramhachari and Ramakrishna V.2016. Evaluation of phytochemical composition, anti-oxidant and anti-bacterial activities of routinely used culinary Indian spices. *Amercian J. Biochem Mol Biol* (**Science alert- In press**). (**Science Alert**)
19. Ch.Vivek, K.Veeraiah, P. Padmavathi, H. Dhilleswara Rao, P.V.**Bramhachari**. 2016. Acute toxicity and residue analysis of cartap hydrochloride pesticide: Toxicological implications on the fingerlings of fresh water fish *Labeo rohita*. *Biocatalysis and Agricultural Biotechnology*-(Elsevier). (**Impact Factor 1.0**).
20. K.V.Deepika, M.Raghuram and P.V.**Bramhachari**. 2016. Biological responses of symbiotic *Rhizobium radiobacter* strain VBCK1062 to the arsenic contaminated rhizosphere soils of Mung bean. *Ecotoxicol Environ Safety*) (**Elsevier IF 3.26**).
21. P.V.**Bramhachari**. 2016. Next- Generation sequencing of Nucleic Acids- Technology and Applications *Royal Society Interface* (Under review). (**IF 4.0**).
22. Swathi Putta, Nagendra Sastry Yarla, Ilaria Peluso, Veera Brahma Chari P, GCNP Raju, Dinesh Kumar Tiwari, Priyanka Voori Giri, G.V.Reddy, Gjumrakch Aliev, Anupam Bishayee.2016 Anthocyanins: Possible

role as multitarget therapeutic agents for prevention and therapy of chronic diseases. *Current Medicinal Chemistry (IF 2.6)*.

23. K.V. Deepika and P.V. **Bramhachari**.2016. Rhamnolipid biosurfactant production by *Pseudomonas aeruginosa* strain KVD-HR42 isolated from oil contaminated mangrove sediments. *Braz. J. Microbiol (Elsevier)*.
24. Gopinath M. Sundaram and P.V. **Bramhachari**.2016. Interplay of transcription factors NF- κ B/STAT3 and non-coding RNAs in oesophageal squamous cell carcinoma. *Cancer Letters (Elsevier)*.
25. T.Sathish, R.S. Prakasham, M.Madhavi and P.V.**Bramhachari**.2016. Superimposed RSM Optimization method for enhanced L-Glutaminase Production by *Bacillus subtilis* strain RSP-GLU MTCC 9727. *Braz. J Microbiol (Elsevier)*.
26. Suresh G, Srinivas K, Mounika M, P.V. **Bramhachari** ; Raghava Rao T, Varadacharyulu N. 2016. Influence of Autocrine Growth Hormone on NF- κ B activation leading to Epithelial Mesenchymal Transition in mammary carcinoma *Tumor Biology (Springer) (Impact Factor 3.0)*.
27. Nagaraju, G. P.C., **Bramhachari**, P. V.2016. Next-Generation Sequencing of Nucleic Acids: Technology and Applications. *Journal of the Royal Society Interface (Impact Factor 4.0)*.
28. **Bramhachari**, P. V, AMVN Prathyusha and Nagaraju, G. P.C.2016. Hypoxia inducible factor-1 α : its role in esophageal malignancy. *(Under review Elsevier)*

OTHER PUBLICATIONS

29. **Bramhachari**, PV, Ramadevi R, Santosh K. Dubey and P.B Kavi Kishor. Cyanobacterial metallothioneins - Structure, Functions and Future prospects. *Proc. A. P. Academy of Sciences, Hyderabad*. 11 (1) 2007: 1-15.
30. Sunilbabu K, K. Ammani, Varaprasad B and PV. **Bramhachari**. Inhibition of plant pathogenic fungi by ethnobotanically selected plant extracts. *J. Pharmacy Research* 2010, 3(9), 2334-2336. *(Impact Factor-1.09)*. (Elsevier).
31. Sunilbabu K, K. Ammani, Varaprasad B and PV.**Bramhachari**. Antibacterial activity screening of few medicinal plants from the Southern Region of India. *J. Pharmacy Research* 2010, 3(10), 2453-2456. *(Impact Factor-1.09)*. (Elsevier).
32. **Bramhachari**, PV, Y H K Reddy, D. Kotresha and Varaprasad B. Phytochemical examination, Antioxidant and radical scavenging activity of *Aegle marmelos* (L.) Correa extracts. *J. Pharmacy Research* 2010, 3(12), 3023-3025. *(Impact Factor-1.09)*.
33. **Bramhachari**, PV, J. Ravichand, YHK Reddy, D. Kotresha, K. Viswanatha Chaitanya and Varaprasad Bobbarala. Evaluation of Hydroxyl radical scavenging activity and HPTLC fingerprint profiling of *Aegle marmelos* (L.) Correa extracts. *J. Pharmacy Research*. 2011, 4(1), 252-255. *(Impact Factor-1.09)*. (Elsevier).
34. M.V. Basaveswara Rao, A.V.D. Nagendrakumar, M. Sivanadh, PV.**Bramhachari** and Varaprasad B. Development of new Reverse phase - HPLC method for analysis and assay of Zopiclone in Formulation. *J. Pharmacy Research* 2011, 4(1), 248-249. *(Impact Factor-1.09)*. (Elsevier).
35. Rishab Lakhtakia, M.Taraka Ramji, K. Lavanya K. Rajesh Kannan Jayakumar, C. Sneha, A. Narayan, B. Ramya G. Ramana, P.V.**Bramhachari** and K.V. Chaitanya. The Role of Antioxidants in Human Health Maintenance: Small Molecules with Infinite Functions. *Int J. Pharma Science and Research*. 2011; Vol. 2(6): 1395-1402. (Elsevier).
36. P.V.**Bramhachari**, B.Vijayalakshmi, K.V. Chaitanya J. Ravichand 2011. Biofilm Formation of Halophilic *Vibrio harveyi* strain Vh265 on Various Food Contact Surfaces. *World. J. Fish Mar Sciences* 3 (6): 553-558.
37. G. Ramana, P.V.**Bramhachari** and K.V. Chaitanya. 2012. Modeling of Arabidopsis and Soybean Thiamine Pyrophospho Kinase Genes " *J Adv Bioinfo Appl and Research*.(3:2, 294-303).
38. Sunil Junapudi, J Yasodhara Krishna, P V. **Bramha Chari et al.**. 2013. Evaluation of Antiarthritic Activity of Ethanolic Extract of *Tephrosia purpurea* (Linn.). *Inventi Rapid: Ethnopharmacology*, 2013(4):1-4.

