Profile

Name : **Dr. S. Murugesh, M. Sc., Ph.D.**

Designation : Professor and Head

Department : Botany

Official address : **Prof. Dr. S. Murugesh**

Professor & Head Department of Botany Periyar University Periyar Palkalai Nagar

Salem – 636 011 Tamilnadu, India +91 7373009999 +91 7373009998

murugeshss@rediffmail.com

Area of Specialization : Botany, Environmental Science, Environmental

Biotechnology, Herbal Medicine, Industrial

Biotechnology, etc.

PUBLICATIONS

Murugesh, S *et al.*, (2011) Molecular Chareterization of Isoloated Bacteria and Application of RSM for Decolorization of Acid Black 1. Journal of Pure and Applied Microbiology. Vol.5(1) pp: 77-85..

Murugesh, S *et al.*, (2010) Hepatoprotective Effects of Adenema hyssopifolium G.Don (Gentianaceae) in carban tetrachloride-Induced Hepatotoxocity in Rats.Tropical Journal of Pharmaceutical Research. Vol.9 no.2 April.

Murugesh, S *et al.*, (2009) Optimization of Various Culture Media for tannase Production in submerged fermentation by *Aspergillus flavus*. Advances in biological research Vol. 3(1-2) pp. 34-39.

Murugesh, S *et al.*, (2009) Stimulation of Monascus Pigments by Intervention of different nitrogen sources. Global J. of Biotechnology and Biochemistry Vol. 4 (1) pp: 25-28.

Murugesh. S *et al.*, (2009) Effects of fungal Co-Culture for the synthesis of Tannase and Gallic acid from Grape wastes under solid state Fermentation J. of Biotechnology and Biochemistry Vol. 4 (1) pp : 29-36.

Murugesh, S *et al.*, (2009) Accelerated bioconversion of Agricultural By-products by supplementation of Tannic acid in Tannase production by *Asspergillus oryzae* J. of Biotechnology and Biochemistry Vol. 4 (1) pp: 19-24.

Murugesh, S *et al.*, (2009) Effect of azo reductase on the degradation of Carcinogenic azo dyes J. Advanced Biotech Vol. 8 (8).

Murugesh, S et al., (2009) Pharmacognostic profile and in- vitro anticancer activity of Adenema hyssopifolium G. Don. J. of pharmacy and bioresources. Vol.6 (1).

Murugesh, S *et al.*, (2009) Anti inflammatory activity of alcohol extract of *Adenema hyssopifolium* G. don in acute and chronic experimental models in albino rats. J. of Applied Biosciences. Vol.. 19. Pp;1049-1053.

Murugesh, S *et al.*, (2009) Evaluation of antipyretic activity of ethyl acetate extract of entire plant of *adenema hyssopifolium* G. Don in a rat model. Asian Journal of tropical medicine. pp 523-526.

Paranthaman, R. Vidyalakshmi, R. Murugesh, S. and Singaravadivel, K. (2008). Optimisation of Fermentation Conditions for Production of Tannase Enzyme by *Aspergillus oryzae* Using Sugarcare Baggasse and Rice Straw, Global J. of Biotech. & Biochem. 3(2) 105-110

Murugesh, S *et al.*, (2007) Prevalence of ESBL producing strains in tuberculosis patients. *Research J. Microbiology*. Vol. 2(5), pp: 491 – 495.

Murugesh, S *et al.*, (2006), Determination of the presence of biosurfuctant produced by the bacteria present in the soil samples. *Research J. Microbiology*. Vol. 1 (4) pp: 339 – 345.

Murugesh, S *et al.*, (2006) Disulfide bridge and antimicrobial activity in proceedings of the forty second annual convention of chemist Feb 9-13 c11,12

Murugesh, S et al., (2006) Gymnemic acid production in suspension cell cultures of *Gymnema sylvestre*. J. applied sciences. Vol. 6(10), pp: 2263 – 2268.

Murugesh, S *et al.*, (2005) Book on Environmental Crisis and Security in the New Millennium. Anmol Publications pvt. Ltd.

Murugesh, S *et al.*, (2005) Mannual Book on Bioprocess Engineering Lab –II.

