

Faculty Profile



Name : Mohammed S Mustak

Designation : Professor and Chairman

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Research Areas : Human Genetics, Genomics, Neurobiology,
Molecular Phylogeny

Link to detailed CV

Bio-data



Personal

Name : Mohammed Shafiul Mustak. B
Date of birth : 11-01-1974
Gender : Male
Father's name : B. Abdul Rasheed
Place of birth : Amini Island, U.T. of Lakshadweep

Academic

Education

1996 Bachelor of Science and Education [BSc.Ed] in **Chemistry, Botany and Zoology** (CBZ) from Regional Institute of Education (NCERT), Mysore.
1999 Master of Science [M.Sc] in **Applied Zoology**, Mangalore University, Mangalore.
2007 **PhD in Biochemistry** - Dept. of Biochemistry and Nutrition, CSIR-Central Food Technological Research Institute (CSIR-CFTRI), Mysore, India.

Position held

Position	Institution	Duration
Professor and chairman	Dept. of applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in)	2019- till date
Associate Professor	Mangalore University	2016-2019
Assistant Professor	Mangalore University	2004-2016

Research interests

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

Membership of professional bodies/Societies

Life member of Society for Neurochemistry (SNCI-APSN) - (India)
Life member of the Indian Society for Human Genetics
Life member of Society of Biological chemist (SBC), Bangalore India
Life member of Indian Science Congress Association (ISCA), Kolkata (2004-05)

RESEARCH BACKGROUND

- 2009-2011: **Postdoctoral Fellow**, Institute for Regenerative Medicine and Biofunction, Graduate School of Medical Science, Tottori University, Yonago, Tottori, 683-8503, Japan
- 2002-2003: **Visiting Research Fellow** in MaxPlank Institute of Biophysical Chemistry, Gottingen, Germany (3 months).
- 2009: Indian Science Academies- Summer Research Fellow at **MRN Murthy**' Lab at MBU in Indian Institute of Sciences, Bangalore (2 months)
- 2013: Indian Science Academies- Summer Research Fellow at **Dr.YogendraSharma's Lab**, CSIR-CCMB, Hyderabad
- 2016: Indian Science Academies- Summer Research Fellow at **Dr.Thangaraj's Lab**, CSIR-CCMB, Hyderabad
- 2017: **INSA –Visiting scientist** Fellow at Prof. P.Balaram lab at MBU in Indian Institute of Sciences, Bangalore during 2017-18.
- 2000-2004: CSIR-JRF-SRF- PhD in Biochemistry, Department of Biochemistry and Nutrition, CSIR CFTRI, Mysore.
- 1999- 2000: JRF, Biological Oceanography, CSIR-NIO, Panjim, Goa.

FELLOWSHIPS AND AWARDS

- 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 to work in Dr. S.Meshitsuka's Lab, 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 meting on Population and Medical genetics , held at CCMb-Hyderabad,2018, 12-14 March.

TEACHING ACTIVITIES

- 2019- till date: **Professor**, Department of Applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in). Teaching Molecular Genetics, Human genetics, Neuroscience, Biodiversity, Animal cell Biotechnology
- 2016- 2019: **Associate Professor**, Department of Applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in). Teaching Molecular Genetics, Human genetics, Neuroscience, Biodiversity, Animal Physiology, Animal cell Biotechnology
- 2004-2016: **Assistant Professor** (Grade-III), Department of Applied Zoology, Mangalore University (www.mangaloreuniversity.ac.in)

SUPERVISION OF GRADUATE, DOCTORAL STUDENTS AND TRAINING

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
Vinutha Lakshmi	
Deepak Naik	Guest faculty, Mangalore University
P.Nagarjuna	Manager in Takara Pvt ltd
Al Noman T	Asst. professor in Baghdad University
Jaison jeevan Sequera	Temporary faculty in Mangalore University
Chandan B S	Asst. Professor, BASE Charitable Foundation, Bangalore

Ph.D., Degree (Pursuing)

<u>Name</u>	<u>Title of the thesis</u>
D.Pradeep	
Supreeth K	
Shivaand Sindre	
Suman	
Kartick	
Kasturi Vadayar	
Mosab	
Ismail	
Akram	

- Supervising **Post graduate students** (Since2004-till present) for their dissertation (as a partial fulfillment of Master degree) in Department of Applied Zoology, Mangalore University Mangalore till date. (Supervised 150 master students till 2026)
- Supervised the one **M.Phil** students and awarded her degree during 2009.
- I am recognized guide for PhD in Applied Zoology, Biotechnology and Biochemistry subjects. **Ten students awarded PhD degree till date** and two students are in verge of completion.

