

## CURRICULUM VITAE

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3 years of Post Doctoral Research and 8.6 Years of Teaching experience (UGC Pay Scale)

### Research Interests

Molecular Microbiology, Environmental Biotechnology and Cancer Biology

### EDUCATIONAL QUALIFICATIONS

- Doctor of Science (D.Sc) in BIOTECHNOLOGY, Sambalpur University
- Ph.D. MICROBIOLOGY, Goa University
- M.Sc. MICROBIOLOGY, Acharya Nagarjuna University campus, Guntur, Andhra Pradesh, INDIA. Distinction.
- 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	: 90
National Publications	: 01
Full Length Papers in Proceedings	: 04
International Symposia/Conferences	: 22
National Symposia/Conferences	: 23
UGC-ASC-Orientation Course /RC	: 3
Ph.Ds. Guidance	: 6
MPhil Guidance	: 1
Ph.D.s Awarded	: 1
Research Projects	: 2
Patents (National)	: 2
Symposia/workshop organized	: 2

### RESEARCH GUIDANCE (Ph.D.)

SN	Name of the Research scholar	Dissertation Titles	Degree	Year	Status
1	<b>K.V.Deepika</b> UGC-RGNF-SRF	Microbial Diversity of Krishna River Delta Mangrove Ecosystem Rhizosphere Soils- Bioprospecting For Novel Bioemulsifier Producers	Ph.D	2010-2016	Awarded
2	<b>B.Anand Kumar</b> 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	Submitted
3	<b>AMVN Prathyusha</b> CSIR-UGC JRF	Fungal Exopolysaccharides and antioxidant potential from Mangrove Associated Bacteria	Ph.D	2015-till date	Pursuing
4	<b>Bhargavram</b>	Studies Of Extracellular Molecules Produced By Pathogenic Salmonella Spp. Isolated From Seafood	Ph.D	2015-till date	Pursuing
5	<b>G. Triveni</b>	Studies on Molecular Detection and Genotyping of Vibrio pathogens from seafood	MPhil	2015-till date	Submitted
6	<b>Godi Raghu</b> CSIR-JRF	Algal Exopolysaccharides and antioxidant potential from Mangrove Associated Bacteria	Ph.D	2015-till date	Pursuing
7	<b>B.Rohini Krishna</b> DST Inspire Fellowship	Studies on antimicrobial resistance gene(s) in pathogenic strains circulating in aquaculture settings of AP state	Ph.D	2018	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.  Completed
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 12,69 Lakhs
3	Characterization of metal-induced production of exopolymeric substances [eps] in rhizobium strains for crop improvement	Principal Investigator	DST-SERB, Govt. of India	Submitted proposal

## POST DOCTORAL RESEARCH PROJECTS

**Project 1:** "Baseline studies on Streptococcal strains in India prior to clinical trials of the Queensland streptococcal vaccine." The burden of streptococcal diseases due to *Streptococcus pyogenes* (GAS) in the Indian subcontinent still remains high, with number of patients currently suffering with rheumatic fever and rheumatic heart disease. In this project, GAS and GGS strains from different parts of India were collected and a detailed characterization, employing emm typing, vir typing and MLST was done. A detailed comparison of MLST allelic profiles of the Indian isolates and those from non-endemic regions (such as Southern Australia) provided us an insight into the dynamics of population structure of GGS/GCS. Currently the association between GGS and rheumatic fever is at best tenuous. Frequent cross-species lateral transfer of genetic traits, particularly of virulence characteristics, would add weight to the hypothesis that GGS could be involved in rheumatic fever. We identified major emm types and sequence types, in vivo passaging of GAS/GGS isolates, donor screening for opsonisation study against passaged isolates large scale expression and purification of recombinant JJO vaccine candidate. We investigated the antigenic properties of the vaccine candidates and determine whether antibodies raised against candidates bind to the surface of multiple GAS isolates. Finally the efficacy was tested on M-protein based vaccine candidates (rJJO and pJ14) developed on these strains using in vitro protection assay (immunoopsonophagocytosis).

