

Detailed CV

Name : Mohammed S Mustak

Educational Qualification : MSc, PhD

Designation : Associate Professor

Address for Correspondence: Department of Applied Zoology,
Mangalore University,
Mangalagangothri-574199,
Dakshina kannada, Mangalore

E-mail: msmustak@gmail.com, msmustak@mangaloreuniversity.ac.in

Phone: 0824-2287373



Research Areas

- Origin and affinities of modern human
- Molecular basis of cardiovascular diseases
- Genetic variations and susceptibility/resistance to infectious diseases
- Molecular mechanism of ER stress in neuronal and glial cells
- Neuroprotective effect of natural peptides and compounds on neuronal and glial cells
- Molecular phylogeny of cone snails, butterfly and spider species
- Identification and characterization of natural peptides from conotoxin of cone snails of Lakshadweep Islands

Professional Teaching Experience: 17 years

2016- till date: **Associate Professor**, Department of Applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in). Teaching subjects: Molecular Genetics, Human genetics, Biodiversity, Neurobiology, Animal Physiology, Animal cell Biotechnology

2004-2016: **Assistant Professor** Department of Applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in)

Research Guidance (M.Phil. /Ph.D.):

Mentoring /guidance

Ph.D., Degree (awarded)

<u>Name</u>	<u>Present Affiliation</u>
Jit Chatterjee	Post Doc, University of Washington, School of Medicine in St Louis, USA
Naveen M Rao	Analyst, Med Genome, Bangalore
Ashoka CH	Assistant Professor, Dept. of Zoology, Government Science College, Bangalore
K.Vinutha Lakshmi	

M.Phil Degree awarded

Smitha

Ph.D., Degree (Pursuing)

P.Nagarjuna
Deepak Naik
D. Pradeep
Jaison Sequira
Supreeth Kadkol
Alnoman M T

Research Projects -Completed

- Genomic diversity of population of Lakshadweep Islands (***SERB- New Delhi***)
- The effect of electron beam irradiation on expression of ER stress genes and its modulatory role in oligodendrocytes and axon-glia cells interactions: possible implications for demyelinating disorders(***DAE-BRNS-Mumbai***)
- Butterflies as indicators of Climate Change- study in different eco-climatic areas of Karnataka(***EMPRI-Bangalore***)

Ongoing

- Genomic diversity of Konkani population west coast of India(***Mangalore University***)-ongoing
- Faunal component of MRPL pond - (***MRPL/PilikulaNisarga Dhama -Mangalore***)

Professional Collaboration (if applicable)

International

- Department of Radiation Oncology and Neurology, The Methodist Hospital Research Institute, Texas, United States .
- Department of Human Genetics, University of Chicago, Chicago. United States

National

- Centre for Cellular and Molecular Biology, Hyderabad, India
- Department of Zoology, Banaras Hindu University (BHU), Varanasi, India
- Birbal Sahni Institute of Paleoscience (BSIP), Lucknow, UP, India
- Environmental Management and Policy Research Institute (EMPRI_Bangalore), Dept. of Forest, Ecology & Environment, Government of Karnataka
- TIGS, Centre for In Stem, NCBS campus, Bangalore
- Department of Molecular Biophysics, IISc, Bangalore
- Department of Cardiology, K.S.Hegde Medical Academy, Darelakatte, Mangalore

Research Journal Publications (list)