Research grants

- Genomic diversity of population of Lakshadweep Islands (SERB) - **completed**
- The effect of electron beam irradiation on expression of ER stress genes and its modulatory role in oligodendrocytes and axon-glial cells interactions: possible implications for demyelinating disorders(DAE-BRNS) – **completed**
- Butterflies as indicators of Climate Change- study in different eco-climatic areas of Karnataka(EMPRI) –**completed**
- Genomic diversity of Konkani population west coast of India(Mangalore University)- **Completed**
- Understanding fine-scale structure and demography history to infer peopling of Lakshadweep archipelago (SERB) **Completed**

- Protective role of quercetin- poly(n-butylcyanoacrylate) nanoparticles against chemically induced Endoplasmic Reticulum stress in astrocytes (VGST-CISEE) – **Completed**

LEADERSHIP SKILLS

Conferences, Special lectures and Training Courses 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. GyaneshwerChaubey (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.

Publications

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	H Kunhabdulla, R Abdulla, M D Lakshmanan, R Thomas, D Jayarajan, V Jain, A Fahizah, M S Mustak, R Das	Genomic landscape of oral squamous cell carcinoma from the southwest coast of Karnataka: insights from FFPE-based next-generation sequencing	Frontiers in Genetics	17	1739925	2026
2	H Kunhabdulla, R Abdulla, R Thomas, D Shetty, M S. Mustak, and R Das	Whole-Exome Sequencing Identifies Recurrent Germline-Associated and Somatic Variants in Oral Squamous Cell Carcinoma from Southwest India	MDPI- biomedicine	14		2026
3	H Kunhabdulla, M Kashyap, M S Mustak, R T Mathew, A Khattri, HT Marc Timmers, S Nizamuddin, R Abdulla	The somatic and germline mutational landscape of HPV-negative oral cancer patients with a history of chewing tobacco and betel nut use	medRxiv	-	26344267	2026
4	van Driem G, Sequeira JJ, Krishna S, Mustak MS, Das R	Chronological frameworks for Indo-European languages: Insights from linguistics,	European Journal of Human Genetics	-	-	2026

		archaeology and genomics				
5	Aziz RA, Venugopal DM, Kudva AK, Hanumanthappa R, Mustak MS, Devaraju K, Baliga MS, Raghu SV	Chemotherapy-induced cognitive impairment (CICI): Cisplatin's effects on neurotransmitter regulation and oxidative stress in <i>Drosophila melanogaster</i>	Neurotoxicology	112	103365	2026
6	MedHackathon Asia Community	Unlocking the potential of Asian genomic data: a collaborative framework for precision medicine innovation	GigaScience	15	giag052	2026
7	VR Prabhu, AK Balakrishnan, R Kamalakkannan, K Bhavana, M S Mustak, M Nagarajan	Differential miRNA expression patterns in the ovary and hypothalamus of laying and broody ducks	Gene Reports	44	102536	2026
8	Sequeira JJ, Krishna MS, van Driem G, Mustak MS, Das R	Novel 4400-year-old ancestral component in a tribe speaking a Dravidian language	European Journal of Human Genetics	-	-	2025
9	Sequeira JJ, Shastri S, Shrivastava P, Yadav R, Yadav B, Sharma S, van	Exploring the genetic footprints of the gotra system in the Koṅkaṇī	Molecular Genetics and Genomics	300(1)	76	2025

	Driem G, Mustak MS	Sārasvata Brahmins				
10	Mubarik N, Ganei MA, Dixit S, Kumawat RK, Sequeira JJ, Ahangar NA, Kanth SA, Dar IA, Mushtaq I, Mohsin M, Mustak MS, Chaubey G, Hamid S, Shrivastava P	Exploring the genetic implications of demographic dynamics in Jammu and Kashmir using autosomal STRs	International Journal of Legal Medicine	139(2)	563-570	2025
11	Sequeira JJ, Panda M, Dixit S, Kumawat R, Mustak MS, Sharma AN, Chaubey G, Shrivastava P	Forensic Characterization, Genomic Variability and Ancestry Analysis of Six Populations from Odisha Using mtDNA SNPs and Autosomal STRs	Biochemical Genetics	63(4)	3497- 3516	2025
12	S Suvarna, KC Sunil, A Chakraborty, MS Mustak, K Prashantha Kumar, Y Narayana	The 2-deoxy-d-glucose capped gold nanoparticles: a novel material to enhance the efficacy of radiation therapy	Results in Chemistry	18	102619	2025
13	S Krishna, JJ Sequeira, MS Mustak, R Das	Mitochondrial DNA HVRII (Poly-C) and HVRIII (Poly-CA) tandem repeat variation in the Koraga population	Egyptian Journal of Medical Human Genetics	26	106	2025

