



Dr Dhanya KC

Assistant Professor,
Department of Microbiology,
St Mary's College,
Thrissur- 680020, Kerala, India.
Phone: 0487 2374312, Mob: 9947496077
Email: dhanuchandra@gmail.com

Professional objective

To contribute to the arena of education and research in a progressive manner.

Personal Particulars

Gender -Female
Date of Birth -04- 04-1984
Marital Status -Married
Nationality -Indian
Communication -Malayalam, English, Hindi
Years with firm -3 years & 3 months

Scientific Memberships

1. Life member in Environmental Mutagen Society of India

Education

Ph.D in **Biochemistry** (2013)
Mahatma Gandhi University, Kerala, India.

Master of Science in **Microbiology** (2007)
Calicut University, Kerala, India.

Bachelor of Science in **Microbiology** (2004)
Calicut University, Kerala, India.

Publications

International Journals : 10
National Journals : 10
Symposia/Conferences : 13

Areas of Interest

- Radiation Biology
- Genotoxicity and Cytogenetics
- Cancer Biology
- Nanotechnology
- Industrial microbiology
- Ayurvedic fermentation

Positions held

Employment	Year	Institution
Research Fellow	2008-2010	Amala Cancer Research Centre, Trichur, Kerala, India.
Assistant Professor	2010 – Till date	St Mary's College, Thrissur, Kerala, india.

Research experience

- Four years of research experience at **Amala Cancer Research Centre, Thrissur** on antineoplastic experiments such as cytotoxic, antioxidant, anti-inflammatory, antitumor and anticancer activities in *in vitro* as well as *in vivo* systems as a part of Ph.D work.

RESEARCH GUIDANCE

M.Sc. Dissertations

1. Laalgi Santhosh, 'Isolation, screening and selection of Poly- β -Hydroxybutyric Acid producing bacteria from soil', 2013
2. Nusrath Noorudheen, Amelioration of Captan induced toxicity in guppy (*Poecilia reticulata*) by ethanolic extracts of *Phyllanthus emblica* and *Curcuma longa*, 2013
3. Swathy N.N, 'Evaluation of *Phyllanthus emblica* as a genoprotective agent against a commercially available fungicide Captan', 2012
4. Souda Ali Ahamed.M, 'Genoprotective activity of *Curcuma longa* against a commercially available fungicide Captan', 2012
5. Afsana P.K, 'Antimicrobial, Antioxidant and Genoprotective Activities of Silver Nanoparticle', 2011

B.Sc. Dissertations

1. Studies on the prodigiosin production by *Serratia marcescens* obtained as a lab isolate, Rahana N R, Reshma K R, Rimmy Joy, Rosmi Antony and Smisha Lawrance, 2012
2. Studies on isolation and antimicrobial activity of prodigiosin from *Serratia marcescens* obtained as a lab isolate, K. S. Reshma, Liji M. J., Meenu Singh, Mivisha C. Vidhyan And Nivea Wilson,

Awards and honours

- Qualified in the Joint CSIR-UGC National Eligibility Test (NET) for lectureship with CSIR-JRF in Life Sciences held in December 2007 and (NET) for lectureship in Life Sciences held in December 2005, December 2006
- Secured 2nd Rank in MSc Microbiology from Calicut University in the year 2004-2007.
- Secured 3rd Rank in BSc Microbiology from Calicut University in the year 2001-2004.

LIST OF PUBLICATIONS

International Journals

- Radiation Protection by Nanosilver-Glycyrrhizic Acid Complex Prepared by Green Nanotechnology, **Dhanya K.Chandrasekharan** and Cherupally Krishnan Krishnan Nair, Research Journal of Nanoscience and Nanotechnology, 2013, 1(3), 1-18.
- Studies on Silver Nanoparticle-Glycyrrhizic acid Complex as a Radioprotector and an Adjuvant in Radiotherapy Under in vivo Conditions, **Dhanya K Chandrasekharan** and C.K.K Nair, Cancer Biotherapy and Radiopharmaceuticals 2012, 27(10) 642-651.

