

PROF. CHANDRAKALA SHENOY K



PROF. CHANDRAKALA SHENOY K obtained M.Sc. Degree in Marine Biology in 1983 from Karnatak University, Dharwad. She obtained her Ph.D. Degree in Biosciences in 1991 from Mangalore University, under the guidance of Dr. Vasumathi Madhavan, the former Reader in Biosciences, Mangalore University. She served as temporary Lecturer in Dept. of Biosciences for 3 years (1991-1993). She joined Mangalore University as a permanent teaching faculty in 1994, served as Reader in 1999, became Associate Professor in 2007 and is presently working as Professor since 2010 in the Dept. of Biosciences. She is recognised as a Research Guide for Ph.D. studies in the field of Biosciences since 2000 and has successfully guided one M. Phil. and two Ph. D. candidates and four Ph. D candidates are at present working under her guidance. Physiology, Biochemistry, Toxicology, Developmental Biology and phytomedicine are the areas of her research and teaching interest. Conducted extensive research on biomedical problems such as Diabetes mellitus, Alcoholism, Myocardial infarction, liver cirrhosis and Metal toxicity and published 25 research articles in National and International peer reviewed/indexed journals with citations. She has published a research book entitled “Studies on the effects of Selenium on reproductive organs in male albino rats”. She has completed a U.G.C. Minor Research Project entitled “Management of Diabetes mellitus using Herbs/Drugs of Plant Origin”.

She has presented 32 research articles at National Conferences (18), International Conferences (03), and National Seminars (11). She improved professional competence by attending 26 workshops, 5 Refresher courses, 2 orientation programmes and 8 CME programmes. She is a teacher member of Indian Academy of Sciences, Bangalore. She is serving as a Mentor/Resource person for Summer/Winter Camps and other INSPIRE initiatives. She is a Life member of Indian Association of Biomedical Scientists, Indian Society of Developmental Biologists, Indian Society of Toxicology and Indian Society of Comparative endocrinology and reproductive physiology. She is a member of editorial committee of International Journal of Health and Rehabilitation Sciences.

PUBLICATION OF RESEARCH PAPERS AND BOOKS

Selected Peer-reviewed Publications:

1. Reema O. L. and Chandrakala Shenoy K (2014). Myocardial potency of Bio-tea against Isoproterenol induced myocardial damage in rats. J Food Sci Technol DOI 1007/s13197-014-1492-6 Published online: 02 August 2014.
2. Ashwin T. and Chandrakala Shenoy K (2014). Morphometric and Length-weight Relationships of the Green Mussel, *Perna viridis* (Linnaeus) from a Subtidal Habitat of Karwar Coast, Karnataka, India. *International Journal of Recent Scientific Research* Vol. 5, Issue, 1, pp.295-299, January, 2014 ISSN: 0976-3031 Available Online at <http://www.recentscientific.com>