**Project 2** "Genetic diversity of Group A Streptococcus M proteins: a worldwide survey" The GAS M protein is a surface protein, encoded by the emm gene, which acts as a major virulence factor. The M protein typically consists of four repeat regions (NH2-A, B, C and D) which vary in size and amino acid composition of a non structured amino-terminal segment. The amino-terminal part extends into the environment and consists of a non helicoidal non repeated region as well as hyper-variable repeats (A repeats) and semi-variable repeats (B repeats). To evaluate the overall genetic diversity of entire M protein regions throughout the world, a molecular phylogeny analysis of the surface-exposed part of the 249 emm-types described today will be valuable. Multicentric phylogenetic analysis based on the sequence of the whole surface-exposed part of the M protein provides new insights on the genetic diversity of the M proteins that refine the classical emm-typing classification. Since M is a multifunctional protein, taking into account the genetic relationships of the functional domains might help to better characterized the molecular mechanisms of M virulence, the GAS-host interactions as well as to define and evaluate vaccine strategies. This project was done in collaboration between the QIMR, Australia and Bacterial Genetics and Physiology Laboratory (Université Libre de Bruxelles, Belgium).

**Project 3** "A shield and sword approach to control Streptococcal infections" "In this study we identified the major circulating strains of GAS and GGS/GCS in India and determine whether immunization with recombinant JJO vaccine candidate and pJ14 (synthetic peptide vaccine) would protect the mice challenged with 10 major Indian strains of GAS and GGS. Also we determined whether intranasal immunization of mice with *S. salivarius* K30-J14 protects from infection with 10 major Indian strains of GAS and GGS. The final objective in this study included whether intranasal administration of mice with *S. salivarius* K30-J14 clears the established GAS strains pre- inoculated into mice before administration of K30-J14.

## 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 (**Supervisor:** Dr. Subroto Cariapa, Brewmaster. Mysore Breweries Limited).

## CERTIFICATIONS

- "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
- Certification from British Council & Andhra Pradesh State Council of Higher Education (APSCHE) (Common European Framework of Reference- CEFR score B2 English Learner). 2017
- Certification from University of Western Australia, Australia. MOOCS open learning course, Microbiology and Forensic Science 2017
- Certification from Wollongong University, Australia, MOOCS open learning course, Understanding Common Diseases 2017
- Certification from Flinders University, Australia, MOOCS open learning course, Human Body as a Machine 2017
- Certification from University of Dundee, UK, MOOCS open learning course Antimicrobial Stewardship 2017

## 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. (23<sup>rd</sup> Sept 2009-23<sup>rd</sup> 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 23<sup>rd</sup> Sept 2013 to Till date)

## INDIAN PATENTS

1. **P.Veera Bramha Chari** and K.Naga Jogayya Novel microsatellite DNA markers for Indian Gharial (*Gavialis gangeticus*).2017. Indian Patent, Application Number 1407/KOL/2017; Gazette Journal Number:07-KOL/AWD-0176
2. **P.Veera Bramha Chari** and Ramesh Malothu. 2017. Effect of Electromagnetic radiation on the blood DNA profiles of rats) Indian Patent (Under provisional application Ref NO:201741039086).