Murugesh, S *et al.*, (2003) Biosolubilization of lignite by marine soil microbes. Indian J. Environmental Protection, Vol..23 (10) pp: 1081-1092

Murugesh, S *et al.*, (2003) Screening of *Annona squamosa* (Custard apple) seed extract for its antibacterial activity. Indian j. Appl. Microbiol. Vol. 3(1), pp: 13-15.

Murugesh, S *et al.*, (2003) Bio preservation using Bacteriocin (NISIN) produced from *lactococcus lactis* Subsp *Lactis*. Indian journal of Applied Microbiology Vol. 3 (1)pp: 23-26

Murugesh, S *et al.*, (2003) Production and partial characterization of alkaline protease from *Aspergillus* sp. Indian j. of appl. Microbiol. Vol. 3(1), pp: 17 - 22.

Murugesh, S *et al.*, (2003) studies on aerometric analysis of indoor plant tissue culture: Laboratory environment. Biochem. Cell. Arch. Vol. 3(1&2), pp: 39 - 48.

Murugesh, S *et al.*, (2002) Studies on the VAM fungi improves growth of some medicinal plants Ad. Plant Sci. Vol. 15 (1) pp : 43-46

Murugesh, S *et al.*, (2002) Studies on *invitro* regeneration and Somatic embryogenesis in Brahmi (Bcopa Monnieri) J. Ecotoxical Environ. monit. Vol. 12 (2) pp: 133-137.

Murugesh, S *et al.*, (2002) Hydro Carbon bio-degradation and oil spill bioremediation in UGC national seminar on Recent advances in Plant science and their relevance to agriculture and industry 1 6-17 March.

Murugesh, S *et al.*, (2002) VA Mycorrhizal fungi in plant diversity in UGC national seminar on Recent advances in Plant science and their relevance to agriculture and industry 1 6-17 March.

Murugesh, S *et al.*, (2002) Bioremediation technology to clean up Crude oil spills using *Pseudomonas* Species J. Eccotoxical Environ. monit. Vol. 12 (2) pp: 133-137.

Sampath Kumar, G., Murugesh, S. Rajendran, A., Madhumathi, B. and Ganesh Kumar, A. 2000. Association of VAM fungi in Sesame and its influence on growth. In Sesame and Safflower Newsletter Edt. Ferbabdez Martinez, J. Pub. Institute of Sustainable Agriculture (IAS), CSIC Apartado 4084- Cordoba, Spain.

Murugaiyan, S (1993) Post harvest changes in enzyme activities in *MUSA* (ABB group) Monthan J. Swamy Bot. Vol..10(3) pp:83-86.

Murugaiyan, S (1992) Changes Associated with Ripening of banana in Relation to Ethylene and anthocyanin content J. Swamy Bot. Vol.9 (3 & 4) pp: 147-149.

Murugaiyan, S (1992) Changes in protein content in peel and pulp of two banana varieties GEO BIOS Vol..18-21.

Murugaiyan, S (1992) Changes in polygalacturonase activity in peel and pulp of banana varieties J.Swamy Bot. Vol.9 (3 & 4) pp: 147-149.

GC-Ms profile and In Vitro Anticancer activity of chloroform extract of *Adenema hyssopifolicum* G. Don in National Seminar on New innovation in Cancer research and experimental therapeutics 5-6 January 2009.

Murugesh, S Bioremediation of crude oil spill. Book on Environmental Crisis and Security in the New Millennium. *Anmol Publications Pvt. Ltd.*

Murugesh, S Allelopathic effect of *Bambusa rundinacea* wild. Root extract on the growth of *Arachis hypogea* willd and *Zea mays* seedlings.

Murugesh, S Conservation strategies of endangered / economically important species of Kolli Hills submitted to department of science and technology.

Murugesh, S Evaluation of the effectiveness of *Adenema hyssopifolium* G. don (Gentianaceae) in carbon tetrachloride – induced hepatotoxicity in animal model.