International

1. Pasupuleti, N., & **Mustak, MS.** (2020). Ancient DNA: revisiting past through population genomics. *Polymorphism*, 5, 45-52
2. **Mustak MS**, Rai N, Naveen MR, Prakash S, Carlus SJ, Pasupuleti N, Srivastava A, Singh PP, Babu I, Dubey PK, Chaubey G, Thangaraj K. The peopling of Lakshadweep Archipelago.**Sci Rep.** 2019; 6 (9): 6968.
3. Nakatsuka N, Moorjani P, Rai N, Sarkar B, Tandon A, Patterson N, Bhavani GS, Girisha KM, **Mustak MS**, Srinivasan S, Kaushik A, Vahab SA, Jagadeesh SM, Satyamoorthy K, Singh L, Reich D, Thangaraj K. The promise of discovering population-specific disease-associated genes in South Asia.**Nat. Genet.** 2017; 49(9): 1403-1407. doi: 10.1038/ng.3917
4. Vinuthalakshmi K, Sheik N, **Mustak MS.** TAS2R38 gene polymorphism and its association with taste perception, alcoholism and tobacco chewing among the Koraga-a primitive tribal population of South west coast of India, **Meta gene**, 2019; 20: 10549
5. Asif M, Bhat S, Nizamuddin S, **Mustak MS.** TG haplotype in the LRP8 is associated with myocardial infarction in south Indian population.**Gene.** 2018; 5: 642:225-229. doi: 10.1016/j.gene.2017.10.037.
6. Chatterjee J, Nairy RK, Langhnoja J, Tripathi A, Patil RK, Pillai PP, **Mustak MS.** ER stress and genomic instability induced by gamma radiation in mice primary cultured glial cells.**Metab Brain Dis.** 2018; 33(3):855-868. doi: 10.1007/s11011-018-0183-9.
7. Chatterjee J, Langhnoja J, Pillai PP, **Mustak MS** Neuroprotective effect of quercetin against radiation-induced Er stress in neurons. *J Biochem Mol Toxicol* .2018. e22242. (**IF 2.97**)
8. Chatterjee J, Prakash P PP, Langhnoja, J., & Mustak, M.S (2019). Gamma-Radiation-Induced Endoplasmic Reticulum Stress and Downregulation of WFS1, Nectin 3, and Sostdc1 Gene Expression in Mice Hippocampus. *Basic and Clinical Neuroscience*, 10(4), 383-392
9. Shah AM, Tamang R, Moorjani P, Rani DS, Govindaraj P, Kulkarni G, Bhattacharya T, **Mustak MS**, Bhaskar LV, Reddy AG, Gadhvi D, Gai PB, Chaubey G, Patterson N, Reich D, Tyler-Smith C, Singh L, Thangaraj K. Indian siddis: African descendants with Indian admixture. **Am J Hum Genet.** 2011;89(1):154-61.
10. Rao SP, Byrappa K, Keerthiraj N, Chatterjee J, **Mustak MS.** Phyto-Fabrication of ZnO Nanoparticles Using Piper betel Aqueous Extract and Evaluation of its Applicability in Dentistry.**PharmNanotechnol.** 2018;6(3):201-208.
11. Shubha P ,Namratha K , Aparna HS , Ashok NR, **Mustak MS**, Chatterjee J, Byrappa K, Facile green reduction of Graphene oxide using Ocimum sanctum hydroalcoholic extract and evaluation of its cellular toxicity . **Materials Chemistry and Physics**, 198 (2017) 66-72.
12. Shubha P, NamrathaK, Chatterjee J, **MustakMS**,Byrappa K, Use of Honey in Stabilization of ZnO Nanoparticles Synthesized via Hydrothermal Route and Assessment of their

Antibacterial Activity and Cytotoxicity. *Global Journal of Nano medicine*; Volume 2 Issue 2 - May 2017 .