## 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 furniisii* 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. (**Elsevier IF 1.09**).
18. Siddhartha Eadlapalli, Sarojamma Vemula, **P.V. Bramhachari** and Ramakrishna Vadde, 2016. Biochemical Composition, Antioxidant and Antibacterial Activities of Commonly Used Culinary Indian Spices. *American J. Biochemistry & Mol Biology*, 6: 113-120. DOI: 10.3923/ajbmb.2016.113.120.
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. Deepika, K. V., Raghuram, M., Kariali, E., & **Bramhachari, P. V.** (2016). Biological responses of symbiotic Rhizobium radiobacter strain VBCK1062 to the arsenic contaminated rhizosphere soils of mung bean. *Ecotoxicology and environmental safety*, 134, 1-10. **(Elsevier) IF 3.7**
21. **P.V.Bramhachari and B Pratap Naidu.** 2016. Next- Generation sequencing of Nucleic Acids- Technology and Applications *Royal Society Interface* (Under review). **(IF 4.0).**
22. Suresh G, Srinivas K, Mounika M, **P.V. Bramhachari** ; Raghava Rao T, Varadacharyulu N. 2016. Influence of Autocrine Growth Hormone on NF-κB activation leading to Epithelial Mesenchymal Transition in mammary carcinoma **Tumor Biology (Springer) (Impact Factor 3.0).**
23. Putta, S., Yarla, N.S., Peluso, I., Tiwari, D.K., Reddy, G.V., Giri, P.V., Kumar, N., Malla, R., **Bramhachari, P. V.**, Reddy, D.R. and Bade, R., 2017. Anthocyanins: Possible role as Multitarget therapeutic agents for prevention and therapy of chronic diseases. *Current pharmaceutical design*. <https://www.ncbi.nlm.nih.gov/pubmed/28741457>. **(Bentham) (IF 2.8)**
24. Sundaram, G.M., & **P. Veera Bramhachari** (2017). Molecular interplay of pro-inflammatory transcription factors and non-coding RNAs in esophageal squamous cell carcinoma. *Tumor Biology*, 39(6), 1010428317705760. **(SAGE Publishers) (IF .3.0)**
25. Devarapalli Kezia, Prakasham Reddy Shetty, **Bramhachari P.V.** & Thadikamala Sathish 2017. Multi-objective Based Superimposed Optimization Method for Enhancement of L-Glutaminase Production by Bacillus subtilis RSP-GLU. *Karbala Int. J. Modern Science*. **(Elsevier)**
26. Muppala, S., Konduru, S. K., Merchant, N., Ramsoondar, J., Rampersad, **P.V. Bramhachari C. K.**, Rajitha, B., ... & Mannarapu, M. (2017). Adiponectin: its role in obesity-associated colon and prostate cancers. *Critical Reviews in Oncology/Hematology*. 2017, Vol.116:125-133, doi:10.1016/j.critrevonc.2017.06.003. **(Elsevier).IF 5.09**
27. Deepika, K. V., Raghuram, M., & **Bramhachari, P. V.** (2017). Rhamnolipid biosurfactant production by Pseudomonas aeruginosa strain KVD-HR42 isolated from oil contaminated mangrove sediments. *African Journal of Microbiology Research*, 11(6), 218-231. **(Academic Journals).**
28. Vadde, R., Vemula, S., Jinka, R., Merchant, N., **Bramhachari, P. V.**, & Nagaraju, G. P. (2017). Role of hypoxia-inducible factors (HIF) in the maintenance of stemness and malignancy of colorectal cancer. *Critical Reviews in Oncology/Hematology*, 113, 22-27. **(Elsevier) IF 5.09.**
29. Swathi Putta, Iliara Peluso, Nagendra Sastry Yarla, Eswar Kumar Kilari, Anupam Bishayee, Da-Yong Lu, George E. Barreto, Ghulam Md Ashraf, Luciana Scotti, Marcus T. Scotti, Rajeev K.Singla, Thonos Alexiou, Atanas G.Atanasov, Vadim V. Tarasov, **P.Veera Bramhachari**, Sarat Babu Imandi, Madhuri Chintala, Bechan Sharma, Marcella Reale, Rosanna Filosa, Gjurmakch Aliev and Mohammad Amjad Kamal 2017. Diabetes Mellitus and Male Aging: Pharmacotherapeutics and Clinical Implications. *Current Pharmaceutical Design. Bentham Science.* **(IF 2.8).**
30. N. Venkateswarulu, **P. VeeraBramha Chari**, SK. Thaslim basha, C. Nagaraju, T. Vijaya.2017. Isolation and purification of (E)-3- (2, 3-dihydroxyphenyl) acrylic acid from endophytic fungi *Fusarium equiseti* EF-32 and its anti-candidal and anticancer activities. *Biocatalysis and Agricultural Biotechnology*- **(Elsevier). (Impact Factor 1.0).**
31. A.M.V.N.Prathyusha and **P.V. Bramhachari.** 2017.Characterization and antioxidant properties of Exopolysaccharides produced by mangrove filamentous fungi *Fusarium equiseti* strain ANP2. *Biocatalysis and Agricultural Biotechnology*-**(Elsevier). (Impact Factor 1.0).**
32. Suresh Govatati, Ph.D.; Saradamma Bulle; B Prathap Naidu; Pasupuleti Sreenivasa Rao; Srinivasulu Cheemanapalli; **Veera Bramhachari Pallaval**; Nagesh Narayana; Manjula Bhanoori; Varadacharyulu Nallanchakravarthula; R Rao Tamanam. 2018. Allelic variants of glutathione S-transferase P1 differentially modulates colorectal cancer risk" *Biochemical Genetics* (Under Review).