- Radiotherapeutic Potential of the Extracts of *Andrographis paniculata* and *Swertia chirayita*, Aditya Menon, R. Nagalekshmi, **Dhanya K. Chandrasekharan** and Cherupally Krishnan Krishnan Nair, Journal of Pharmacology and Toxicology. 2012 7, 20-28
- Hepatoprotective Activity of *Andrographis Paniculata* and *Swertia Chirayita*, Nagalekshmi R, Aditya Menon, **Dhanya K.Chandrasekharan**, and Cherupally Krishnan Krishnan Nair, Food and chemical toxicology, 2011, 49, 3367-73.
- Cellular radioprotecting potential of silver nanoparticle - glycyrrhizic acid complex, **Dhanya K Chandrasekharan**, Pawan K Khanna, C.K.K Nair, Mutation Research; Genetic Toxicology and Environmental Mutagenesis, 2011, 723, 51-57.
- Synthesis of nanosilver using a vitamin c derivative and studies on radiation protection, **Dhanya K.Chandrasekharan**, Pawan K Khanna, Tsutomu V. Kagiya and Cherupally Krishnan Krishnan Nair, Cancer Biotherapy and Radiopharmaceuticals, 2011, 26, 249-257.
- Effect of glycyrrhizic acid – silver nanoparticle complex on repair of whole body radiation induced cellular DNA damage and genomic instability in mice, **Dhanya K.Chandrasekharan** and Cherupally Krishnan Krishnan Nair, International Journal of low radiation, 2010, 7(6), 453 – 466.
- Studies on radiation protection by silver nanoparticle complexes of palmitoyl ascorbic acid 2-glucoside, **K.C. Dhanya**, P. K. Khanna, V. T. Kagiya and C. K. K. Nair, Proceedings of International Conference on Nanoscience and Technology in Chemistry, Health and Environment (NATCHEE)-2010, 75-79.
- Water dispersible Fe₃O₄ Nanoparticles Carrying Doxorubicin for Cancer Therapy. Onattu Damodharan Jayakumar, Rajib Ganguli, Avesh Kumar Tyagi, **Dhanya K. Chandrasekharan** and Cherupally K. Krishnan Nair, Journal of Nanoscience and Nanotechnology, 2009, 9, 6344-6348.
- Radiation Protection by 6- Palmitoyl Ascorbic Acid-2-Glucoside: Studies on DNA Damage *in vitro*, *ex vivo*, *in vivo* and Oxidative Stress *in vivo*. **Dhanya K. Chandrasekharan**, V. T. Kagiya and C.K.K. Nair, Journal of Radiation Research, 2009, 50, 203–212.
- Abstract B111: Targeted tumor therapy with doxorubicin bound to iron oxide nanoparticles and alleviation of drug toxicity, Cherupally Krishnan Nair and **Dhanya Chandrasekharan**, Cancer Prevention Research: November 2008; Volume 1, Issue 7, Supplement, Abstracts: Frontiers in Cancer Prevention Research, 2008.

National Journals

- Antibacterial and antigenotoxic activities of silver nanoparticles, **Dhanya K Chandrasekharan**, Afsana P.K and Cherupally Krishnan Krishnan Nair, 2013, Vimala International Research Journal for Pure and Applied sciences, 1, 82-89.
- Studies on the prodigiosin production by *Serratia marcescens* obtained as a lab isolate, Rahana NR, Reshma KR, Rimmy Joy, Rosmi Antony, Smisha Lawrance and **Dhanya K Chandrasekharan**, 2012, Annals of Basic and Applied Sciences, 3, 16-23
- Nanomedicine in radiation protection, Aditya Menon, C.K.K Nair, **Dhanya K.C**, 2012, Pushpagiri Medical Journal, 3, 137-140.
- Nanobiotechnology: Relevance in microbiology, **Dhanya K C** and C K K Nair, Annals of Basic and Applied Sciences, 2011, 2, 53-58.
- Complexes of gold nanoparticle with Sesamol and Glycyrrhizic acid: Studies *in vitro* on antioxidant activity and radioprotection, **K. C. Dhanya**, Shamna K, Khanna P. K and CKK Nair, Amala Research Bulletin, 2010, 30, 51-66.