13. Chatterjee J, Tripathi A, Patil RK, Pillai PP, **Mustak MS**, Protective effect of quercetin against radiation induced ER stress in glial cells of CNS .*GLIA*65:E103–E578 (2017).
14. **Mustak MS**, Rao TS, Shanmugavelu P, Sundar NM, Menon RB, Rao RV, Rao KS, (2008), Assessment of serum macro and trace element homeostasis and the complexity of inter-element relationships in bipolar mood disorders. *Clinica Chimica Acta*, 394; 47-53. (Impact factor , 3.3)
15. Ezomo OJ, Takahashi K, Horie Y., **Mustak MS**, Meshitsuka S, Circular Dichroism Studies on C-terminal Zinc Finger Domain of Transcription Factor GATA-2, *Yonago Acta medica*, 53. 25-28, 2010 .
16. Shunsuke Meshitsuka, Yuki Horie, Kazuya Takahashi, Ojeiru F. Ezomo, **Mohammed S. Mustak**, Takahisa Ikegami, Tamio Noguchi. Solution Structure of Homeobox Transcription Factor Hex C-terminal Domain of Negatively Charged Activating Function. ADVANCES IN BIOMEDICAL RESEARCH, WSEAS press, 301-306, Feb 2010.; ISSN: 1790-5125; ISBN: 978-960-474-164-9
17. Muralidhar L. Hegde, S Anitha, Kallur S. Latha, **Mahammed S. Mushtak**, Reuven Stein, Ravika Raved, K. S. Jagannatha Rao (2003) “First evidence for helical transitions in supercoiled DNA by Amyloid β peptide (1-42) and Aluminium: A new insight in understanding Alzheimer's disease”, *J. Mol. Neurosci.* 22:67-79. (Impact factor , 2.8)
18. ShanmugaVelu P, Sathyanarayana Rao TS, Hegde ML, **Mustak MS**, Menon RB, Rao RV and Jagannatha Rao (2004), Altered trace elemental homeostasis in neurodegenerative (Alzheimer's and Parkinson's) and neuropsychiatric (bipolar) disorder” In. Neurodegenerative disease: Alzheimers disease(P21-1), *J Neurochem*, (Abstract) 88(Supp.1) 49.
19. **MS. Mustak** and K.S. Jagannatha Rao (2004) “Evidence on DNA topological changes induced by Aluminum and Iron: Relevance to Alzheimer's disease” an abstract for the 34th Annual meeting, Society for Neuroscience, Abstract published in *J Neuroscience* 2004.

National

1. Naik, D. & M.S. Mustak (2020). Additions to known larval host plants of butterflies of the Western Ghats, India. *Journal of Threatened Taxa* 12(1): 15205–15207.
<https://doi.org/10.11609/jot.4770.12.1.15205-15207>.
2. KC Sunil, S Suvarna, RK Nairy, G Chethan, MS Mustak, N Yerol (2020). Facile, cost-effective and eco-friendly synthesis of carbonyl-rich partially reduced graphene oxide using glucose as a sole precursor. *SN Applied Sciences* 2 (8): 1-8.
3. Sunil K C1 , Chethan G 1 , Saritha Suvarna2 , Rajesha K Nairy3 , Mustak M S4 , Jit Chatterjee4 , and Narayana Yerol1 (2019). Synthesis and characterization of Biocompatible $Zn_{0.4}Co_{0.6}Fe_2O_4$ Nanoparticles. *Journal of Emerging Technologies and Innovative Research (JETIR)* 5 (6): 431-433

