

CURRICULUM VITAE



Name : Dr. (Mrs.) R.Kumuthakalavalli

Qualification : M.Sc., M.A (G.T), BEd., M.Phil., Ph.D.

Designation : Professor & Head

Age & Date of Birth : 55; 03-06-1953

Address (Office) : Department of Biology,
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Gandhigram Rural Institute-Deemed University
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University, Gandhigram

ACADEMIC RECORD

S.No	Degree	Year	Institution /University	Subject/ Area of Research
1	Ph.D	1995	Gandhigram Rural University	*Oyster Mushroom technology
2	M.Phil	1989	Bharathidasan University	Botany
3	M.Sc	1974	Madurai Kamaraj University	Botany
4	M.A	1986	Madurai Kamaraj University	Gandhian Thought
5	B.Ed	1981	Annamalai University	Botany
6	B.Sc	1972	Madurai Kamaraj University	Botany

* Cultivation of Oyster mushrooms using plant residues and evaluation of the efficiency of spent substrate

PROFESSIONAL EXPERIENCE

❖ TEACHING

Total years of experience in GRU - 33(UG; PG; M.Phil)

❖ RESEARCH

Total years of experience - 26

Area of research for Ph.D Programme

- Bioprospecting of some species of Pleurotus
- Biopotential of Oyster mushroom
- Ethnomedicobotany of Sirmumalai hills, Tamil Nadu India.
- Botanicals for the control of gram pod borer
- Antimicrobial, Antioxidant and Antiquorum sensing activity of selected medicinal plants of South Tamil Nadu.
- Study on wild mushrooms of Sirumalai hills
- Biopotentials of wild mushroom of Kodaikanal Hills

Area of research for P.G Programme

- Organic farming – composting with fungal inoculants
- Mapping of environmental stress due to tanneries
- Biological control using Antagonistic fungi isolated from mushroom beds
- Documentation of Folklore medicines.
- Performance of plant protein source as fish feed.
- Reclamation of coir waste using fungal inoculants.
- Medicinal plants and micro propagation
- Biodiversity conservation through Sacred Groves.
- Study on Non timber forest produce (NTFP)
- Bioremediation of Tannery polluted soil.

- Alternate substrates for Oyster and milky mushroom, spawn.

Ph.D GUIDED SO FAR ----- 7

- N.S.Pradeep- Bioprospecting of some species of *Pleurotus*.
- G.Sundararajan-Evaluation of certain plant extracts for the management of polyphagous gram pod borer, *Helicoverpa armigera*(Hubner).
- R.Lawrence Xavier-Biopotentials of Oyster mushrooms (*Pleurotus spp*).
- S.Karuppusamy-Floristic studies with special reference to Ethnomedicobotany of Sirumalai hills, Tamilnadu, India.
- K.M.Rajasekaran-Ecological studies the flora of Sirumalai hills.
- V.Dakshinamurthy –Paliyans, Forest and futures: An Ethnobotanical investigation (Co-guide)
- K.Kanchana Mala- Synthesis, Utilization and Tissues Distribution of Hexameric Storage Proteins in Silkworm *Bombyx mori* (Co-guide)
- I.Usha Rani-A study on community based participatory approaches in processing on marketing on natural Rubber(Co-Guide)

In the Pipeline ---- 4

- M.S.Myl Murugan - Studies on mushrooms of Sirumalai hills
- P.Saravanan - Antimicrobial, Antioxidant and Antiquorum sensing activity of selected medicinal plants of South Tamil Nadu.