39. Kotresha D and PV **Bramhachari** 2013. Degradation of Catechol By *Achromobacter* Sp. Strain Isolated From Industrial Effluents *International Journal of Bioassay* (02), 12.
40. P.V. **Bramhachari**, B. Anand Kumar, K.V. Deepika and S. Gnanender 2014. *Alcaligenes* sp. strain VBAK101: a potent tributyltin chloride (TBTCI) resistant bacteria isolated from Vishakhapatnam shipping harbour sediments. *Research Journal of Microbiology*. DOI:10.3923/jm.2014. (Science Alert)
41. K.V. Deepika, B. Anand Kumar, S. Gnanender and P.V. **Bramhachari** 2014. *Pseudomonas aeruginosa* KVD1 an efficient biosurfactant producing bacteria isolated from Krishna Delta Mangrove sediments. *Research Journal of Environmental Science*:10.3923/rjes.2014. (Science Alert)
42. J Sunil, Janapati Yasodha Krishna, P.V. **Bramhachari** 2014. **Hepatoprotective Activity of *Holostemma ada Kodian* Shcult, Extract against carbon tetrachloride and Paracetamol induced Hepatic Damage in Rats, *European J. Medicinal Plants* 6: (1), 45.**
43. M. Chandrasekhara Reddy, P.V. **Bramhachari** and K. Sri Rama Murthy. 2014. Micropropagation and conservation of endemic and rare medicinal plant *Ceropegia pullaiahii*. *Phytomorphology: An International Journal of Plant Morphology* 12/2014; 64(3 & 4):113-120.

REVIEWS OR BOOK CHAPTERS:

44. Dubey, S. K and PV. **Bramhachari**, 2006. Cyanobacteria in heavy metal polluted environment: Environmental Biotechnology perspective. pp-225-244. In: Biotechnological applications of cyanobacteria. (Eds. Kiran Singh).
45. **Bramhachari**, PV and Santosh Kumar Dubey 2006. Biochemistry, Molecular Biology of Bacterial bioluminescence and Applications of *lux* genes. (Eds. G. Tripathi) In: Cellular and Biochemical Sciences), IK International, New Delhi. Part II, Chapter 45, P 1027-1044.
46. P.V. **Bramhachari**, Satish Mutyala, Ira Ramjee and Ramjee Pallela. 2014, Novel Insights on the symbiotic interactions of Marine sponge associated microorganisms--Microbial Biotechnology perspective. Marine Sponges: Chemicobiological and Biomedical Applications (CRC Press). *Springer Book chapter*. R. Pallela, H. Ehrlich (eds.), Marine Sponges: Chemicobiological and Biomedical Applications, DOI 10.1007/978-81-322-2794-6_15.
47. Ira Ramjee, Ramjee Pallela and P.V. **Bramhachari** 2014. Chronicles of Sponge biomaterials: the saga in biomedicine. Marine Sponges: Chemicobiological and Biomedical Applications. ISBN:978-81-322-2792-2, *Springer Book chapter*- R. Pallela, H. Ehrlich (eds.), Marine Sponges: Chemicobiological and Biomedical Applications, DOI 10.1007/978-81-322-2794-6_15.
48. Ramjee Pallela, Ira Ramjee, P.V. **Bramhachari**, 2014. Chemistry and biology of marine sponge collagens, Marine Sponges: Chemicobiological and Biomedical Applications. ISBN:978-81-322-2792-2, **Springer Book chapter**- R. Pallela, H. Ehrlich (eds.), Marine Sponges: Chemicobiological and Biomedical Applications, DOI 10.1007/978-81-322-2794-6_15.
49. P.V. **Bramhachari**, Ira Ramjee and Ramjee Pallela. Deep ocean mysteries of marvellous marine sponges and their symbionts. Marine Sponges: Chemicobiological and Biomedical Applications. ISBN:978-81-322-2792-2, *Springer Book chapter*
50. P.V. **Bramhachari**. 2015. Extracellular polysaccharides production by bacteria as a mechanism of metal biosorption and biosequestration in the marine environment. *Springer Book chapter*. ISBN 978-981-10-1042-2
51. K.V. Deepika and P.V. **Bramhachari** 2015. Optimization of cultural conditions for marine microbial biosurfactant production: Applications and Future prospects from untapped marine resources. *Springer Book chapter*- ISBN 978-981-10-1042-2
52. Ira Bhatnagar, Kyong-Hwa Kang, Mani Vasagan, P.V. **Bramhachari**. 2015. Opening avenues in marine probiotics-Present and Future. *Springer Book chapter*
53. T Sathish, Kiran Babu U, P.V. **Bramhachari**, Devarapalli Kezia. 2016. Sequential Optimization Methods for Augmentation of Marine Enzymes Production in Soli State Fermentation: L-Glutaminase Production a Case Study (*Elsevier Book Chapter*). ISBN: 978-0-12-803847-5, ISSN: 1043-4526.
54. P.V. **Bramhachari**. 2016. Current Advances in Biotechnology Driven Marine Microbial Metagenomics. Marine OMICS: Principles and Applications Eds See Kwon Kim (*Elsevier Book Chapter*).