14	BS Chandan, R S P Rao, M S Mustak	A report on Conidae (Gastropoda) from the Karnataka coast—distribution and shell morphometry	Journal of Threatened Taxa	17	26538-26546	2025
15	Dixit S, Shrivastava P, Jeevan Sequeira J, Mustak MS, Rana M, Kushwaha P, Shrivastava D, Kumawat RK, Pratap Singh P, Tiwarly SK, Chauhan NK, Chaubey G	The maternal genetic history of tribal populations of Chhattisgarh, India	Mitochondrion	79	101970	2024
16	Biddanda A et al.	Distinct positions of genetic and oral histories: Perspectives from India	HGG Advances	5(3)	100305	2024
17	Nagarajan M et al.	Mitochondrial genome of the Indian spot-billed duck and its phylogenetic and conservation implications	Scientific Reports	14(1)	24572	2024
18	Kumar S et al.	Genetic evidence for a single founding population of the Lakshadweep Islands	Molecular Genetics and Genomics	299(1)	8	2024
19	Kumar S et al.	Correction: Genetic evidence for a single founding	Molecular Genetics and Genomics	299(1)	63	2024

		population of the Lakshadweep Islands				
20	Kunhabdulla H et al.	Identifying Biomarkers and Therapeutic Targets by Multiomic Analysis for HNSCC: Precision Medicine and Healthcare Management	ACS Omega	9(11)	12602-12610	2024
21	Sequeira JJ, Vinuthalakshmi K, Das R, van Driem G, Mustak MS	The maternal U1 haplogroup in the Koraga tribe as a correlate of their North Dravidian linguistic affinity	Frontiers in Genetics	14	1303628	2024
22	Mustak MS, Das R, Mishra A, Nizamuddin S	Editorial: Individual and population-specific variation in cancer susceptibility, prevalence, and disease presentation	Frontiers in Genetics	14	1287610	2023
23	Kumar L, Chowdhari A, Sequeira JJ, Mustak MS, Banerjee M, Thangaraj K	Genetic Affinities and Adaptation of the South-West Coast Populations of India	Genome Biology and Evolution	15(12)	evad225	2023
24	Guttapadu R et al.	Identification of novel biomarkers for lung squamous cell carcinoma	3 Biotech	13(2)	72	2023

25	Sequeira JJ, Nizamuddin S, van Driem G, Mustak MS	TAS2R38 bitter taste perception in the Koṅkaṇī Sārasvata Brahmin population	Genes & Genomics	45(11)	1409-1422	2023
26	Tayyeh AM, Sequeira JJ, Kumar L, Babu I, van Driem G, Mustak MS	The maternal ancestry of the Kavaratti islanders and the last glacial maximum aftermath	Molecular Genetics and Genomics	298(6)	1467-1477	2023
27	Khan MI, CSP, Mustak MS, Nizamuddin S	Maternal Transmission of the PAX7 Single Nucleotide Polymorphisms among Indian Cleft Trios	Global Medical Genetics	10(1)	6-11	2023
28	Naik D, Rao RSP, Kunte K, Mustak MS	Seasonal dynamics and polyphenism of butterfly communities in the coastal plains of central Western Ghats, India	Journal of Biosciences	47	79	2022
29	Basak N, Norboo T, Mustak MS, Thangaraj K	Heterogeneity in Hematological Parameters of High and Low Altitude Tibetan Populations	Journal of Blood Medicine	12	287-298	2021
30	Kumar L, Farias K, Prakash S, Mishra A, Mustak MS, Rai N, Thangaraj K	Dissecting the genetic history of the Roman Catholic populations of West Coast India	Human Genetics	140(10)	1487-1498	2021

31	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	Scientific Reports	9(1)	6968	2019
32	Chatterjee J, Langhnoja J, Pillai PP, Mustak MS	Neuroprotective effect of quercetin against radiation-induced endoplasmic reticulum stress in neurons	Journal of Biochemical and Molecular Toxicology	33(2)	e22242	2019
33	Chatterjee J, Nair 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	Metabolic Brain Disease	33(3)	855-868	2018
34	Asif M, Bhat S, Nizamuddin S, Mustak MS	TG haplotype in the LRP8 is associated with myocardial infarction in south Indian population	Gene	642	225-229	2018
35	Nakatsuka N et al.	The promise of discovering population-specific disease-associated genes in South Asia	Nature Genetics	49(9)	1403-1407	2017
36	Shah AM et al.	Indian Siddis: African descendants	American Journal of	89(1)	154-161	2011

		with Indian admixture	Human Genetics			
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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, Shama Sunder, 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

Presented poster during **Indo-US Workshop on human Diversity and health disparities** held at CSIR-CCMB, Hyderabad, India, 16-18 January 2020.

- **MUSTAK M.S** (2019), Genetic Diversity, Population Structure and Ancestral Origin of Lakshadweep Islanders, National Seminar on Recent advances in Molecular Biology, Kannur University, Nileswarem, 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 - 30 January, 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, Mansangangothri, 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.

COMMISSIONS OF TRUST

- Referee of scientific journal Metabolic Brain Disease -Springer publication
- BOS, BOE member of Mangalore University and Kuvempu University
- External reviewer for the PhD thesis of Mysore University , Pondichery University and Kuvempu University

Reviewer

- Plose One
- Journal of genetics
- Metabolic brain disease
- Egyptian journal of medical human genetics
- International Journal of genetics
- Journal of Biochemical and Molecular Toxicology