- S.Surambar Kuzhali - Bioprospecting of wild mushroom of Kodaikanal hills for mycoremediation of industrial effluent polluted soils of Dindigul District, Tamil Nadu.
- N.Manikandan- A study on bioremediation of industrial dye effluent by using microflora of Spent Mushroom substrate

➤ **M.Phil GUIDED (Distance mode) --- 2**

N.Jayalakshmi – Woody biomass for the production of Oyster mushroom a source of a source of micro propagation

R.Suresh kumar – Microbial dye decolorisation using spent mushroom substrate(SMS)

➤ **M.Sc Guided**

43 Students of Applied Biology & Botany

FUNDED PROJECTS UNDER TAKEN

Major projects ---- 4 (DBT,CAPART) (Served as principal Investigator)

- **DBT** funded on ‘Technology transfer for SC/ST youth on recycling agro residues for income generation and production of organic manure through mushroom cultivation from **1999-2003** for **3.918 lakhs**
- Promotion of Oyster milky mushroom technology for income generation among SC/ST population **2004-07** for **10.04 lakhs** funded by **DBT**
- **CAPART** funded on “Transfer of technology of mushroom cultivation to rural women”from **1991-1995** for **Rs.5.41 lakhs**
- **CAPART** funded on “Maintenance of established centre to disseminate the mushroom cultivation technology and continue to train and supply of spawn to the mushroom growers’from **1996-1999** for **1.749 lakhs**
- Served as a **Member of Investigating** team for a **3 lakh** project on “Assesment loss caused by Tanneries in and around Dindigul Sanctioned by loss of Ecology (Prevention and payment of compensation)Authority for the state of Tamil Nadu”(Constitued by Central Government,from 1999-2000)

Minor projects

- Student's projects scheme, TNSCST, on Recycling of agro residues for oyster mushroom production at 2004.

- Student project scheme, L-RAMP Mycoremediation of pesticide pollution using wild mushrooms of kodaikanal hills, 2007.

- Funded by Tamil Nadu State Council for Science and Technology, Reclamation of coir waste using fungal inoculants and evaluation of its performance as organic manure, 2000-2001.

- Funded by TNSCST, Bio-efficiency of certain plant extracts in *Helicoverpa armigera* (Hubner) management in pulses. 1998-1999.

- Funded by UGC- Waste recycling through composting and their utilization as a organic manure. From 1996-1998.

- Funded by TNSTC- Performance of organic mix prepared from biowaste, biofertilizer and bionutrients on Horticultural crop (Rose) from 1997-1998.

- Funded by TNSTC- Mapping Environmental Stress from 1996-1997.

- Funded by TNSTC- Effect of light quality on the growth of spirulina and evaluation of its efficiency as a fish feed. From 1994-1995.
- Funded by TNSTC- Study on the solid plant waste recycling through compost method and its application as an organic manure to pulse crop.

SEMINAR/ WORKSHOPS CONDUCTED:

Regional level ---- 3

Co-organizer

Regional seminar	People, plants& future	Jointly organized with centre for future studies	21-22 Feb 2003
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Programme coordinator

Workshop	Impact of mushroom training and evolving strategies to improve mushroom trade	Co-Ordinator	31 st January 2008
Workshop cum Exhibition	Medicinal plants	Jointly organized with National service scheme, GRI, Gandhigram	18 th March 2003

Master Trainer

Training Oyster, Milky mushroom technology

Programme : Mushroom Training centre

Department of Biology

Gandhigram Rural Institute

Gandhigram

Period : From 1991 till date.

Beneficiaries: SC, ST Men & Women,

Rural youth,

Marginal farmers &

Researchers

S.No	No. of programmes conducted	No. of Beneficiaries	Period
1	24(long term)	400	15 days
2	43 (short term)	500	5days

CONTRIBUTION TO CORPORATE LIFE & OTHER UNIVERSITIES

- Member of Academic council, GRU, Gandhigram
- Member of Board of studies in Biology, GRU, Gandhigram

- Member of Board of studies in Botany in **Avinashilingam University,Coimbatore, ANJA College,sivakasi Mother Teresa University,Kodaikanal.**
- Associate Editor for the **Journal of Extension & Research** ,GRU, Gandhigram
- Examiner and question paper setter for the Ph.D.,M.Phil.,M.Sc., and B.Sc., programmes of GRI, Universitites in Tamil Nadu and other State Universities in India
- Ph.D external examiner for Viva-Voce at various Institutions(Kerala University Trivandrum,Bharathidasan University,Trichy.)
- Acted as Project Referee for various funding agencies (**DBT,DST & CAPART,New Delhi**)