55. Siva Kumar Korada, Nagendra Sastry Yarla , Swathi Putta, Avinash Saab Hanumakonda, B. L. Dhananjaya., Luciana Scotti , Marcus T. Scotti , Gjurmakch Aliev, Mohammad A. Kamal, Aruna Lakshmi K, Da-Yong Lu, George E. Barreto, Ramakrishna Chintala, Shashi Bhushan, **Bramha Chari P.V.**, D. Govinda Rao. 2016. Different food safety and quality management tools to Accomplish food safety (*Elsevier Book Chapter*)
56. **P.V.Bramhachari** 2016. Metagenomic approaches in understanding the mechanism and function of PGPRs and establishing the soil microbial diversity. "Agriculturally important microbes for sustainable agriculture" *Springer Book chapter*.
57. K.V. Deepika and **P.V.Bramhachari** 2015. Current Perspectives on Plant Growth-Promoting Rhizobacterial exopolymeric substances; novel strategies for sustainable agriculture, "Agriculturally important microbes for sustainable agriculture" *Springer Book chapter*.
58. A.M.V.N.Prathyusha G.Triveni and **P.V. Bramhachari**.2016 Novel perspectives of biotic and abiotic stress tolerance in actinobacteria. Actinobacteria: Diversity and Biotechnological applications (*Elsevier book chapter*).
59. Aleem Basha Pinjari and **P.V. Bramhachari**.2016. Detection and Expression of Biosynthetic gene clusters in Actinobacteria. Actinobacteria: Diversity and Biotechnological applications (*Elsevier book chapter*).
60. P.V. Bramhachari, E.Kariali and Aleem Basha Pinjari. 2016. Genomics of actinobacteria with a focus on natural products. Actinobacteria: Diversity and Biotechnological applications (*Elsevier book chapter*).

FULL LENGTH PAPERS IN PROCEEDINGS

61. Deepika KV and **Bramhachari PV** (2015). Biodegradation of petroleum hydrocarbons using microbial consortium isolated from mangrove sediments of Krishna river delta. In: New Horizons in Biotechnology. (Eds. Viswanath B and Indravathi G) Paramount Publishing House, India, pp. 038-040.
62. Deepika KV and **Bramhachari PV** (2015). Characterization of Biosurfactant produced by Bacillus Sp. and its application in microbial enhanced oil recovery, In RTSONPC, Eds Diwakar, India, pp.
63. Deepika KV and **Bramhachari PV** (2015). Optimization of rhamnolipid production by *Serratia marcescens* KVD21 using Response Surface Methodology (RSM) and its application as biocontrol agent, In International conference on Contemporary Research in Chemical and Life Sciences,

Paper's presented in Symposia/Conferences/Seminars Oral/Posters

1. **Bramhachari, PV**, and Santosh Kumar Dubey. 2006. Induction of metal induced stress proteins in bioluminescent *Vibrio harveyi*. Intl. Symp Front. Genetics & Biotechnol, Hyderabad.
2. Sunitha. M.S.L, **Bramhachari, PV**, Jalaja, J and Kavi Kishor, P.B. 2006. Screening of heavy metal and hydrocarbon tolerance in marine bacteria. Intl. Symposium on Frontiers in Genetics and Biotechnology, Hyderabad.
3. **Bramhachari, PV**, Santosh Kaul, B. Malathy, D. Prabhu, M. S. Shaila, Thangam Menon, M. G. Karmarkar, Kadaba S. Sriprakash and David J. McMillan: June 22- 26 2008. A Two Centre study of Streptococcal diversity in India" within the XVII Lancefield International Symposium on Streptococci and Streptococcal Diseases (XVII LISSD).
4. David J McMillan, **PV Bramhachari**, M G Karmarkar, Santosh Y Kaul, M, S Shaila and K S Sriprakash. Multilocus sequence typing of intercontinental isolates of group G and C streptococcus. 110th General Meeting of the American Society of Microbiology, May 23-27, 2010, San Diego, CA, USA.
5. N. Manjusha, Razia Sultana and **PV Bramhachari**. *E-Metagenomics-exploring* the phylogeny and biochemistry of unculturable bacteria BIOSASTRA-National Seminar Feb 3rd 2010.
6. KV. Deepika, B.Vijayalakshmi and **PV. Bramhachari**. Molecular Tools for Screening Biodiversity attributes in the Wetland Ecosystem. National seminar on "Lake Kolleru- The Wetland Ecosystem: Conflict between Environ & Development" during 2nd & 3rd February, LKCDE- 2011, Machilipatnam.