4. Ashoka CH & Mustak, MS. (2019). Antigenotoxic effects of rutin against methotrexate genotoxicity in Swiss albino mice. *Current Trends in Biotechnology and Pharmacy*, 13, 163-177.
5. Asif M, Bhat S, Nizamuddin S, **Mustak MS**, Association between Myocardial Infarction and Dermatoglyphics: A Cross-Sectional Study, *Journal of Cardiovascular Disease Research*, 2018; 9:109-14. DOI:10.5530/jcdr.2018.1.3
6. Rao SP, Byrappa K, Keerthiraj N, Chatterjee J, **Mustak MS**. Phyto-Fabrication of ZnO Nanoparticles Using Piper betel Aqueous Extract and Evaluation of its Applicability in Dentistry, *Pharm Nanotechnol.* 2018;6(3):201-208.
7. Ashoka CH & **Mustak MS**. Genotoxic Study of Chewing Leaf Tobacco in Swiss Albino Mice. *Int. J. Life. Sci. Scienti. Res.*, 2018; 4(1):1620-1626. DOI:10.21276/ijlssr.2018.4.1.19
8. Naik, D., & **Mustak, M. S.** (2017). Additions to larval host plants of Indian butterflies (lepidoptera). *JBNHS* 112(3) .
9. Naik, D., & **Mustak, M. S.** A checklist of butterflies of Dakshina Kannada District, Karnataka, India. *Journal of Threatened Taxa*, 2016; 8(12): 9491-9504.
10. Gadi, S.D., Vidya, P., **Mustak, MS.**, & Rajashekhar, K. (2015). Foraminifera of Lakshadweep Archipelago, Arabian Sea. *Proceedings of the Zoological Society*, 69, 217-224.
11. Mohthash M, **Mustak MS**, Fasalu R, Fathima F, Abdulla MC, Alungal J, Bhat G, *Genomic interference observed in Triplet repeat primed PCR using Homemade Taq Polymerases. Current Research in Microbiology and Biotechnology* 2014; 2(6): 527-529.
12. **Mustak MS**, Hegde ML, Dinesh A, Britton GB, Berrocal R, Subba Rao K, Shamasundar NM, Rao KS, Sathyanarayana Rao TS. Evidences of altered DNA integrity in the brain regions of suicidal victims of Bipolar Depression. *Indian J Psychiatry*. 2010; 52(3):220-8

Books / Book chapters / Translations published

1. Sunil K C , Rajesha K Nairy , Nagesh Bhat , Praveen Joseph , Saritha Suvarna , **M.S. Mustak** , Jit Chatterjee , and Narayana Yerol (2018). STUDIES ON 3.2 MeV PROTON BEAM INDUCED DNA DAMAGES IN HUMAN BREAST CANCER CELLS USING ALKALINE COMET ASSAY . Recent advances in materials science & Biophysics, Proceedings of International Conference (RAMSB) 2018. (ISBN-978-93-5291-953-6).Pp:412-414.
2. Rajesha K Nairy, Praveen Joseph, Sunil K C, Saritha Suvarna, **M.S. Mustak**, Jit Chatterjee, and Narayana Yerol (2018). CELL INACTIVATION AND OXYGEN ENHANCEMENT RATIO STUDIES ON SACCHAROMYCES CEREVISIAE USING 8 MEV PULSED ELECTRON BEAM. Recent advances in materials science & Biophysics, proceedings of International Conference (RAMSB) 2018. (ISBN-978-93-5291-953-6) Pp: 282-285
3. Sunil K C, Rajesha K Nairy, Saritha Suvarna, **M.S. Mustak**, Jit Chatterjee, and Narayana Yerol (2018). FACILE HYDROTHERMAL SYNTHESIS OF BIOCOMPATIBLE Zn_{0.4}Co_{0.6}Fe₂O₄ NANOPARTICLES. Recent advances in materials science & Biophysics, proceedings of International Conference (RAMSB) 2018. (ISBN-978-93-5291-953-6) Pp: 77-80.

4. Shanmugavelu, ML. Hegde, **M.S. Mushtak**, T.S.S. Rao, R.B. Menon, B. Vengamma, R.V. Rao and K.S.J. Rao, (2001) "The complexity of trace elemental inter-relationships in understanding neuro-degenerative (Alzheimer's, Parkinson's diseases) and neuro-psychiatric (Bipolar) disorder", Proceedings of 3rd International Symposium on Trace metals and Health, Athens, Greece, (Eds) Ermidou S. and Pollet S., pp. 1040-1055.
5. Satya Prasad V, **Mushtak MS**, Bharathi, Muralidhar L. Hegde, Anitha S, Latha KS, Geetha Bali, Sathyanarayana Rao TS and Jagannatha Rao KS (2003) "First Evidence on Aluminium complexes induced topological changes in supercoiled DNA: Relevance to neurological disorders", Proceedings of 4th International Symposium on Trace Elements in Human: New Perspectives, Athens, Greece, (Eds) S. Ermidou-Pollet and S. Pollet, pp. 267-274.
6. **Mustak MS**, S..Sathyanarayana Rao, ShamaSunder, K Subba Rao, K.S. Jagannatha Rao (2007) "Evidence on presence of DNA fragmentation in two-brain region of Bipolar disorder", Proceeding of national seminar on *Genome Analysis Perspective in the Post-Genomic Era and its Relevance to Society*, Hyderabad, India, (Eds)