PATENT APPLIED

- ❖ A process for isolation, extraction and purification of Mangiferin from Canscora Heteroclita (L) Gilg. 2011.
- ❖ Screening of Biocontrol agents against Phomopsis Theae, A Causal agent of Phomopsis Cannker Disease in Tea No. 1067/CHE/2008
- Standardization of isolation techniques for Cephaleuros Parasiticus
 Karst, A Pathogenic Alga in Tea -No.1066/CHE/2008
- ❖ Antifungal activity of neem seed kernel powdered oil without Azadirachtin No.1026/CHE/2007.
- Acclimatization of Marine bacteria exhibiting enhanced biodegradation potential of Crude oil -No.1025/CHE/2007.
- Bioremediation of Crude oil and oily sludge contaminated soil using a bacterial consortium immobilized on to a steam sterilized bagasse. -No.1027/CHE/2007.

NATIONAL PRESENTATION & PARTICIPATION

Murugesh, S (2005) participated in the Workshop on Microbial Techniques Organized by Microbiology division, SASTRA University.

Murugesh, S (2004) participated in the National Conference on Recent trends in Microbial Biotechnology in SASTRA University.

Murugesh, S (2002) participated in the SEMINAR ON MICROBIAL TECHNOLOGY IN BIOFERTILIZERS organized by Ponnaiyah Ramajayam College, Thanjavur.

Murugesh, S (2002) participated in the UGC NATIONAL SEMINAR ON RECENT ADVANCES IN PLANT SCIENCE AND THEIR RELEVANCE TO AGRICULTURE AND INDUSTRY organized by department of botany Annamalai university.

Murugesh, S (2002) presented paper in the national symposium on current trends in computer applications organized by Ponnaiyah Ramajayam College, Thanjavur.

Murugesh, S (2001) participated in the workshop on PLANT TISSUE CULTURE & GENE TRANSFER organized by department of biotechnology, Bharathidasan University, Tiruchirapalli.

Murugesh, S (2001) participated in the national symposium on plant biotechnology and molecular biology and 24th annual meeting of the plant tissue culture association (India) New Delhi.

Murugesh, S (2001) participated in THE SEMINAR ION ECOFRIENDLY PRODUCTS FOR CROP PRODUCTION organized by Ponnaiyah Ramajayam College, Thanjavur.

Murugesh, S (2001) participated and presented research work in the scientific session of bioinformatics and patenting awareness in the national symposium on plant biotechnology and molecular biology and 24th annual meeting of the plant tissue culture association (India) New Delhi.

Murugesh, S (2000) participated in the 2nd Biotechnology India 2000 conference in National Science Centre Pragati Maidan, New Delhi.

Murugesh, S (2000) participated in the workshop on "BIOLUMINESCENT LABELING OF DNA" organized by school of biotechnology Dr. G.R. Damodran College of Science. Civil Aerdrome Post, Avinashi Road, Coimbatore – 641 014.

Murugaiyan, S (1994) participated in the "TRAINING-CUM-DEMONSTRATION PROGRAMME ON MEDICINAL AND AROMATIC PLANTS" organized by Central institute of medicinal and aromatic plants.

ORGANISED

Murugesh, S (2008) Analgesic and antipyretic activities of ethanolic extract of *Gmelina asiatica* linn root bark extract in experimental animals in National Conference on Emerging Trends in Herbotechnology Organized by Sourashtra College.

Murugesh, S (2008) Pharmacognostial standardization, anti inflammatory and gastric motility of roots of *Hedyotis indica* lamk, Rubiaceae in National

Conference on Emerging Trends in Herbotechnology Organized By Sourashtra College.

Murugesh, S (2008) organised nandhanum college association

Murugesh, S (2002) organised SEMINAR ON PHARMACEUTICAL FORMULATION TECHNOLOGY by Ponnaiyah Ramajayam College, Thanjavur.

Murugesh, S (2002) organised national seminar on pharmacognosy conducted by dept. of Siddha Medicine Tamil University. Thanjavur.

Murugesh, S (2002) organized in National Symposium on Current Trends in Computer Application-Ponnaiyah Ramajayam College-Thanjavur.

Murugesh. S, Seminar on Transgenic Technology.