7. B. Prudvilal, A. Sivaram and **PV. Bramhachari**. Biotechnology in Fish Disease Diagnostics: Application of Rapid Molecular tools to surmount the fish farm losses. 2nd & 3rd February, LKCDE- 2011, Machilipatnam.
8. K. Venkat Rao, Yalamanda Peter and **PV. Bramhachari**. Bioprospecting in Wetland Ecosystem - Novel Discoveries at times can change the stumbling future. 2nd & 3rd February, LKCDE- 2011, Machilipatnam.
9. **PV. Bramhachari**. Molecular Cloning of tributyltin (TBT) resistance and degradation genes from two *Alcaligenes* spp. Isolated from a shipping harbor of Goa. Int.Conf. Biodiversity & Aquatic Toxicol, Feb 12-14th 2011, Vijayawada-AP.
10. David J McMillan, B. Beall, **P V Bramhachari**, Candace Ford, Gerod Hall, M G Karmarkar, Santosh Y Kaul, J. Melo-Cristino, Marcos Pinho, M S Shaila, Mario Ramirez, Debra E Bessen and K. S. Sriprakash. An MLST scheme for *Streptococcus dysgalactiae* subspecies *equisimilis*. Palermo, Italy 4-8 September 2011, XVIII Lancefield International Symposium.
11. Mohan Karmarkar, Santosh Kaul, **P.V. Brahmachari**, Vaibhav Deshpande, Archeet Nayar, Kadaba S. Sriprakash, M.S Shaila, David McMillan, Preeti Mehta. Population structure of *streptococcus dysgalactiae* subspecies *equisimilis* from Mumbai school children. Palermo, Italy 4-8 September 2011, XVIII Lancefield International Symposium.
12. K.V.Deepika, Kranthi Kumar, M.Raghuram and **P.V.Bramhachari**. 2011. Production of Extracellular heteropolysaccharides by *Rhizobium* sp. isolated from the root nodules of *Vigna trilobata*. (NCRB-2011).6.12.2011, MITS, Rayagada.
13. K.V.Deepika and **P.V.Bramhachari**.2011.Bioactive Secondary Metabolites from Marine *Pseudomonas* sp. VB104 isolated from mangrove vegetation. Chemistry of Natural Products.28-29.2011, Krishna University, MTM-AP.
14. K.V.Deepika and **P.V.Bramhachari**, National seminar on climate change-impact on bio-resources of coastal areas. 1st & 2nd Feb-2012, Kakinada, P.R. Government College.(ORAL)
15. K.V. Deepika, Palaparathi Peter, B Vijayalakshmi and **P.V. Bramhachari**. Screening for bioemulsifier producing bacteria from rhizosphere sediments of Krishna river delta mangrove ecosystem. International Seminar on emerging threats and challenges to biodiversity: policy framework for sustainable management. 2nd -4th March 2012. S. V.University Tirupati
16. K.V.Deepika and **P.V.Bramhachari**.2012.Screening for bioactive exopolymeric compounds from Marine *Pseudomonas* sp. VB104 isolated from Krishna river mangroves.NSPBB-2012, Dept of Biochemistry, Andhra University.30th may 2012
17. K.V.Deepika and **P.V.Bramhachari**.2012.Bioemulsifier Production by *Pseudomonas* sp. Strains Isolated from Mangrove ecosystem. ETACO 2012- 30-31st Aug 2012, SVU, Tirupathi.
18. K.V.Deepika and **P.V.Bramhachari**.2012. Optimization of mucoid exopolysaccharide production and emulsifying properties in root nodulating bacteria *Rhizobium* sp. VBCK1087. ICAIEB 2012- 26-28th Nov 2012, SVU, Tirupathi.
19. K.V.Deepika and **P.V.Bramhachari**.2012. Production and characterization of an exopolysaccharide from the root nodulating bacterial strain *Rhizobium* Sp. VBKDC108. AP Science Congress.14-16th NOV, 2012 ANU Campus,AP.
20. B.Anand Kumar and **P.V.Bramhachari**.2013. Screening for tributyltin (TBT) resistance and degradation genes from two *Alcaligenes* spp. Isolated from a shipping harbor sediment of western coastal region of Goa. International conference on Biotechnology in human welfare @ Department of biotechnology, Kakatiya University, 7th to 9th February, 2013.
21. KV Deepika, B Anand Kumar and **P.V. Bramhachari**. 2013 *Pseudomonas aeruginosa* KVD3 an efficient biosurfactant producing bacteria isolated from Krishna Delta Mangrove sediments. AP Science Congress-14-16, Nov, 2013, University of Hyderabad.
22. B.Anand Kumar and **P.V. Bramhachari**.2013 *Pseudomonas* sp. strain VBAK, a potent tributyltin (TBT)-resistant bacterium isolated from the HSL shipping harbor sediments AP Science Congress-14-16, Nov, 2013, University of Hyderabad.
23. B.Anand Kumar, M.Madhavi and **P.V. Bramhachari**.2013, *Pseudomonas aeruginosa*, a tributyltin (TBT)-degrading bacterium isolated from the Vishaka shipping harbor sediments National Seminar on Aquatic Toxicology, Biodiversity and Aquaculture (November 15-17, 2013) Acharya Nagarjuna University.

24. B.Anand Kumar, K.V.Deepika and P.V. **Bramhachari**. Tributyltin (TBT) induced exopolysaccharide (EPS) production in *Pseudomonas spp.* strain VBAK101, isolated from Vishaka shipping harbor sediments. Intl Conf. on Environ Biotechnol and Biodiversity (EBIO 2013) Andhra University.
25. K.V.Deepika, B.Anand Kumar and P.V.**Bramhachari**. Rhamnolipid Biosurfactant Production kinetics by *Pseudomonas aeruginosa* strain KVD3 isolated from oil contaminated mangrove sediments, Intl Conf. on Environ Biotechnol and Biodiversity (EBIO 2013) Andhra University.
26. K.V. Deepika, B. Anand Kumar, Ch. Venkateswarlu and P.V. **Bramhachari**.2014. Isolation of bioactive compounds from Marine *Pseudomonas aeruginosa* KVD-HS45 isolated from mangrove vegetation. NATIONAL CONFERENCE ON RECENT TRENDS IN PHYTOCHEMICAL AND PLANT BIOLOGY RESEARCH (RTPPBR SEPT 12TH & 13TH, 2014).
27. R. Naga Amrutha, P.V. **Bramhachari** and P.B. Kavi Kishor .2014. Antioxidant enzyme activity response in rubidium chloride adapted callus cultures of rice (*Oryza sativa L.*). The Department of Biochemistry, Acharya Nagarjuna University is organizing the 21st meeting of TRendys in Biochemistry during 17-18 October, 2014.
28. K.V. Deepika, B Anand Kumar, P. Ramusridhar and P.V. **Bramhachari**. Structural characterization of a rhamnolipid biosurfactant produced by *Pseudomonas aeruginosa* KVD-HM52 isolated from mangrove ecosystems "THE ROLE OF NATURAL PRODUCT CHEMISTRY IN DRUG DISCOVERY" [RNPCCD-2014] organized by Department of Chemistry, Krishna University Machilipatnam, during 11-12th September 2014.
29. KV Deepika, B Anand Kumar and P.V. **Bramhachari**. 2014. Characterization of symbiotically effective arsenate resistant Rhizobium strain VBCK1062 from the roots nodules of arsenic hyperaccumulator *Vigna radiata*. Global Summit on Emerging Science and technology: Impact on environment and human health. Aug, 1-3, 2014, Vikrama Simhapuri University.
30. B.Anand Kumar P.B. Kavi Kishor and P.V. **Bramhachari**.2014. Molecular Cloning of TBTC resistance and degradation gene (tbtA) from *Pseudomonas pseudoalkaligenes* isolated from HSL shipping harbor sediments. Global Summit on Emerging Science and technology: Impact on environment and human health.Aug1-3, 2014, Vikrama Simhapuri University.
31. Indo-US Workshop, Bacterial Antibiotic Resistance and Nanotechnologies September 26 - 28, 2014, Organized By, Dept of Biotechnology, Vikrama Simhapuri University, Nellore, Andhra Pradesh.
32. K.V. Deepika, B. Anand Kumar, Ch. Venkateswarlu and P.V. **Bramhachari**.2014. Isolation of bioactive compounds from Marine *Pseudomonas aeruginosa* KVD-HS45 isolated from mangrove vegetation. NATIONAL CONFERENCE ON RECENT TRENDS IN PHYTOCHEMICAL AND PLANT BIOLOGY RESEARCH (RTPPBR SEPT 12TH & 13TH, 2014).
33. K.V.Deepika and P.V. Bramhachari, Microbial Diversity indices of biosurfactant producing bacteria isolated from oil contaminated mangroves of Krishna river delta. ICAPMR Jan 6-8, 2016, ANU Guntur.
34. K.V.Deepika and P.V.Bramhachari.2016. Molecular dataset diversity indices of biosurfactant producing microorganisms isolated from oil contaminated mangrove sediments of Krishna delta. Andhra Pradesh Science Congress (APSC-2016).
35. A.M.V.N.Prathyusha P.V. Bramhachari. 2016. Screening of mangrove sources for fungal exopolysaccharides (EPSs): Preliminary characterization of crude EPS for biotechnological applications. Andhra Pradesh Science Congress (APSC-2016).
36. G.Triveni and P.V. Bramhachari.2016. Studies on Molecular methods for detection of pathogenic Vibrios in seafood. Andhra Pradesh Science Congress (APSC-2016).