- Protection from hemopoietic damage by Silver nanoparticle –Glycyrrhizic Acid in mice exposed to whole body gamma radiation, **K.C. Dhanya** and C. K. K. Nair, Journal of Advanced Biotechnology, 10, 97, 2010.
- Cellular radioprotecting potential of silver nanoparticle –phytoceutical complex **K.C. Dhanya**, P.K. Khanna and C.K.K. Nair Amala Research Bulletin, 2009, 29, 56-62.
- Cancer therapy with magnetic nanoparticles carrying doxorubicin. **KC Dhanya** and C.K.K. Nair, Amala Research Bulletin 2008, 28, 74-80.
- Application of nanoparticles in radioprotection. **K C Dhanya** and C.K.K. Nair, Amala Research Bulletin, 2007, 27, 147-150.

Publications in International Conferences

- **Dhanya KC**, CKK Nair (2013) Effect of Silver Nanoparticle - Glycyrrhizic Acid Complexes in Ameliorating Drug Induced Oxidative Stress, International Conference on Materials for Energy and Nano Convergence (ICMENC-2013), July 4 -6 , 2013
- **Dhanya. K C** and C.K.K. Nair (2012) Targeted drug delivery to tumour using Fe₃O₄ nanoparticles: Preclinical studies, International Conference on Cancer Prevention, Diagnosis & Treatment, Organized by Indian Society for Radiation Biology (ISRB) & Centre for Advanced Study, Department of Zoology, University of Rajasthan, Jaipur (India) January 21-22, 2012.
- **Dhanya. K C** and C.K.K. Nair (2012) Silver nanoparticle - glycyrrhizic acid complex: prospects as an adjuvant in radiotherapy, International Conference on Emerging Frontiers & Challenges in Radiation Biology, organized by Government Dungar College, Bikaner, Rajasthan (India) and Indian Society for Radiator Biology, January 24-25, 2012.
- **Dhanya. K C** and C.K.K. Nair (2010) Protection from hemopoetic damage by silver nanoparticle-glycyrrhizic acid complex in mice exposed to whole body gamma-radiation. International Conference on Radiator Biology – Nanotechnology, Imaging and Stem cell Research in Radiation Oncology (ICRB-NISRRO) November 15-17.
- **K.C.Dhanya**, O.D.Jayakumar, R. Ganguli, A.K.Tyagi and C.K.K.Nair (2010) Targeted drug delivery to tumour using magnetic nanoparticles: Preclinical studies with Fe₃O₄ – doxorubicin nanoparticles 29th Annual Convention of Indian Association of Cancer Research (IACR), February 20-23.
- **K.C. Dhanya**, P. K. Khanna, V. T. Kagiya and C. K. K. Nair (2010) Studies on radiation protection by silver nanoparticle complexes of palmitoyl ascorbic acid 2-glucoside. International Conference on Nanoscience and Technology in Chemistry, Health and Environment (NATCHEE), January 7-9.
- **Dhanya K. C**, P. K Khanna, Tsutomu V. Kagiya and C. K. K. Nair (2008) Protection against radiation induced cellular damage by 6-palmitoyl ascorbic acid 2- glucoside and its silver nanoparticle complex. International Conference on Radiation Biology & Translational Research in Radiation Oncology (ICRB-NISRRO) November 10-12.