MEMBERSHIP IN JOURNALS

- Life member of Journal of Swamy Botanical Club
- Life member in Mushroom Society of India.
- Member in Journal of Ecology
- Member in International Journal of Ecology and Environment
- Member in International Journal of Ecology,Encironmenr and Conservation
- Member in International Journal of Environmental Biology

SEMINARS/ WORKSHOPS ATTENDED:

National level --- 22

State level --- 8

Local level --- 12

National level

- International conference on Biotechnology solutions and Environment Sustainability organised by School of Biological Sciences, VIT, Vellore, 21st to 23rd September, 2009.
- Task force meeting organized by Department of Biotechnology, New Delhi, at Baleshwar, Pune, 29th, 30th, 2001.
- R.Kumuthakalavalli, 2002. Task force meeting organized by Department of Biotechnology, New Delhi.
- R.Kumuthakalavalli and R.Lawrence Xavier, 2002. International Seminar on Mushroom 2002, TNAU, Coimbatore.
- National seminar on appropriate rural technologies for self-employment in the relation to SGSY.SIRD, Maaraimalainagar, Feb, 5-7, 2001.
- Workshop on National Biodiversity Strategy and action Plan (NBSAP) at Bharathidasan University, Trichirapalli on 19.02.2001.

- 86th Indian Science Congress at Chennai.3rd -7th January 1999.
- Aryabata 98 Swadesi Science Movement, Trivandrum. Modern Concept on ancient sciences .14th -15th February 1998.
- National Seminar on water quality surveillance & sustainable issues Department of chemistry, GRI, Gandhigram.10th -13th December 1997.
- Vth Seminar cum exhibition on student state Council Project Scheme, Tamil Nadu Science & Technology, Coimbatore, 26th July 1997.
- National Seminar on Biocontrol of Pest & diseases. ACCM Sri Poondi Pushpam College, Poondi, 14th December 1996.
- National Symposium & Association Sea weed Research its applications and utilization, American College, Madurai and CMFRI, Mandapam Madurai.27th - 29th December1995.
- Workshop on Mushroom cultivation and Post harvest technology division of Microbiology & Tropical Botanical Garden, Palode, and Trivandrum .28th June 1995.
- Third Seminar cum Exhibition on Tamil Nadu State Council student's Project, Annamalai University, Chidambaram .22nd June 1995.
- National Seminar on Microorganisms in sustainable Agriculture. Thiyagarajar College, Madurai, 2nd -3rd March 1995.
- Symposium on Sericulture Vivekananda College, Tiruvedakam , Madurai, 10th December1993.
- 80th Indian Science Congress National Institute of Oceanography.Goa 1st -6th January 1993.

- 11th National Symposium on life Science, Quaid-e-Milleh College, Madras 11, October 1992.
- Spirulina ETTA National Symposium, MCRC Madras, 2nd October 1991.
- 10th National symposium on life Sciences, Mysore University, Mysore .26th -28th September 1991.
- National Symposium on Mushrooms, Kerala Agricultural University, Trivandrum. 22nd January 1991.
- National Seminar on Environment & its Conservation. Abdul Hakeem College, Melvisharam. 29th -31st December. 1989
- National Seminar on Aquatic Environment and Organisms. Chikkiah Naicker college, Erode, 19th -21st 1989.

- **State Level**
- State level seminar on conservation of biodiversity-the present and future scenario, ANJA College, Sivakasi. 2001.

- One day orientation workshop on project formulation of CAPART at Madurai, 24th September 1999.

- National conference on biodiversity conservation and sustainable development at Erode, 26th November 1997.

- Refresher course on Plant Science theme 'Physiological response of plants to the global climatic changes 'Madurai Kamaraj University, Madurai 3rd -25th January 1996.
- X southern Regional conference on microbial inoculates. AVMM Sri Poondi Pushpam College, Poondi.10th -13th December 1996.
- Regional seminar on Biology for Rural Application, Department of Biology,GRI,Gandhigram.
- Sixth annual convention of Bioenergy, society of India. Madurai Kamaraj University, Madurai, 29th -31st January 1991.
- 10th Science Research Seminar in Tamil on indigenous Technology for Rural Development, Madurai Kamaraj University, Madurai,8th -9th October 1998.