#### OTHER PUBLICATIONS

33. **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.
34. 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).
35. 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).
36. **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**).
37. **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).
38. 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).
39. 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).
40. **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.
41. 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).
42. 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.
43. Kotresha D and **PV Bramhachari** 2013. Degradation of Catechol By *Achromobacter* Sp. Strain Isolated From Industrial Effluents *International Journal of Bioassay* (02), 12.
44. 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**)
45. 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**)
46. 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.**
47. 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.
48. Junapudi Sunil, Janapati Yasodha Krishna, **P. V. Bramhachari**. Hepatoprotective Activity of *Holostemma ada Kodian* Shcult, Extract against Acetaminophen induced Hepatic Damage in Rats. *Inventi Rapid: Ethnopharmacology*, 2017(1): 1-5, 2016.

## REVIEWS OR BOOK CHAPTERS:

49. Dubey, S. K and P.V. **Bramhachari**, 2006. Cyanobacteria in heavy metal polluted environment: Environmental Biotechnology perspective.pp-225-244.In: Biotechnological applications of cyanobacteria. (Eds. Kiran Singh).
50. **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, Chapter45, P 1027-1044.
51. 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.
52. 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.
53. 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.
54. 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**
55. 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
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83. K.V. Deepika and **P.V. Bramhachari**. 2018. Microbial biosurfactants - A current perspective on environmental applications (VIT Vellore, Springer). Springer Nature Book chapter
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#### **FULL LENGTH PAPERS IN CONFERENCE PROCEEDINGS**

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#### **PAPER'S PRESENTED IN SYMPOSIA/CONFERENCES/SEMINARS ORAL/POSTERS**

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2. **Bramhachari, PV**, Sunitha, M.S.L, Jalaja, J and Kavi Kishor, P.B. 2005. Stress induced protein profiles of *Pseudomonas* sp SS01 grown in presence of different aromatic hydrocarbons. AMI/HYD-2005.

3. Bramhachari, PV, and Santosh Kumar Dubey. 2006. Induction of metal induced stress proteins in bioluminescent *Vibrio harveyi*. Intl. Symp Front. Genetics & Biotechnol, Hyderabad.
4. 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.
5. **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).
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8. N. Manjusha, Razia Sultana and **PV Bramhachari**. *E-Metagenomics-exploring* the phylogeny and biochemistry of unculturable bacteria BIOSASTRA-National Seminar Feb 3<sup>rd</sup> 2010.
9. 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 2<sup>nd</sup> & 3<sup>rd</sup> February, LKCDE- 2011, Machilipatnam.
10. B. Prudvilal, A. Sivaram and **PV. Bramhachari**. Biotechnology in Fish Disease Diagnostics: Application of Rapid Molecular tools to surmount the fish farm losses. 2<sup>nd</sup> & 3<sup>rd</sup> February, LKCDE- 2011, Machilipatnam.
11. K. Venkat Rao, Yalamanda Peter and **PV. Bramhachari**. Bioprospecting in Wetland Ecosystem - Novel Discoveries at times can change the stumbling future. 2<sup>nd</sup> & 3<sup>rd</sup> February, LKCDE- 2011, Machilipatnam.
12. **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 12-14<sup>th</sup> 2011, Vijayawada-AP.
13. 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.
14. 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.
15. 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.
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17. K.V.Deepika and **P.V.Bramhachari**, National seminar on climate change-impact on bio-resources of coastal areas. 1<sup>st</sup> & 2nd Feb-2012, Kakinada, P.R. Government College.(**ORAL**)
18. 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. 2<sup>nd</sup> -4<sup>th</sup> March 2012. S. V. University Tirupati
19. 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.30<sup>th</sup> may 2012