3. Ashwin T. and Chandrakala Shenoy K (2013). . Allometry of the Green Mussel, *Perna viridis* (Linneaus) from the Intertidal Rocky Habitat of Mukka, Karnataka, *Indian Journal of Theoretical and Experimental Biology* (ISSN: 0972-9720), 9 (3 and 4): 105-112. Elias Academic Publishers www.jteb.webs.com.
4. Chandrakala Shenoy, K. (2011). Alterations in reproductive hormone levels of selenium exposed male rats. *National Journal of Jyoti Research Academy*, Vol. 5(2), July-December, pp 62-64. ISSN 0975-461X.
5. Latha R. and Chandrakala Shenoy K (2011). Role of Anuloma Viloma pranayama in reducing stress in Chronic Alcoholics. *Pak. J. Physiol.* 7(2) (July-Dec) 11-16. Website: <http://www.pps.org.pk/PJP/7-2/Latha.pdf>. ISSN: 1819-270x IP-034, Indexations: EMR Index Copernicus, Index Pakistan, Pak medinet.
6. Chandrakala Shenoy, K. (2011). Alterations in haematological parameters of selenium exposed rats. *National Journal of Jyoti Research Academy*, Vol.5 (1), January-June, pp 17-19. ISSN 0975-461X.
7. Nagarathna K A and Chandrakala Shenoy K (2009). Effect of Selenium on the Physiochemical Status of Rat Testes. *Journal of the Indian society of Toxicology (JIST)*, Vol.005 (001) JAN-JUN: 19-22. ISSN: 0973-3558, e-ISSN: 0973-3566 Abstracted in CAB Abstracts and Global Health Databases.
8. Latha R. and Chandrakala Shenoy K. (2009). Does demonstration of reaction time increases the effectiveness of counseling in chronic alcoholics? *Thai journal of Physiological Sciences*, Vol.21.No.2 Oct.2008 – Mar.2009: 79 – 82. ISSN: 0857-5754
9. Latha R. and Chandrakala Shenoy K. (2008). Existing patterns of anemia in alcoholics in Karnataka, *BAPT (Bulletin of association of Physiologists of Tamil Nadu)*, 2(1) 23-25 ISSN: 0974-1968
10. Latha R. and Chandrakala Shenoy K. (2008). Relationship between hs-CRP and cardiac efficiency in chronic Alcoholics. *Indian Journal of clinical Biochemistry*, 23(3): 283–285. Article is available on Journal website <http://www.ijcb.co.in/july2008pdf/283285pdf>; <http://w.w.w.indexcopernicus.com>; <http://w.w.w.medind.nic.in>. ISSN: 0970-1915, Springer, Cited by 1
11. Latha R. and Chandrakala Shenoy K. (2008). Does Anxiety prevail in children of chronic Alcoholics? *Karnataka Pediatric Journal*, Vol. 22 (1) : 7-13 RN/68641/23/AL/TC/92
12. Latha R. and Chandrakala Shenoy K (2007). A Novel Technique using Measurements of Galvanic skin Response and Heart rate Variability to review the autonomic changes in chronic Alcoholics. *Pak. J. Physiol.* 3 (2) (July-Dec) 13-15. Website: <http://pps.org.pk/PJP/3-2/index.htm>. ISSN: 1819-270x IP-034, Indexations: EMR Index Copernicus, Index Pakistan, Pak medinet., Cited by 3
13. Latha R. and Chandrakala Shenoy K (2007). Physical fitness and muscle strength in chronic alcoholics. *Biomedicine* 27(2):57-59. ISSN: 0970-2067 (International) Indexed in

Excerpta Medica, CAB international, Chemical abstracts, and IndMed. Website: www.biomedicineonline.org.

14. Chandrakala Shenoy, K. (2000). Hypoglycemic activity of Bio-tea. *Indian Journal of Experimental Biology*, Vol.38 March, pp 278 – 279. ISSN:0019-5189, I/F 1.295. Cited by 11
15. Chandrakala Shenoy, K. (1997). Effect of Alloxan diabetes on the physio-chemical status of rat Testis. *Indian J. Comp. Anim. Physiology*, Vol.15, 23-26. ISSN: 0255-7150.
16. Chandrakala Shenoy, K. and Vasumathi Madhavan (1997). Altered sperm morphology and sperm count in Alloxan diabetic rats. *Indian J. Comp. Anim. Physiology*, Vol. No.15, P 53-55. ISSN: 0255-7150.
17. Chandrakala Shenoy, K. and Vasumathi Madhavan (1994). Maltase Activity in Dorsal prostate of Alloxan diabetic Rats. *Indian J. Comp. Anim. Physiology*, Vol. No.12 (1), 81-82 ISSN: 0255-7150.

Proceedings:

18. Chandrakala Shenoy K and Madhavan Vasumathi , Sperm Abnormality in Alloxan Diabetic Rats. *Proc. Nat. Sem. Rep. Biol.*, 1988.
19. Chandrakala Shenoy K. Serum Analysis of Selenium exposed Rat. *Proc. Symp. on Bioresources in the development of Medicine.*, 2007.