Papers / poster presentations in Conferences / Seminars / Symposia (list)

International

- **MUSTAK M.S** (2019), Genetic Diversity, Population Structure and Ancestral Origin of Lakshadweep Islanders, National Seminar on Recent advances in Molecular Biology, Kannur University, Nileswaram, Kasaragod, Kerala, 6-8 February
- Jit Chatterjee and **Mustak MS** (2018), Gamma radiation induced DNA damage, ER Stress dysfunction and its protective role by Quercetin in CNS glial cells, International conference on Radiation Biology-Advances in Radiation Biology, radiotherapy and Radiation Counter measures, K.S. Hegde Medical Academy, Deralakatte, Mangalore, India, 4-6 October.
- **Mustak MS**, Naveen M, Rai N, Prakash S, Pasupuleti N, Chaubey G, Thangaraj K (2018), Human genetic origin and affinities of Lakshadweep Islanders, International Conference on Nextgen Genomics, Biology, Bioinformatics and Technologies Conference, Fairmont, Jaipur, India, September 30th to 2nd October.
- **Mustak MS**, Thangaraj K (2018), Presented a paper entitled "Peopling of the Lakshadweep Island: Genetic and cultural view" In 14th FAOBMB congress Nov 2015, Hyderabad, India.
- **Mustak MS**, Naveen M, Rai N, Prakash S, Pasupuleti N, Chaubey G, Thangaraj K (2017) "*Genetic origin and affinities of Lakshadweep Islanders*"-2nd International Conference on *Founders Population*, International conference - The Landscape of Genetic Variants in Asian Founder Populations- from Near to far East, *organized by target conferences Ltd, Israel*, at Crowne Plaza, Kochi, Kerala, 9-12 November.
- **Mustak MS**, Naveen M, Rai N, Chaubey G, Thangaraj K (2017), "*Genetic origin and affinities of Lakshadweep Islanders*" at International conference organized by American Society for Human Genetics (ASHG), held at Orange County Convention Center, **Orlando, Florida, USA** on 17-21 October
- **Mustak MS** (2015). Presented a paper entitled "Cone shells and conotoxin diversity of Lakshadweep islands" International Symposium on Neuropeptides and Neurotransmitters: Role in Physiology and Pathophysiology, NISER, Bhubaneswar, Odisha, India. 13-14 December
- **Mustak MS** (2015). Presented paper on topic titled on "Mitochondrial DNA diversity and its Implications in the Genetic History of three different populations of Amini Islander's of Lakshadweep" International Symposium on "Genomics in Health and Disease" & 40th Annual Conference of Indian Society of Human Genetics (ISHG-2015) 28-30 January, 2015
- **Mustak MS** and Deepak Naik (2015), Presented (oral) paper on "Screening of distribution and extent of damage caused by the banana skipper, *Erionota torus* evans (hesperiidae: Lepidoptera) in Dakshina Kannada district, Karnataka" ADVENTOR 2015 (Advances in Entomological Research) University of Kerala, Department of Zoology on 19-20 March.