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21. 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- 26-28<sup>th</sup> Nov 2012, SVU, Tirupathi.
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24. 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.
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27. 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.
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29. 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 12<sup>TH</sup> & 13<sup>TH</sup>, 2014).
30. 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.
31. 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" [RNPCDD-2014] organized by Department of Chemistry, Krishna University Machilipatnam, during 11-12<sup>th</sup> September 2014.
32. 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, Nellore.
33. 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, Nellore.
34. **P.V. Bramhachari** Indo-US Workshop, Bacterial Antibiotic Resistance and Nanotechnologies September 26 - 28, 2014, Organized By, Dept of Biotechnology, Vikrama Simhapuri University, Nellore, Andhra Pradesh.

35. 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 (RTPPBRS SEPT 12<sup>TH</sup> & 13<sup>TH</sup>, 2014).
36. 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.
37. 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).
38. 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).
39. G.Triveni and P.V. **Bramhachari**.2016. Studies on Molecular methods for detection of pathogenic Vibrios in seafood. Andhra Pradesh Science Congress (APSC-2016).
40. A.M.V.N.Prathyusha and P.V. **Bramhachari**. EPHH 2017. Characterization and antioxidant properties of eps produced by mangrove fungi *fusarium equiseti*. SV University, Tirupati.
41. A.M.V.N.Prathyusha P.V. **Bramhachari**. 2017. Screening, optimization and antioxidant activities of Exopolysaccharide from mangrove associated fungi .RABT-2017, Thiruvallavur University, Vellore, TN.
42. A.M.V.N.Prathyusha and P.V. **Bramhachari**. EBIO 2017 Purification, Characterization and antioxidant properties of EPS produced by mangrove fungi *Fusarium equiseti* strain ANP2. Andhra University, Visakhapatnam.
43. A.M.V.N.Prathyusha and P.V. Bramhachari. NSSWM 2017. Biodegradation of solid waste low-density polyethylene (LDPE)by the mangrove fungi , Krishna University, Machilipatnam Oct 12-13,2017.
44. A.M.V.N.Prathyusha and P.V. Bramhachari. NSSWM 2017. Municipal solid waste management using potent microorganisms. Krishna University, Machilipatnam Oct 12-13,2017.
45. A.M.V.N.Prathyusha and P.V. Bramhachari. APSC 2017 "Biosorption of Cu<sup>2+</sup> and Cr<sup>6+</sup> by a novel exopolysaccharide from *Fusarium* sp. AP Science Congress 2017, Andhra Pradesh, Visakhapatnam.

#### **Books Published**

1. "Bioluminescent bacteria under the stress of metal pollutants", bearing ISBN 978-3-659-66663-6, LAP LAMBERT Academic Publishing is a trademark of OmniScriptum GmbH & Co. KG, Germany
2. GPCN Raju and PV.**Bramhachari**. 2017. Book Title: Role of transcription factors in Gastrointestinal malignancies. **Springer Nature, Singapore**. <https://www.springer.com/in/book/9789811067273>
3. PV.**Bramhachari**. 2017-18. Insights of Microbial Quorum sensing Molecules and Biofilm Formation. **Springer Nature, Singapore (Under Review)**
4. PV.**Bramhachari**. 2017-18. Recent Advances of Microbial Quorum sensing signaling molecules and Biofilm Formation. **Springer Nature, Singapore (Under Review)**

#### **SYMPOSIA/WORKSHOPS ORGANIZED**

##### **1. Joint Secretary:**

National Seminar on Lake kolleru-the wet land ecosystem: conflict between development and environment (LKDE-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 (18-19<sup>th</sup> June 2016). In association Krishna University Machilipatnam.