PUBLICATION OF RESEARCH BOOKS: No. 1

01. Chandrakala Shenoy K and Nagarathna K. A. (2012) Studies on the effects of Selenium on reproductive organs in male albino rats. LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany, pp 1- 174; ISBN: 978-3-659-11616-2.

Paper presentation at seminars/symposium/conferences:

1. Chandrakala Shenoy K and Madhavan Vasumathi. Sperm Abnormality in Alloxan Diabetic Rats. National Seminar on Reproductive Biology held from 11th to 13th August, **1988** at the University of Mysore.
2. Chandrakala Shenoy K and Vasumathi Madhavan. Maltase activity in the dorsal prostate of alloxan diabetic Rat. IX All India Symposium on Reproductive Biology and Comparative Endocrinology held on Feb. 20-22, 1991 at the School of Life Sciences, Bharathidasan University.
3. Chandrakala Shenoy K and Vasumathi Madhavan. Biochemical changes in the testis of Alloxan diabetic Rat. X All India Symposium on Reproductive Biology and Comparative Endocrinology held on January 12-13th, 1992 at the Avinashilingam Deemed University.
4. Chandrakala Shenoy K and Vasumathi Madhavan. Histological Changes in the testis of Alloxan diabetic Rat. XI All India Symposium on Reproductive Biology and

Comparative Endocrinology held on 29-30th January, 1993 at Sri Venkateshwara University.

5. Chandrakala Shenoy K. Hypoglycemic action of Bio-tea. National Symposium on Reproduction and Comparative Endocrinology held on 1st and 2nd September, 1999 at the Department of Zoology, Karnatak University, Dharwad.
6. Chandrakala Shenoy K and B. N. Neelakantan. Differential growth rate study of *P. indicus* with reference to locally available feeds. National symposium on Problems & Prospects of Environment in the New Millennium held on 14th – 16th December 2000 at the Department of Biosciences, Mangalore University, Mangalagangothri.
7. Chandrakala Shenoy K and Nagarathna K A. Alterations in reproductive hormone levels of Selenium exposed male albino rat. National symposium on Comparative endocrinology and reproductive physiology: current advances held on 17 -19 December 2009 at Dept. of Zoology, The Institute of Science, Mumbai.
8. Chandrakala Shenoy K and Nagarathna K A. Histological and biochemical changes in seminal vesicle of selenium exposed rat. National symposium on Comparative endocrinology and reproductive physiology: current advances held on 17 -19 December 2009 at Dept. of Zoology, The Institute of Science, Mumbai.
9. Chandrakala Shenoy K and Flora Olinda Dias. Effect of Bio-tea on body weight and insulin level in diabetic rat. National symposium on Comparative endocrinology and reproductive physiology: current advances held on 17 -19 December 2009 at Dept. of Zoology, The Institute of Science, Mumbai.
10. Chandrakala Shenoy K and Nagarathna K A. Alterations in sperm indices and fertility rate of selenium exposed male rats. National seminar on “Current advances in Zoology” held on 17 -19 December 2012 at Dept. of Zoology, St. Aloysius College, Mangalore.
11. Ashwin Thejasvi and Chandrakala Shenoy K. Allometry of the Green Mussel, *Perna viridis* (Linnaeus) from the Intertidal Habitat off Mukka Beach, Karnataka. Participated and presented a paper at National Seminar on “Coastal Environments and their Management” held on 22 & 23 January, 2013 by Department of Marine Geology at Mangalore University.
12. Chandrakala Shenoy K. Growth & Development of the genital tract and serum levels of testosterone, FSH & LH in alloxan diabetic prepurbertal male rats. International Conference on Fertility Regulation held from November 5-8, 1992 at Bombay.
13. Chandrakala Shenoy K and Latha R. A novel method to estimate stress in chronic alcoholics using galvanic skin response. 22nd MSPP (Malaysian Society of Pharmacology & Physiology) Scientific Meeting held on 5th- 6th April 2008 at the University of Malaya, Kuala Lumpur, Malaysia