PROFESSIONAL

INNOVATIONS

Screening of Biocontrol agents against Phomopsis Theae, A Causal agent of Phomopsis Cannker Disease In Tea - No. 1067/CHE/2008

Standardization of isolation techniques for Cephaleuros Parasiticus Karst, A Pathogenic Alga in Tea -No.1066/CHE/2008

Antifungal activity of neem seed kernel powdered oil without Azadirachtin - No.1026/CHE/2007

Acclimatization of Marine bacteria exhibiting enhanced biodegradation potential of Crude oil -No.1025/CHE/2007

Bioremediation of Crude oil and oily sludge contaminated soil using a bacterial consortium immobilized on to a steam sterilized bagasse. - No.1027/CHE/2007.

NEWS PAPER ARTICLE

Murugesh,S (2009) Presented a paper on "Bioremediation of hydrocarbons in marine and soil environment. *By Express Buzz Service*. February 4.

Murugaiyan, S (1999) Ethylene degreens citrus fruit. The Hindu. March 24.

Murugaiyan, S (1994) GA protects Citrus from flies, THE HINDU, Agri page October 12.

Murugaiyan, S (1992) Dating extend shelf life of banana. The Hindu. March 4.

RADIO TALKS

(15 ins-Tamil) - AIR, Tiruchirapalli.

i. Recent trends in plant Biotechnology - 2007

ii. Thagaval Neram - 2007

iii. Iyarkai Poochi Kolligal - 2006

iv. Vembum athan payangalum - 2005

EXPERIENCE

Academic and Administration - 16 Years

Research and Development - 06 Years

(Pharma and Agro Industries)

TOTAL EXPERIENCE - 22 Years

OUALIFICATIONS

- Ph.D., (Post Harvest Technology Banana) from Annamalai University, Tamil Nadu in 1989.
- ❖ M.Sc., (*Botany*) from University of Madras in **1983**
- ❖ B.Sc., (*Botany*) from University of Madras in **1981**

RESEARCH ACTIVITIES

Ph. D. Guidance : 15 Numbers

(Full Time & Part Time) in Sastra University

Full Time:

Degree Awarded - 2011

Molecular Cloning and Characterization of the Gene Coding for Azoreductase from Pseudomonas aeruginosa Isolated from soil.

- Mr. K.Suresh Kumar

Degree Awarded - 2009

❖ Biomolecular & Chemical Screening for the Discovery of Biologically Active secondary metabolite from streptomycetes spp.

- Mr. R. Jayapradha

Degree Awarded - 2008

❖ Acclimatization of Marine Bacteria exhibiting enhanced Bio degradation potential of crude oil and oily sludge and their field evaluation.

- Mr.N. Magesh

❖ Bioremediation of crude oil & oily sludge contaminated soil:microbiological methods for feasibility assessment and field evaluation.

- Mr.V.Mohanasrinivasan

Degree Awarded - 2007

❖ Identifying the Bio-active Metabolites from the marine bacteria in the coastal waters of east coast of Tamil Nadu, India.

- Ms.S.Vijayalashmi

Gymnemic acid production in suspension cell culture of Gymnema sylvestre.

- Ms.C.Subathradevi

M.Phil Guided : 20 Numbers

(Degree awarded by Bharathidasan University)

10 Numbers Periyar University.

LIFE MEMBERS: AMI and ISTE 10 Numbers PRIST University.

Members : Academic Council, SASTRA University from 2002-2007

Question Paper Setter for

- ❖ Annamalai University
- Satyabhama University
- Bharathiyar University
- ❖ SASTRA University
- Bharathidasan University
- ❖ SRM University
- ❖ PRIST University

Expertise

Obtained 1 crore from ministry of Agri. Government of India, from 2002 – 2005 for Agri. Training Programme as (SASTRA University)

- ❖ All regular Ph.D Scholer's obtained fellowship from funding agencies
- ❖ Expertise in submitting research project to funding agency like
 - **❖** UGC
 - **❖** DBT
 - ❖ DST
 - **❖** DRDO
 - Ministry of Environment
 - Ministry of Agriculture

Wide experience and expertise

- **❖** Academic
- **❖** Administrative
- Industrial
- * Research and development