PATENTS

P.Veera Bramha Chari and K.Naga Jogayya. 2016. Novel microsatellite DNA markers for Indian Gharial (*Gavialis gangeticus*) Indian Patent (Under provisional application).

SYMPOSIA/WORKSHOPS ORGANIZED

1. **Joint Secretary:**

National Seminar on Lake kolleru-the wet land ecosystem: conflict between development and environment (LKCDE-2011), Feb 3, 2011,(Worlds Wetland day)

2. Organizing Secretary & Treasurer (WSDS-2016)

Two day national level workshop on Addressing key challenges and problems in surface drainage system of Machilipatnam (18-19th June 2016). In association Krishna University Machilipatnam.

2. Organizing Secretary (NAAC 16)

One day workshop on national assessment and accreditation council (NAAC) AWARENESS will be organized by the IQAC Cell, Krishna University campus, Machilipatnam on 24th September, 2016.

Gene Bank Deposits

Name of the strain	Source	Strain	Gene bank Accession No.
<i>Acinetobacter sp.</i>	16S ribosomal RNA gene, sequence	VKPM45	EF434413
<i>Providencia sp.</i>	do	VKPM23	EF434412
<i>Acinetobacter sp.</i>	do	VKPM14	EF434411
<i>Acinetobacter sp.</i>	do	VKM05	EF108316
<i>Pseudomonas stutzeri</i>	do	VKM014	EF079450
<i>Alcaligenes sp.</i>	do	135402	DQ864660
<i>Alcaligenes sp.</i>	do	259357	DQ864659
<i>Vibrio furnissii</i>	do	VBF20	DQ984524
<i>Aeromonas hydrophila</i>	do	VB102	JN412503
<i>Pseudomonas putida</i>	do	IFO 14164	D37923
<i>Achromobacter xylosoxidans</i>	do	A19	AF439314
<i>Acinetobacter sp.</i>	do	PD12	AY673994
<i>Ensifer adhaerens</i>	do	ATCC 33499	EF198418
<i>Micrococcus sp.</i>	do	MN 8.1d.1c	AJ313024
<i>Alcaligenes faecalis</i>	do	RS-19	AY866407
<i>Marinobacter satoriniensis</i>	do	NKSG1	EU496088
<i>Pseudomonas sp.</i>	do	AH34	FJ621314
<i>Serratia marcescens</i>	do	KVD2	KF434764
<i>Pseudomonas aeruginosa</i>	do	KVD1	KF434763
<i>Acinetobacter sp.</i>	do	KVD3	KF434765
<i>Serratia marcescens</i>	do	KVD21	KF563089
<i>Pseudomonas aeruginosa</i>	do	KVD3	KF563090
<i>Rhizobium sp.</i>	do	VBCK1048	JX844172
<i>Rhizobium sp.</i>	do	VBCK1062	JX844173
<i>Rhizobium sp.</i>	do	VBCK1087	JX844174
<i>Pseudomonas aeruginosa</i>	do	VBAN21	KF551879
<i>Rhizobium sp.</i>	do	101	JX576497
<i>Rhizobium sp.</i>	do	102	JX576498
<i>Rhizobium sp.</i>	do	103	JX576499
<i>Rhizobium sp.</i>	do	104	JX576500
<i>Rhizobium sp.</i>	do	105	JX576501
<i>Rhizobium sp.</i>	do	106	JX576502
<i>Microbulbifer maritimus</i>	do	MTM147	HQ705770
<i>Achromobacter sp</i>	do	15DKVB	HQ448950
<i>Alcaligenes sp</i>	do	16DKVB	HQ448951
<i>Achromobacter xylosoxidans</i>	do	17DKVB	HQ448952
<i>Pseudomonas aeruginosa</i>	do	KVD1	KJ917547

<i>Pseudomonas aeruginosa</i>	do	KVD14-MG	KJ917548
<i>Salinicoccus roseus strain</i>	do	KVD-HS42	KJ872826.1
<i>Pseudomonas sp.</i>	do	VBAK	KF551879.1
<i>Pseudomonas aeruginosa</i>	do	KVD-HS45	KJ872827.1
<i>Vibrio sp.</i>	do	KVD-HL33	KJ872828.1
<i>Vibrio sp.</i>	do	KVD-HL31	KJ872830.1
<i>Vibrio sp.</i>	do	KVD-HL32	KJ872829.1
<i>Vibrio alginolyticus strain</i>	do	KVD-HL42	KJ872831.1
<i>Vibrio sp.</i>	do	KVD-HL41	KJ872832.1
<i>Vibrio sp.</i>	do	KVD-HV32	KJ872833.1
<i>Pseudomonas aeruginosa strain</i>	do	KVD-HR42	KJ872835.1
<i>Pseudomonas aeruginosa strain</i>	do	KVD-HM52	KJ872834.1
<i>Exiguobacterium sp.</i>	do	KVD-HM54	KJ872836.1
<i>Pseudomonas aeruginosa strain</i>	do	KVD-DL31	KJ872837.1
<i>Bacillus sp.</i>	do	KVD-DM52	KJ872838.1
<i>Planococcus maritimus strain</i>	do	KVD-HS41	KJ872839.1
<i>Serratia marcescens strain</i>	do	KVD2	KF434764.1
<i>Acinetobacter sp.</i>	do	KVD3	KF434765.1
<i>Alcaligenes sp. 259357</i>	do	259357	DQ864659.1
<i>Alcaligenes sp.</i>	do	135402	DQ864660.1