14. Chandrakala Shenoy K. Effect of Bio-tea on the histopathology of heart in the myocardial infarcted rat. 33rd Annual Conference of Indian Association of Biomedical Scientists (IABMS) International conference on “Recent Trends and Advances in Biomedical Research-An Integrated Approach” held on November 1-3, 2012 at Nitte University, Mangalore, Karnataka.
15. Chandrakala Shenoy K. Toxic evaluation of Bio-tea. 19th Annual Conference of Indian Association of Biomedical Scientists (IABMS) held in October, 1998 at the Department of Physiology, K.M.C., Mangalore.
16. Chandrakala Shenoy K. Effect of Selenium on reproductive organs in male albino rats. 20th Annual Conference of Indian Society for Comparative Animal Physiology & Symposium on “Physiological Approaches to conserve Biodiversity & to tackle Environmental Health Hazards” held on 26 to 28 February 2003 at Dept. of Zoology, Sri Venkateshwara University, Tirupathi,
17. Chandrakala Shenoy K. Histological Changes in Testis, Seminal vesicles and Prostate gland of Selenium Treated Rat. XXV Annual conference of the Indian Association of Biomedical Scientists held from 7th to 10th October 2004 at Triple Helix Auditorium, CLRI & Dr. ALM PG IBMS, Chennai.
18. Chandrakala Shenoy K. Evidence for Free Radical Scavenging Activity of Bio-tea in Rats. 22nd conference of Indian Society for Comparative Animal Physiology on “Comparative Animal Physiology and Stress Physiology” held on November 14 -16, 2005 at Dept. of Zoology, Osmania University, Hyderabad.
19. Chandrakala Shenoy K. Physical Fitness and muscle strength of Alcoholics. 51st Annual conference of the Association of Physiologists and Pharmacologists of India held between 12 and 15 December 2005 at Jawaharlal Institute of Postgraduate Medical and Research (JIPMER), Pondicherry, India.
20. Chandrakala Shenoy K. Effect of Bio-tea on altered Biochemical States in Diabetic Mice. XXVII Annual Conference of IABMS held on 26 -27th November 2006 at Rajiv Gandhi Centre for Biotechnology, Kerala.
21. **Chandrakala Shenoy K** and Latha R. Heart Rate Variability in Chronic Alcoholics. at XXVII Annual Conference of IABMS held on 26 -27th November 2006 at Rajiv Gandhi Centre for Biotechnology at Kerala.
22. Chandrakala Shenoy K. Alterations in Haematological Parameters of Selenium exposed Rat. 28th Annual Conference of IABMS and Symposium on “Bioresources in the development of Medicine” held on 20-22nd September 2007 at Bharathidasan University at Tiruchirapalli.