- **Mustak MS** (2015) Delivered POSTER PRESENTATION on “Genomics & Proteomics Research” SELECTBIO (Select Biosciences India Private Limited) Sheraton Bangalore Hotel at Brigade Gateway, Bangalore, 28-29 May.
- **Mustak MS (2014)** Presented the paper on Mitochondrial DNA diversity and its implications in the Genetic History of three different populations of Amini Islander of Lakshadweep. Proceedings of *Indian Journal of Human genetics* and International symposium on genomics in health and disease and 40th annual conference of Indian society of human genetics organized by National Institute of Immunohaematology (ICMR), Mumbai, 28 - 30January, OP-19.Supplement 1/2014/Vol 20.
- **Mustak MS** (2014), Presented the paper on ADH1 and ALDH2 gene polymorphisms among the Koraga population of South Karnataka, India, Proceedings of *Indian Journal of Human genetics* and International symposium on Genomics in health and disease and 40th annual conference of Indian society of human genetics organized by National Institute of Immunohaematology (ICMR), Mumbai, January 28-30, P-48. Supplement 1/2014/ Vol 20
- **Mustak MS** (2013) Poster presentation on the topic “The orange Domain of Basic-Helix-Loop-Helix Transcription factor SHARP2 Binds to Class B E-box Sequence Suggests Determinants for Sequence- Specific DNA Recognition” 27th Annual Symposium on the Protein society, Protein Society, Boston Marriott Copley Place Boston Massachusetts USA, 20-23 July.
- Shunsuke Meshitsuka, Kazuya Takahashi, Ojeiru F Ezomo, Yuta Nakamura and **MS Mustak (2011)** “Molecular Mechanism of the Influence of Aluminum on Gene Expression” Ninth Keele Meeting on Aluminum-Aluminum and Life: Living in the Aluminum Age, Niagra-on the –Lake, Ontario, Canada, held during Feb 19 to 23.
- **MS Mustak**, Riyo Yoshikawa, Kazuya Takahashi, Yuta Nakamura, Ojeiru F Ezomo, Kazuya Yamada, Shunsuke Meshitsuka (2010) presented poster on the topic entitled “*The Orange Domain of Basic-Helix-Loop-Helix Transcription factor SHARP-2 binds to class B E-box sequence*” during the 49th Annual Meeting of the *Nuclear Magnetic Resonance Society of Japan*, held on Nov 15th to 17th at Town Hall, Tokyo.
- **Mustak MS** (2009) Presented the paper on titled “Structure and functions of domains of transcription factors studied by NMR spectroscopy and interactome analysis-Analyses of the proteins with GST tag” the 48th Annual Meeting of the Nuclear Magnetic Resonance Society of Japan, organized by Kyushu University, Faculty of Medicine at Fukuoka Japan held during 10 to 12 November.
- **Mustak MS** (2009) Presented the paper titled “NMR studies of the structure of high molecular weight native fucoidan from the brown seaweed (*Cladosiphono kamuranus*)” during the 48th Annual Meeting of the Nuclear Magnetic Resonance Society of Japan, organized by Kyushu University, Faculty of Medicine, at Fukuoka, Japan held during,10 to 12 November .
- **Mustak MS.** and Jagannatha Rao K.S. (2009) : Oral presentation on the topic New insight on DNA topological changes induced by Aluminum; Relevance to Alzheimer’s disease, at International Conference , eight KEELE meeting on Aluminum and natural history of Aluminum from Non-selection to Natural selection, castle Hotel, trest, **Czech Republic**, 21st to 25th Feb.
- **M.S-Mustak**, T.S. Sathyanarayana Rao, P. Shanmugavelu , K.S. Jagannatha Rao(2007), “Assessments of serum trace elemental homeostasis and the complexity of inter-element relations in bipolar mood disorders” Presented the poster in Indo-Australian international conference on “Human variations and pharmacogenomics” held at Manipal Academy of higher Education (MAHE), Manipal, Karnataka, India, 17th to 19th March.
- **Mustak MS** (2006) Presented the poster the topic entitled on “Recent Journey from Africa to India” at **EMBO** (European Molecular Biology Organization) – Workshop on “Human Evolution and Disease” organized by Centre for Cellular and Molecular Biology, Hyderabad, India and The Wellcome Trust Sanger Institute, Cambridge, UK held at CCMB, Hyderabad, India, 6-9 December.