NEW SEROTYPES DISCOVERED (*Streptococcus pyogenes*)

stGB211 as new Type stG211.0.

stGB249 as new subtype stGL265.1

stGB148 as new subtype stC2sk.2

stGB264 as new subtype stCNSRT2.1

EDITORIAL BOARD MEMBER

Research Journal of Microbiology

Microbiology Journal

Indian Journal of Biotechnology & Biochemistry (IJBB) GBS publishers

American Journal of Biochemistry and Molecular Biology

Current Research in Bacteriology

Bacteriology Journal

Austin Biomolecules (USA).

Journal Reviewer

1. Biocatalysts and Agriculture Biotechnology (Elsevier)
2. Journal of Microbiology, Biotechnology And Food Sciences
3. J. Environ Biology
4. JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH, PART A (Toxic/Hazardous Substance & Environmental Engineering) Taylor & Francis
5. Current Trends in Biotechnology and Pharmacy

6. Research J. Microbiology
7. Ciencia Journals
8. Biotechnological Research (Sasthra Journals)
9. Science Publishing Group
10. Science alert journals
11. Clean journal Water, Air and Soil (Taylor & Francis)
12. RSC Advances (RSC, Britain)
13. Journal of Hazardous Materials (Elsevier)
14. Ecotoxicology and Environmental Safety(Elsevier)

Training Programs attended

- 1 week training on "Research Animal Handling" (Biosafety guidelines for working with laboratory animals and/or animal tissues, Australian code of practice for the care and use of animals for scientific purposes) at QIMR and The University of Queensland (St.Lucia campus) Brisbane-Australia.
- 1 month training at Bacterial Pathogenesis laboratory, Queensland Institute of Medical Research, Brisbane, Australia) as a Visiting Scientist on Molecular epidemiology of Group A and Group G Streptococci (*emm* typing, *vir* typing, Multilocus sequence typing (MLST).
- 1 month training on Animal Handling at Central Animal Facility, Indian Institute of Science Bangalore.(institutional training mandatory)
- 2 weeks training program on handling pathogenic microorganisms at Dept of Clinical Microbiology, Christian Medical College- Vellore.

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
25 th UGC –Orientation Course	Academic Staff College, JNTU Hyderabad	15-12-2011-11-1-2012.	UGC-ASC
Refresher Course	UGC-ASC-Osmania University, Hyderabad	5-8-2013-28-8-2013.	UGC-ASC
DBT Training program	Pondicherry University	2 weeks	Pondicherry University
186 th NSS Orientation Programme (UTOC) AU	Krishna University, MTM	15-3-2015- 21-03-2015	Andhra University
Workshop on open educational resources for development	Krishna University.MTM	March 2-5, 2015	CEMCA, New Delhi
NAAC awareness workshop	Krishna University.MTM	Feb 5-6, 2015	NAAC, Bangalore
NAAC awareness workshop	Krishna University.MTM	Sept 24, 2016	KRU, MTM
NIRF workshop	Krishna University.MTM	Sept 18, 2016	KRU, MTM

Memberships

- Life member, Society of Biological Chemists (SBC), India.
- Life member, Indian Science Congress (ISC), India.
- AP Academy of Sciences (Associate Fellow)-2016

Fellowships and Awards

- **Awarded** AP Academy of Sciences (Associate Fellow)-2016
- Best paper presentation award for ETACO 2012 National Seminar- 30-31st Aug 2012, SVU, Tirupathi.
- Awarded DST Young Scientist 2012 by the Department of Science & Technology SERC Govt. of India for research grant Rs. 24.82 lakhs.
- Awarded Young Scientist Travel fellowship from The DST, Govt. of India under International Travel Support Scheme (ITS) Committee for attending XVII Lancefield International Symposium held during 22-26 June 2008 at Porto Heli -Greece.
- Awarded Travel scholarship from QIMR, Australia for attending 4th Indo-Australian Biotechnology Conference at Brisbane, Australia.
- Postdoctoral Fellowship from Department of Biotechnology (DBT), Govt of India, Nov 2006 (Department of Microbiology & Cell Biology, Indian Institute of Science, Bangalore).
- Research studentship from Goa University during Ph.D. (Jun 2003 -Feb 2006).
- Second ranker of Acharya Nagarjuna University (Andhra Pradesh; India.) during M.Sc., Microbiology.
- Merit scholarship from Acharya Nagarjuna University Welfare Section, Andhra Pradesh; India during Post Graduation (1999-2001).
- Scored 72 % in Ph.D. Course work, Goa University.
- Merit scholarship from Sri Krishna Devaraya University Welfare Section, Andhra Pradesh; India, during Graduation (1995-1998).
- First ranker of S.S.B.N. College (Andhra Pradesh; India) during B.Sc., Microbiology