23. Chandrakala Shenoy K. Alterations in Sperm count, Sperm Morphology & Sperm Motility of Selenium exposed Rats. National Women Science Congress held on 5th & 6th December 2008 at Karnataka State Women University, Bijapur.
24. Chandrakala Shenoy K. Effect of Selenium on Physicochemical Status of Rat Testis. 5th National Conference of Association of Physiologists & Pharmacologists of India held on 2^{7th} – 3^{0th} December 2008 at Kasturba Medical College, Mangalore.
25. Chandrakala Shenoy K and Latha R. Effect of Pranayama on Galvanic Skin Response in Chronic Alcoholics. National Conference on Yoga Therapy-2013 held on 18-19 January 2013 by Department of Ayush, Govt. of Karnataka & Department of Human Consciousness & Yogic Sciences at Mangalore University.
26. Reema Orison Lobo and Chandrakala Shenoy K. Hypolipidemic Activity of Bio-Tea in Isoproterenol induced Myocardial Infarcted Rats. National Conference on Herbal Medicine held on 9th and 10th October, 2013 at Frontier Mediville (A Unit of Frontier Lifeline Hospital & Dr. K. M. Cherian Heart Foundation), Gummidipoondi, Tamil Nadu.
27. Flora Olinda Dias Chandrakala Shenoy K. Beneficial Effects of Kombucha (Bio-Tea) in Streptozotocin Induced Diabetic Rats. National Conference on Herbal Medicine held on 9th and 10th October, 2013 at Frontier Mediville (A Unit of Frontier Lifeline Hospital & Dr. K. M. Cherian Heart Foundation), Gummidipoondi, Tamil Nadu.
28. Reema Orison Lobo and Chandrakala Shenoy K. Cardioprotective Effect of Bio-Tea on Isoproterenol induced Myocardial Infarcted Rats. 59th Annual National Conference of 'Association of Physiologists and Pharmacologists of India' held on 28th to 30th November, 2013 at National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, Karnataka.
29. Flora Olinda Dias and Chandrakala Shenoy K. Antidiabetic Effect of Kombucha (Bio-tea) in Streptozotocin Induced Diabetic Rats. 59th Annual National Conference of 'Association of Physiologists and Pharmacologists of India' held on 28th to 30th November, 2013 at National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore, Karnataka.
30. Chandrakala Shenoy K. Effect of Bio-Tea on histological alterations in Isoproterenol induced Myocardial Infarcted Rats. 4th National Conference of Society of Biological Scientists of India held from 18th-20th November, 2014 at Yenepoya University Campus, Mangalore.
31. Reema Orison Lobo and Chandrakala Shenoy K. Membrane stabilizing efficiency of Kombucha in isoprtorenol-induced myocardial infarction in rats, National Seminar on Life and Life Processes sustainable developments, held on 19th – 21st Feb 2015 at Dept. of Zoology, Goa University.

32. Pushpalatha and Chandrakala Shenoy K. Phytochemical analysis and *in vivo* anti oxidant activities of methanolic extract of *Vateria indica* resin. National Conference on recent advances in Animal Sciences held during 13-15 February, 2015 at Mangalore University organized by Department of Applied Zoology, Mangalore University, Mangalore.

WORKSHOPS ATTENDED

1. Participated in the 3 day workshop on "Low Cost Teaching Aid" held during 23rd to 25th November, 1998 at the Department of Chemistry, Mangalore University, Mangalore.
2. Participated in the 2 day workshop on "The Application of Science and Technology for Sustainable Development" sponsored by UNESCO held during 27-28th December, 1999 at Mangalore University, Mangalore.
3. Participated in the 12 day workshop on "Techniques in Neuroendocrine Research" held during 24th April – 5th May, 2000 at Dept. of Neuroendocrinology, Institute for Research in Reproduction (ICMR) Parel, Mumbai.
4. Attended a short term Training Programme on "Modern methods of Analysis of Pesticide residues" held during 11.06.2001 to 15.06.2001; conducted by Food Protectants and Infestation Control Department and Department of Human Resource Development at CFTRI, Mysore.
5. Attended a one day workshop on "Initiation of Projects under Student Projects Programme (KSCST)-Science" on 20.05.2002 held at seminar Hall, Center for Ecological Science, Indian Institute of Science, Bangalore.
6. Attended the National training workshop on "Bioinformatics" conducted by Bioinformatics Centre, Dept. of Biotechnology, Govt. of India, University of Agricultural Sciences, College of Fishers, Mangalore during March 19-21, 2003.
7. Attended a workshop on "PCR Technique" conducted by Dr. K. Satyamoorthy, Life Science Centre, K.M.C Manipal held at Dept. of Biochemistry and General Medicine, YMDC Campus Deralakatte, Mangalore on 8th December 2003.
8. Participated in the IABMS Silver Jubilee Preconference workshop "Prof. Dr. Sarada Subramaniam workshop" on "Evaluation of Medicinal Plants/Products for their therapeutic efficacy & Safety" held at Dr. ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Chennai on 7th to 10th Oct. 2004.
9. Attended the workshop on "Developmental Biology" organized by Indian Academy of sciences at the Indian Institute of Science, Bangalore from 14 – 20 December 2004.