National

- **MUSTAK M.S** (2019), Genetic Diversity, Population Structure and Ancestral Origin of Lakshadweep Islanders, National Seminar on Recent advances in Molecular Biology, Kannur University, Nileswaram, Kasaragod, Kerala, 6-8 February
- M S Mustak(2017) Presented the paper (**Oral**) entitled” The effect of electron beam radiation on expression of ER Sress gene and its modulatory role in Astrocytes” in National conference on

Particle accelerators in Interdisciplinary research (PAIR), organized by dept. of Physics, Mangalore University, April 11-13. M S Mustak (2016) Presented the paper (oral) titled “Association between tobacco and alcohol with C*84G>A mutation risk for myocardial infarction in south Indian population” during national conference on Genetics of Human Diseases at Central University of Kerala, kasaragod, 3-4th Nov

- M S Mustak (2016) Oral presentation on the topic titled- Association study of Ile349val polymorphism of the gene ADH1C at National Conference on “Frontiers in Genetics & Genomics” Department of Genomic Science, Central University of Kerala. 7-8 April.
- M S Mustak (2015) Presented (oral) paper on “Screening of distribution and extent of damage caused by the banana skipper, *Erionota torus* evans (hesperiidae: Lepidoptera) in Dakshina Kannada district, Karnataka” ADVENTOR 2015 (Advances in Entomological Research) University of Kerala, Department of Zoology on 19-20 March.
- M S Mustak (2015) Delivered POSTER PRESENTATION on “Genomics & Proteomics Research” SELECTBIO (Select Biosciences India Private Limited) Sheraton Bangalore Hotel at Brigade Gateway, Bangalore on May 28-29.

Invited / plenary talks delivered

1. 7th Annual Symposium of the **SBC(I) - Coastal Karnataka** Chapter at Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal. SBC (I) Coastal Karnataka chapter, 23rd November 2019
2. National conference on ***Recent advances in Molecular Biology(RAMP) 2019***, Kannur University, Nileswaram, Kasaragod, Kerala, 6-8 February
3. International Conference on ***Nextgen Genomics, Biology, Bioinformatics and Technologies(NGBT)*** Conference, Fairmont, Jaipur, India, 2018, September 30th to 2nd October.
4. International Conference on ***Advance Functional Materials for Energy, Environment and Health Care***, Mysore University, Vijnana Bhavan auditorium, Mansagangothri, Mysore., 18-20, March 2019
5. ***5th Annual Meeting and Symposium SBC (India) Coastal Karnataka Chapter***, Manipal University, Manipal, 5th Nov 2016.
6. National conference on ***Genetics of Human Diseases at Central University of Kerala***, kasaragod, 3-4th Nov 2016
7. International Conference on Advances in Engineering, Research, and Technology (ICETR 2015) 06-07 June, 2015
8. ADVENTOR 2015 (Advances in Entomological Research) Department of Zoology, University of Calicut, 19-20 March, 2015.
9. National conference on “***Genomics: Impact on human health***” at Osmania University, Hyderabad. India. 2-3, Feb 2007
10. National Seminar on “***Probiotic and Food biochemistry-significance and relevance***” held on 17th Feb 2007 at St. Aloysius College, Mangalore, India.

h-index :

i10 index :

Citation index :

Conferences / Seminars / Workshops / Symposia organized

- Organized ***Indian Science Academies’ lecture workshop on Recent Trends in Biological Research: Health and Disease Perspective*** (7-8 Oct 2016) in Mangalore University, Mangalore, where scientists from CCMB-Hyderabad (***Dr. K. Thangaraj***); IISc Bangalore (***Prof. PaturuKondaiah and Prof. K. Somasundaram***) and Manipal University (***Prof. K. Sathyamoorthy***) given lecture and interacted with the University staff and Scientists. More than 150 students and faculty participated from different colleges and universities.