##### **3. Organizing Secretary (NAAC 16)**

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

4. **Treasurer** (National Seminar on "Perspectives on Solid Waste Management" (NSSWM-2017) on October 12th & 13th, 2017) Dept of Biotechnology, Krishna University, Machilipatnam.

#### **GENE BANK DEPOSITS**

Acinetobacter sp. EF434413,  
Acinetobacter sp. EF434411,  
Pseudomonas stutzeri EF079450,  
Alcaligenes sp. DQ864659,  
Aeromonas hydrophila JN412503,  
Achromobacter xylosoxidans AF439314,  
Ensifer adhaerens EF198418,  
Alcaligenes faecalis AY866407,  
Pseudomonas sp. FJ621314,  
Pseudomonas aeruginosa KF434763,  
Serratia marcescens KF563089,  
Rhizobium sp. JX844172,  
Rhizobium sp. JX844174,  
Rhizobium sp. JX576497,  
Rhizobium sp. JX576499,  
Rhizobium sp. JX576501,  
Microbulbifer maritimus HQ705770,  
Alcaligenes sp. HQ448951,  
Pseudomonas aeruginosa KJ917547,  
Salinicoccus roseus strain KJ872826.1,  
Pseudomonas aeruginosa KJ872827.1,  
Vibrio sp. KJ872830.1,  
Vibrio alginolyticus strain KJ872831.1,  
Vibrio sp. KJ872833.1,  
Pseudomonas aeruginosa KJ872834.1,  
Pseudomonas aeruginosa KJ872837.1,  
Planococcus maritimus strain KJ872839.1,  
Acinetobacter sp. KF434765.1,  
Alcaligenes sp. DQ864660.1,  
Fusarium equiseti KY560311,  
Fusarium equiseti KY560313,  
Mucor fusiformis KY560315,  
Fusarium equiseti KY560317,  
Providencia sp. EF434412  
Acinetobacter sp. EF108316  
Alcaligenes sp. DQ864660  
Vibrio furnissii DQ984524  
Pseudomonas putida D37923  
Acinetobacter sp. AY673994  
Micrococcus sp. AJ313024  
Marinobacter satoriniensis EU496088  
Serratia marcescens KF434764  
Acinetobacter sp. KF434765  
Pseudomonas aeruginosa KF563090  
Rhizobium sp. JX844173  
Pseudomonas aeruginosa KF551879  
Rhizobium sp. JX576498  
Rhizobium sp. JX576500  
Rhizobium sp. JX576502  
Achromobacter sp. HQ448950  
Achromobacter xylosoxidans HQ448952  
Pseudomonas aeruginosa KJ917548  
Pseudomonas sp. KF551879.1  
Vibrio sp. KJ872828.1  
Vibrio sp. KJ872829.1  
Vibrio sp. KJ872832.1  
Pseudomonas aeruginosa KJ872835.1  
Exiguobacterium sp. KJ872836.1  
Bacillus sp. KJ872838.1  
Serratia marcescens strain KF434764.1  
Alcaligenes sp. 259357 DQ864659.1  
Pencillium oxalicum KY560310  
Pencillium oxalicum KY560312  
Pencillium oxalicum KY560314  
Fusarium equiseti KY560316  
Pencillium oxalicum KY560318

#### **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)
15. Advances in Medical Sciences (Elsevier)
16. Journal of Biomolecular Structure & Dynamics
17. Current Research in Nutrition and Food Science
18. Frontiers in Marine sciences