Co-Curricular and University Administrative activities

Assistant Director, Directorate of Admissions (KRU CET 2012)
Member in Antiragging Committee (2009-Till date)
Member in Student Discipline Committee (2009-Till date)
Member in Research Committee (2009-2010)
Board of Studies member (KRU affiliated colleges)
Member in Contributory Pension Scheme Committee (2012-Till date)
NSS (National Service Scheme) program officer (2012-2014)
Member of Inspection Committee for Affiliation of College, (2011)
Committee member for evolving reservation policies in M.Phil/Ph.D admissions (2013)
Flying squad for UG Practical exams 2012-13
Flying squad for UG theory exams 2013-14
DRC & FRC member, Department of Biotechnology, KRU Jan 2014-till date
HOD, Dept of Biotechnology 2012-Incumbant
Member Internal Quality Assessment Cell (IQAC)
Member PhD. Application scrutiny
Member Placement Cell, Krishna University
Member: Technology Business Incubation Center, KRU
Member: Centers for excellence, Krishna University
Member, Sports Committee, Krishna University
Course Coordinator, Dept of Botany and Zoology, KRU
Editorial Board member, Krishna Tarangaalu- Krishna University News Letter (2010 - Incumbent)
Member, Central Purchase Committee, Krishna University (2012- Incumbent)
Member, RUSA Committee (2014)
Coordinator, Internal Quality Assessment Cell (IQAC)-2016

Special Assignments

Judge for DST Inspire School Authority - Inspire exhibition and Awards 2015

Presiding Officer: MPTC and ZPTC elections -2015

Presiding Officer: General Elections -2015

Judge for DST Inspire School level science exhibition and Awards 2014-15

Speaker for world environment day, world water day, cancer day, AIDS day etc...

PRESS CLIPPINGS (Marine Environment related news, THE HINDU)

1. Change in feeding habit of dolphins reason for shift to backwaters?
<http://www.thehindu.com/news/national/andhra-pradesh/change-in-feeding-habit-of-dolphins-reason-for-shift-to-backwaters/article6993214.ece>
2. Humpback Dolphins enter backwaters of Masula
<http://www.thehindu.com/news/national/andhra-pradesh/humpback-dolphins-enter-backwaters-of-masula/article6977153.ece>
3. Sea pollution takes toll on turtles
<http://www.thehindu.com/todays-paper/tp-national/tp-andhrapradesh/sea-pollution-takes-toll-on-turtles/article6885489.ece>
4. Four giant jellyfish washed ashore
<http://m.thehindu.com/news/national/andhra-pradesh/four-giant-jellyfish-washed-ashore/article7646789.ece>
5. Larvae fishing proving a threat to prawns
<http://www.thehindu.com/news/national/andhra-pradesh/larvae-fishing-proving-a-threat-to-prawns/article7593294.ece>
6. Manta Ray spreads to A.P. coast, but fishermen not interested
<http://www.thehindu.com/news/national/andhra-pradesh/manta-ray-spreads-to-ap-coast-but-fishermen-not-interested/article7549370.ece>
7. Trapped sharks fetch big bucks for fishermen
<http://www.thehindu.com/news/national/andhra-pradesh/trapped-sharks-fetch-big-bucks-for-fishermen/article7343934.ece>
8. Disease mapping in Krishna, Guntur districts begins
<http://www.thehindu.com/news/national/andhra-pradesh/disease-mapping-in-krishna-guntur-districts-begins/article7182686.ece>
9. Second most poisonous fish enters aqua ponds
<http://www.thehindu.com/news/national/andhra-pradesh/second-most-poisonous-fish-enters-aqua-ponds/article7030739.ece>
10. Masula in race for Marine Research Institute
<http://www.thehindu.com/news/national/andhra-pradesh/masula-in-race-for-marine-research-institute/article6972887.ece>
11. In situ conservation method a boon for Olive Ridley turtles
<http://www.thehindu.com/news/national/andhra-pradesh/in-situ-conservation-method-a-boon-for-olive-ridley-turtles/article8635358.ece>
12. IIT-R to study water drainage system of Masula
<http://www.thehindu.com/news/national/andhra-pradesh/iitr-to-study-water-drainage-system-of-masula/article8748250.ece>
13. Experts for topographical study of Masula
<http://www.thehindu.com/news/national/andhra-pradesh/experts-for-topographical-study-of-masula/article8754616.ece?css=print>

➤ Laboratory/Technical Expertise

➤ Microbiology

Microbial and biochemical tests for identification, Microbiological and Biochemical techniques involved in the brewery. Identification and culturing of fungal isolates, Micrometry, Techniques involved in aerobiology, soil and water Microbiology, Microbial Enzyme assays, Microbial Extracellular Polysaccharides (Bioemulsifiers and Biofilms) and Pigment characterization, isolation and extraction of bioactive compounds from fungi and bacteria, Antibiotic Sensitivity assays, Microbial biodegradation studies. Detection of pathogenic Vibrio species in seafood, Phage assays, Experiments on Food, Soil, Water, Medical and Dairy Microbiology, Microscopy (immunofluorescent microscopy), sample preparation and analysis for Scanning Electron microscopy and Transmission electron microscopy.

➤ Microbial Ecology

Conducted ecological testing, Molecular identification of arsenic-resistant estuarine bacteria and characterization of their ars genotype of different microorganisms from aquatic and soil environments. Enrichment and isolation as well as detection and quantifications of microorganisms from the environment. Amplification of 16sRNA from community DNA using PCR and universal 16sRNA primers. Ribosomal database

➤ Clinical Microbiology

Handling pathogenic microbes, Culture transfer and aseptic techniques, serological and biochemical identification of β -hemolytic Streptococci, Raising antibodies in rabbit, emm typing, vir typing Multilocus sequence typing (MLST), bacteriocin production-BLIS sensitivity assay, in vivo passage of GAS and GGS/GCS Streptococci in mice, Bacterial challenge experiments in various mice genetic backgrounds, Opsonophagocytosis and in vitro bactericidal assays.

➤ Molecular biology and Biochemistry

Extraction of Plasmid DNA and Genomic DNA, RNA from bacterial cells, Restriction mapping, Cloning (pQE, pET, pUC18), Transformation and Screening recombinants, electroporation, Agarose gel electrophoresis, PCR, PCR clean up, DNA sequencing, Protein purification (Large scale protein expression and purification of proteins/vaccine candidates in E.coli, Affinity chromatography (purification of hexa-histidine tagged recombinant proteins) Protein dialysis, quantitation and concentration, SDS-PAGE, Zymography, Coomassie staining, silver staining, Documentation of gels, Western Blotting, Southern blotting, Stripping and re-probing of nitrocellulose membranes, ELISA (direct and indirect), Thin layer chromatography, Column chromatography, Gel Filtration chromatography, Isolation and quantification of Biomolecules- Spectroscopy (UV, IR, Visible and Fluorescence, FT-IR, Luminometry).