- Organized National Conference in association with **Indian Science Congress Association Bangalore Chapter** on the theme “Reaching the Unreached through Science and Technology : Recent advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment” (8-9 Sept 2017) in Mangalore University, Mangalore, where scientists from Genome Foundation-Hyderabad (Late **Dr. Lalji Singh**); Cambridge, UK (**Dr. Maansa Raghavan**); other eminent scientist from various prestigious institution of the country have given seminars and interacted with the University staff and Scientists. More than 600 delegates participated from different colleges and universities.
- Organized the workshop on **Wildlife photography-Current trends and Techniques**(23 March 2013) in Department of Applied Zoology, Mangalore University, Mangalore. More than 90 students participated the event.
- Organised **Special Lecture** on the topic “**Understanding the Free Radical**” by **Prof(Emeritus). T. Ramasarma, Department of Biochemistry, Indian Institute of Science, Bangalore**, on 14th December 2016. More than 100 students from various colleges and departments were participated the event.
- Organised **Special Lecture** on the topic “**Chemical Communication in Biology**” by the **Padmabhushan Prof (Emeritus) P.Balaram** from **Indian Institute of Science**, Bangalore on 27th February 2017. More than 150 students from various colleges and Departments were participated the event.
- **Organized the International faculty interaction meet** on the theme “**Molecular and Medical Genetics**” at Department of Applied Zoology, Mangalore University on 15th November 2017. The international faculty who delivered talk are **Prof. George Van Driem** (*Chair of Linguistics. University of Bern, Switzerland*); **Dr. Doron M Behar** (*Clalit national Cancer Control & personalised medicine Program, Carmel Medical Center, Haifa, Israel*); **Dr. Chandana Basu Mallick** (*Roslin Institute, Edinburgh, UK*); **Prof. Gyaneshwer Chaubey** (*Estonian Biocenter, Estonia*). More than 150 participants from different colleges and departments were attended.
- Organized **Special Lecture** on the topic “**Oxidative genome damage and repair: ubiquity, complexity and pathological implications**” by **Prof. Sankar Mitra , Dept. of Radiation Oncology ,Houston Methodist Research Institute, USA** on 6th March 2018. More than 120 students from various colleges and departments were participated the event.
- Organized **Special Lecture** on the topic “**Chemistry at the Interface of Biology and Medicine**” by the **Padmabhushan Prof (Emeritus) P.Balaram** from **IISc , Bangalore** on 5th February 2019.

Awards / Fellowship / Recognition (Specify) (if applicable)

- GATE 1999 (Graduate Aptitude Test in Engineering) 1999 .
- CSIR (Council of Scientific and Industrial Research) National Eligibility Test (NET) for Lectureship/Assistant Professorship in Life Sciences, in December 1998.
- Awarded DST-DAAD Fellowship to work in Dr. Thomas Jovin’s Lab, MaxPlank Institute of Biophysical Chemistry, Gottingen, Germany during Jan 2002 to Dec 2003.
- Awarded Postdoctoral Fellowship, Institute for Regenerative Medicine and Biofunction, Graduate School of Medical Science, Tottori University, Yonago, Tottori, 683-8503, Japan during Aug 2009 to May 2011.

- SERB-ITS Travel award” for presentation in ASHG 2017 conference, Orlando Florida. (Oct 2017)
Awarded Indian Sciences Academies’ **Summer Research Fellowship** to work in Indian Institute of Sciences, Bangalore by Indian academy of Sciences, Bangalore, India. 2009
- Awarded Indian Sciences Academies’ **Summer Research Fellowship** to work in CCMB-Hyderabad by Indian academy of Sciences, Bangalore, India. 2011 and 2016.
- **INSA –Visiting Scientist Fellow** from INSA New Delhi to work in Prof. P.Balaram lab at MBU in Indian Institute of Sciences, Bangalore during 2017-2018.
- Received **BEST POSTER AWARD** on 43rd annual meeting of the ISHG meeting on Population and Medical genetics , held at CCMB-Hyderabad, 2018, 12-14 March.

Membership of Professional Bodies

Life member of Society for Neurochemistry (SNCI-APSN) - (India)

Life member of the Indian Society for Human Genetics (ISHG)

Life member of Society of Biological chemist (SBC), Bangalore India

Life member of Indian Science Congress Association (ISCA), Kolkata (2004-05)