10. Participated in the National workshop on “Recent Developments in Industrial Biotechnology” held on June 16th 2006 organized by TIFAC – CORE in Industrial Biotechnology at National Institute of Technology Karnataka, Surathkal.
11. Participated in the workshop on “Basic tools in Herbal Research” held on 25th November 2006 at Tropical Botanic Garden & Research Institute, Palode, Thiruvananthapuram.
12. Participated in the lecture workshop on “Frontier lectures in Biotechnology” sponsored by Indian Academy of Sciences, Bangalore organized by P.G. Dept. Of Biotechnology, St. Aloysius College, Mangalore on 30th & 31st January 2007.
13. Undergone short term training on “Laboratory Animal Techniques: Ethics & Welfare” at Animal House Facility of Dept. of Biochemistry and Nutrition in CFTRI from 11th to 14th July 2007.
14. Participated in Dr. SARADA SUBRAMANIAM memorial workshop on “In-vitro analysis of compounds for their bioactivity” conducted by Indian Association of Biomedical Scientists and National facility for Marine cyanobacteria, Bharathidasan University, Tiruchirappalli on September 20th, 2007.
15. Participated in the National workshop on “Application of Radioisotopes in Biology” held in Mangalore University, Karnataka on 7th to 10th March 2008, organised by University Science Instrumentation Centre (USIC), Mangalore University in association with Board of Radiation and Isotope Technology (BRIT)
16. Participated in the one day workshop on “Applications of PCR, Tissue culture & Bioinformatics in Research” held under the auspices of the Research Promotion cell on 26th April 2008 at A.B. Shetty Memorial Institute of Dental Sciences, Deralakatte, Mangalore.
17. Participated in the UGC sponsored workshop on “Capacity Building of Women managers in higher education (Sensitivity/Awareness/Motivation workshop) organised by Mangalore University, Mangalagangothri from 2nd to 6th February 2009.
18. Participated in the seminar cum workshop on “Cultivation of Biodiesel Plants – Energy Security, Wasteland Management & Mitigation of Climate Change” organised at Mangalore University on 31st March 2009 in association with Ministry of Environment & forests-Govt. of India and Karnataka Rajya Vijnana Parishath.
19. Participated in the National Statistics Day and Three Day Workshop on R-software for Statistical Computing held during June 29, 30 and July 1st 2010 at the Department of

Post Graduate studies and Research in Statistics, Mangalore University, Mangalagangothri.

20. Participated and served as Chairman for the 3rd session in the seminar cum workshop on “Community Participation in Biodiversity Conservation” held on 12th April 2011 at Mangalore University organized by Dept. of Biosciences in association with Karnataka Rajya Vijnana Parishath under the auspices of Ministry of Environment & forests-Govt. of India.
21. Participated in one day workshop on SPSS for Data Analysis held on 19th November 2011 organized by Dept. of Statistics of Mangalore University and SPSS South Asia PVT. LTD. at Seminar Hall, Business Management Building, Mangalagangothri.
22. Participated in the National workshop on “Health Monitoring of Laboratory Animals” held on June 16, 2012 at the Central Animal Facility, Indian Institute of Science, Bangalore conducted by Dept. of biotechnology, Ministry of Science and Technology, New Delhi.
23. Participated in the workshop on Animal welfare, Ethics and Experimentation “WAVE 2012” held on 17th August 2012 at St. Aloysius College (Autonomous), Mangalore.
24. Participated in the Dr. Sarada Subramaniam Memorial workshop on “Therapeutic Nutrition” held at Nitte University on November 1-3, 2012 conducted by IABMS.
25. Participated in the Preconference workshop on “Animal Ethics” SOBSICON 2014 held on 18th November, 2014 at Mangalore University
26. Participated in One Day User Awareness Programme on Shodhganga and Anti-Plagiarism Software iThenticate/Turnitin held on 12th February, 2015 by Mangalore University Library in association with Information and Library Network Centre (INFLIBNET) Gujarat at Mangalore University