Publications in National Conferences

- Dhanya K C and Nusrath Noorudheen, Amelioration of Captan Induced Toxicity in Guppy (*Poecilia Reticulata*) by Ethanolic Extracts of *Phyllanthus Emblica* and *Curcuma Longa*, 26th Kerala Science Congress, Pookode, Wayanad, January 2014.
- **Dhanya K Chandrasekharan**, Swathy N N, Souda Ali Ahamed M (2013) Genoprotective Activity of *Curcuma longa* And *Phyllanthus emblica* Against a Commercially Available Fungicide Captan, XXV Kerala Science Congress, Thiruvanthapuram, 29th January to 1st February.
- **Dhanya. K Chandrasekharan** and Cherupally Krishnan Krishnan Nair (2013) Effect of Silver Nanoparticle - Phytoceutical Complex on Gamma Radiation Induced Cellular DNA Damage and Repair, *In Vivo*, 38th Annual Conference of Environmental Mutagen Society of India (EMSI) and National Conference on “Current Perspectives on Environmental Mutagenesis and Human Health”, Bhabha Atomic Research

- Nagalekshmi R, Aditya Menon, **Dhanya. K C** and C.K.K. Nair (2011) comparative hepatoprotective activity and activity guided isolation of *Andrographis paniculata* and *Swertia chirayita*, National seminar on emerging trends in biopharmaceuticals, St. Marys College, Thrissur, August 26-27.
- **Dhanya. K.C** and C.K.K. Nair (2011) Preparation of and radioprotection by silver nanoparticle-glycyrrhizic acid complex, National seminar on Nanobiotechnology St. Mary's College, Thrissur, August 4-5.
- **Dhanya. K C** and C.K.K. Nair (2011) Radiation protection by silver nanoparticle-glycyrrhizic acid complex. Indian Association for Cancer Research Satellite Meeting - on Inhibition of Tumour Progression, Amala Cancer Research Centre, Thrissur, February 11-12.
- **Dhanya K C** and I D Konikkara (2006) Microbial Succession profiles in *Dasamoolarishtam* and *Jeerakarishtam* fermentation. Biovision 2006 International Symposium on Bioengineering for Healthcare under Sahrdaya College of Engineering.

SEMINARS AND WORKSHOPS ATTENDED

- National workshop on Digital Age Pedagogy. Perspectives and Prospects organized by Department of Computer Science in association with IQAC, St. Mary's College, Thrissur on 9th and 10th of January 2014.
- National workshop on Equipping New Era Practitioners – Teaching Learning and Evaluation organized by IQAC, St Teresa's College, Ernakulam on 20- 21 June 2013
- 'National Seminar on Bioinformatics', Organized by the Dept. of Zoology, Mercy college, Palakkad in Association with Kerala Agricultural University, 26 September 2013.
- 'National seminar on Biomarkers', Organized by the ACBI Kerala Chapter in Association with MES Medical College, Perinthalmanna, MES Medical College, Perinthalmanna, Malappuram, 8 - 9 June 2013.
- Quality Enhancement In Higher Education through student support and progression organized by IQAC, St.Mary's College, Thrissur, Kerala on 2nd and 3rd of March 2012.
- CME on 'Current Concepts in Obesity' at Jubilee Mission Medical College, Thrissur, November 18, 2012
- Certificate Programme in CODEX General Principles of Food Hygiene and application of HACCP based food safety system.
- 'Intellectual property rights and patents' at Pushpagiri Institute of Medical Sciences and Research Centre, Tiruvalla, December 17, 2011
- NAAC sponsored seminar on 'Quality sustenance in higher education: challenges and prospects of academic and research transactions' at Christ college, Irinjalakkuda, December 8-9, 2011
- International Ayurveda seminar on 'Osteoporosis' at Amala Ayurvedic Hospital and Research Centre, August 20, 2011
- International Ayurveda seminar on 'Motility Disorder of Alimentary Canal' at Amala Ayurvedic Hospital and Research Centre, August 22, 2009.
- National workshop on 'Genomics and Proteomics', held in Dept. of Biochemistry, University of Kerala, March 14 -15, 2008.