### **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 <sup>th</sup> UGC -Orientation Course	Academic Staff College, JNTU Hyderabad	15-12-2011-11-1-2012.	UGC-ASC, JNTUH
Refresher Course	UGC-ASC-Osmania University, Hyderabad	5-8-2013-28-8-2013.	UGC-ASC, OU
DBT Training program	Pondicherry University	2 weeks	Pondicherry University
186 <sup>th</sup> NSS Orientation Programme (UTOOC) 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
Master Trainer	APSCHE -British Council	May- June 2017 (12 days)	SPMV, TPT ANU, GNT

Teacher Training	APSCHE -British Council	July 2017 (10 days)	SVIET, Nandamuru
Biotechnology Ignition Grant workshop	Commissionerate of Collegiate Education	31-1-2017	Commissionerate of Collegiate Education, VJD
Indo US Knowledge sharing workshop, EPTRI, Gachibowli	EPTRI, Gachibowli, Hyderabad	Jan 10-11, 2017	EPTRI, Gachibowli, Hyderabad
National workshop on Dissemination of Geospatial technology for development of AP	Krishna University	Jan 19 2017	Andhra Pradesh space application center (APSAC) Vijayawada
National workshop on capacity building in biology and allied sciences	Govt Degree College, Srikakulam	1-3 <sup>rd</sup> April 2017	UGC SERO Hyderabad
Refresher Course	UGC-Maulana Azad National Urdu University, Hyderabad	Nov 30 2017 to Jan 20 2018	UGC-ASC, MANUU

### 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

- **Master Trainer:** AP English communications skills Project. British Council & APSCHE 2017
- **Awarded AP Academy of Sciences (Associate Fellow)-2016**
- Best paper presentation award for ETACO 2012 National Seminar- 30-31<sup>st</sup> 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 4<sup>th</sup> 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 (KRUCET 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-2015 to incumbent  
Editorial Board member, Krishna Tarangaalu- Krishna University News Letter (2010 -Incumbent)  
Member, Central Purchase Committee, Krishna University (2012- Incumbent)  
Member, RUSA Committee (2014) to incumbent  
Coordinator, Internal Quality Assessment Cell (IQAC)-2016 to incumbent  
Coordinator, Campus III, Krishna University, (5<sup>th</sup> nov 2016 to incumbent)

### **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>
14. Two green turtles found dead at Manginapudi beach  
<http://www.thehindu.com/todays-paper/tp-national/tp-andhrapradesh/Two-green-turtles-found-dead-at-Manginapudi-beach/article16956847.ece1>

#### ➤ **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  $\beta$ -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 research	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
INDO-US workshop on "Bacterial Antibiotic Resistance and Nanotechnologies"	Dept of Biotechnology, Vikramasimhapuri 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 Vuyuru 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.
Invited Guest Lecture 13.09.2017	SDMS Mahila kalasala, VJD	The End of Golden Age of Antibiotic Era- A Global Concern
Invited Guest Lecture January 31, 2017	Commisionerate of Higher Education, Vijayawada	Funding Opportunities for Research and Collaboration in the higher education system of India
Invited Guest Lecture Nov 18, 2017	PR GOVT Degree college, Kakinada	Research Publications: Importance of Journal Metrics in research
Invited Guest Lecture Feb 7, 2018 Vruksha 2018	Andhra Loyola College, Vijayawada	Small Talk, Cell-to-Cell Communication Bacteria and plants
Invited Guest Lecture Feb 22, 2018 Oneday national seminar on IPR	KBN College, Vijayawada	Intellectual property rights: New paradigm shifts in India
Invited Guest Lecture April 21, 2017	GOVT Degree college, Rajamundry	Importance of Journal Metrics in research

### 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
- Dr.Veer Bhatt, Hormel Institute-University of Minnesota, USA

### **RESEARCH MENTORS**

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#### **Prof.P.B.Kavi Kishor**

Emeritus Professor, Dept of Genetics, Osmania University, Hyderabad.

#### **Prof. Santosh Kumar Dubey, JSPS Fellow**

Professor & Chairman, Department of Microbiology,  
Goa University, Taleigao Plateau, Goa- 403206,India.

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