➤ Cell Culture

Maintenance of mammalian cell lines (vero, A549) Insect cell lines (sf21, sf9), Transfection.

➤ Animal handling

Animal Handling (Rats, Mice, Rabbits), Biological Characteristics and Data, sexing, breeding, Blood collection and administration of fluids and drugs, Immunization (s/c, i/m, i/d, i/v), passage of virulent bacterial strains in mice. Anesthesia and Analgesia, Euthanasia.

➤ Computational Knowledge

MS-Office 2007, Windows XP and Vista, Open office, Adobe illustrator, Adobe Photoshop, Sigma Plot, ChemsKetch, ChromasPro, DNA and Protein sequence Analysis, Primer 3.0, Mega- Phylogenetic tree, multiple sequence alignment (ClustalW), Sequencher, e-Burst analysis, Graphpad Prism and Origin 7.0pro. Genomic and proteomic tools like BLAST, ExPASy etc.

Invited Guest Lectures

Name of the Programme	Organizer of the programme	Topic
National Seminar on Climate Change, Impact on Bio-resources of coastal areas	Dept of Zoology and Biotechnology, PR Govt College, Kakinada. AP	Application of Molecular Techniques to Answer Ecological Questions
Invited Guest Lecture	SRR CVR Govt College, Vijayawada. AP	Prospectives in Microbiology
Invited Guest Lecture	YVNR Govt College, Kaikaluru. AP	Immunotechniques in aquaculture
Invited Guest Lecture	Kakatiya Govt College Hanamkonda. Telangana	Intellectual Property rights and patent laws in Biotechnology
Invited Guest Lecture	SDMS Mahila kalasala Vijayawada. AP	Research Orientation to Biology students
Invited Guest Lecture National conference on recent trends in photochemical and plant biology	PB Siddhartha College, Vijayawada, AP	Isolation of bioactive compounds from Marine Pseudomonas aeruginosa KVD-HS45 isolated from mangrove vegetation
Invited Guest Lecture	SSBN Degree College Anantapur, AP	Immune evasion mechanism in Mycobacterium tuberculosis and advances in microscopy
Invited Guest Lecture INDO-US workshop on "Bacterial Antibiotic Resistance and Nanotechnologies"	Dept of Biotechnology, Vikrama simhapuri University, AP	Bacterial Antibiotic Resistance and the importance of functional metagenomics
Invited Guest Lecture	Montessori Mahila kalasala Vijayawada, AP	Novel insights in fighting the old enemies
Invited Guest Lecture	Montessori Mahila kalasala Vijayawada, AP	Large scale manufacturing of viral vaccines
Invited Guest Lecture	AGSGS Degree College Vuyyuru AP	Does the bacteria have a chemical language to talk to plants
Invited Guest Lecture World Water day-2016, KRU campus	KRU Campus college	Water scarcity, social stability & adaptive responses in the indian mindsets
Invited Guest Lecture One day seminar on Biohorizons in Biotechnology, 2016	Montessori Mahila kalasala Vijayawada, AP	Zika Viral replication, Immune evasion mechanism
Invited Guest Lecture Sept: 2015	Siddhartha Pharmacy College, Nuzvid	Decoy Molecules: Quorum sensing in pathogenic bacteria
Invited Guest Lecture Feb: 2016	Noble college, Machilipatnam	The Scientific life and innovations
Invited Guest Lecture Sept: 2015	DR.MRAR PG Center, Nuzvid	MYTHS AND FACTS ON RECURRING SWINE FLU OUTBREAKS
Invited Guest Lecture Sept: 2015	PhD Course work, Dept of MCA and MBA, KRU campus college, MTM	An Introduction to Research Ethics
Invited Guest Lecture Sept: 2015	PhD Course work, Dept of MCA and MBA, KRU campus college, MTM	Intellectual property rights, reference manager, grant writing and paper writing
Invited Guest Lecture Sept: 2015	SRR & CVR Govt College, VJD	ZIKAVIRUS INFECTIONS Emerging Public Health Concern in Asian Countries
Invited Guest Lecture 16.07.2016	Andhra Loyola College, Vijayawada	Transgenic Molecular Pharming
Invited Guest Lecture 16.07.2016	Hindu College, Machilipatnam One day workshop	Great scientific discoveries that changed the world.

Collaborations

- Dr. Kotresh- Institute of Research in Molecular Medicine (INFORMM), Universiti sains Malaysia,
- Dr.Ramu Sridhar, HCU, Hyderabad
- Dr.GPCN Raju, Emory University, USA
- Dr.Narayana Sastri, Baylor College of Medicine, USA
- Dr. Raju Sunagar, PhD, Albany Medical College, USA
- Dr.G. Purushotham, Texas, USA
- Dr.S.T. Bharani Kumar, Animal Production and Health Laboratory (APHL), Austria
- Dr. Ira Bhatnagar,CCMB, Hyderabad
- Dr. Thadikamala Sathish, NIOT, Andaman
- Dr. Mohammed Arifullah Universiti Malaysia Kelantan Campus Jeli, Malaysia
- Prof. Kavi Kishor, Dept of Genetics, Osmania University, Hyderabad
- Dr.Uday Shankar, VSU, Nellore.
- Dr.Vijaya, SVU, Tirupathi
- Dr. Chandrajith Lahiri, Sunway University, Malaysia
- Dr.V.Ramakrishna, Yogi Vemana University, kadapa
- Dr.Milind Naik, Goa University, Goa
- Dr.Gopinath, NUS, Singapore
- Dr.E.Kariali, Sambalpur University, Odisha
- Dr.,Santoshi,M, University of California, USA
- Dr.Sandeep.K. University of Orlando, Florida, USA
- Dr.Park, Dong, Emory University, USA

MENTORS

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