REFRESHER COURSES ATTENDED

1. Attended a UGC sponsored Refresher Course conducted by the Department of Biosciences, Mangalore University under the theme RECENT ADVANCES IN BIOSCIENCES from 10.01.1996 to 02.02.1996.
2. Attended a UGC sponsored Refresher Course conducted by the Department of Biosciences, Mangalore University from 24.10.1996 to 16.11.1996.
3. Attended a National Academy of Sciences sponsored Refresher Course in Animal Physiology conducted by Dept. of Zoology, Karnatak University, Dharwad from 1st June to 15th June 2000.

4. Attended a UGC sponsored Refresher course in Zoology conducted by Department of Applied Zoology, Mangalore University, Mangalagangothri from 16th September to 7th October 2002 and obtained Grade 'A'.
5. Attended a UGC sponsored Refresher course in Environmental Science conducted by Dept. of Environmental Science, Kuvempu University, Shankaraghatta from 9th to 30th October 2003 and obtained Grade 'A'.

ORIENTATION PROGRAMME ATTENDED

1. Attended an orientation programme conducted by UGC Academic Staff College, University of Mysore from 04.12.2000 to 30.12.2000. Annexure No. 12(I).
2. Attended an orientation programme conducted by Mangalore University on Constitution of India, Human Rights and Environment to college teachers held on 24th June, 2003 at SDM Law College, Mangalore and on 28th June at Upendra Pai Memorial College, Udupi.

FRONTIER LECTURES / CME PROGRAMME ATTENDED

1. Attended the Frontier Lectures in Molecular Biology and Genetics held during 13th-15th September, 1996 at the Department of Biosciences, Mangalore University in collaboration with Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore.
2. Attended the Frontier Lectures in Modern Biology held during 15th-17th December, 1999 at the Department of Biosciences, Mangalore University in collaboration with Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore.
3. Attended a Scientific Session – “Thyroid update” and “Biotechnology & Bioinformatics in Medicine” of C.M.E programme organized on 8th Dec 2003 by Dept. of Biochemistry and Dept. of General Medicine at YMDC Campus, Mangalore.
4. Participated in the CME programme on “Cytokines, Receptors & their Clinical Implications” held on 22nd January 2005 conducted by Dept. of Biochemistry, K. S. Hegde Medical Academy, Deralakatte, Mangalore.
5. Attended the Continuing Medical Education (CME) programme conducted by the Dept. of Microbiology, Yenepoya Medical College, Mangalore on the topic “Principles and Practice of Antimicrobial Therapy” on 26th March 2008.
6. Participated as delegate in the CME programme on “Microbial Insights 2009” organised by the Dept. of Clinical Microbiology & Immunology, KMC- International Center, Manipal on March 1st 2009.
7. Participated as delegate in the CME programme on “Stem cell update – 2009” organised by Dept. of Anatomy & Life Science Center, Manipal held on April 11th 2009.

8. Participated as delegate in the CME programme on “Microbial Insights 2010” organized by the Dept. of Clinical Microbiology & Immunology, KMC- International Center, Manipal on July 24, 2010.

Research projects completed:

Name of the project	Year of completion.	Title of the research project
KSCST Research Project, I.I.Sc., Bangalore	1983	Differential growth rate study of <i>Penaeus indicus</i> with respect to locally available feeds.
U.G.C. Minor Research project	1999	Management of diabetes mellitus using herbs /Drugs of Plant Origin.
NPCIL Designation: Co-investigator	2008-2012	Biodiversity & bioprospecting of fauna, flora and microbes of Kaiga.