Local level

- **Regional seminar on Development of bakery industry conducted by the Dept. of Rural Industries and Management GRI, Gandhigram**
- Ecological Empowerment of community through panchayats. Gandhigram Rural Institute, Gandhigram, 27th -28th July 1999.
- State level seminar on herbal farming at Gandhigram. Organised by CED and KVK 26th -27th May 1999.
- State level seminar on Rural Industrialisation in India:Problems and Prospects,Gandhigram Rural Instiute,Gandhigram.21st -22nd ,April 1999.

- XXII Indian social congress Section:Ecology and Environment.Gandhigram Rural Institute,Gandhigram.13th -18th March 1999.
- Home seminar on quality life,Faculty of Rural Oriented Sciences,Gandhigram.20th April 1998.
- National Seminar on Entrepreneurship promotion & development RTC& CED.GRI, Gandhigram.16th -17th April 1998.
- National Seminar on development of Rural Industries in fifty years Dept.of RIM,GRI, Gandhigram 25th -26th March 1998.
- National seminar on psycho-social characteristics problems & strategies for the welfare of aged in rural India. Department of Applied Research, GRI, Gandhigram 11th -13th March 1990.
- Seminar on indicators of Rural Development GRI, Gandhigram.9th -10th march 1995.
- Workshop on Environmental awareness raising Environmental Education Centre, CPR, Gandhigram, 7th -9th May 1990.
- 8th Science Research Seminar in Tamil on Indigenous technology for rural Development GRI, Gandhigram,27th -28th August 1998

PUBLICATIONS

In International Journals --- 21

In National Journals --- 9

In Proceedings --- 40

In Books --- 6

In Magazines ---- 2

Papers published in International journals

- **R.Kumuthakalavalli** and Surumbar Kuzhali.S.2008.Evaluation of saw dusts as alternative substrate for cultivation of Oyster mushroom (*Pleurotus citrinopileatus*).International Journal of Pure & Applied Microbiology, Vol 2(2),p.543- 546.
- **R.Kumuthakalavalli**,Surumbarkuzhali.S&S.Reka,2008. Study on amyolytic activity of Bacteria isolated from SMS. International Journal of Pure & Applied Microbiology, Vol 2 (2),p.559-561.
- Muthmanickam,**R.Kumuthakalavalli** and S.Surumbar Kuzhali. 2008. Evaluation of Antimicrobial activity of Selected Medicinal plants, Swamy Botanical club. Vol.2.p.nu.121-122
- A.Suresh Babu, **R.Kumuthakalavalli** and M.S.Myil murugan ,2006.Recycling of lignocellulosic biomass for cultivation of milky mushroom.*Journal of Extension&Research.*, Vol VIII(1&2)p.36.

- Poonkothai and **R.Kumuthakalavalli**, 2006. Growth performance and mass multiplication of *Gymnema* spp of Sirumalai Hills. *Journal of Current Science* 9(2):p.635-638.
- **R. Kumuthakalavalli**,2004. Evaluation on the conservation of antidiabetic *Gymnema* species of Sirumalai Hills.*Journal of Extension &Research* ., Vol.II.
- Pradeep N.S., Sabu, K., **R.Kumuthakalavalli** and T.K.Abraham, 2002.Genetic variation in *Pleurotus* species .*Mushroom Research* 11 (2):P.Nu65-73.
- Sundararajan and **R.Kumuthakalavalli** 2002.Biological control of *Helicoverpa armigera* using botanicals. *Journal of Extension &Research*. Vol V(i)p.5-7.
- R.S.Priya, R.Kumuthakalavalli and S.Karuppusamy,2002. Some Tradicinal folk formularies against fertility in Kerala, *J.Human Ecol.*,13(4):335-336.
- R. Lawrence Xavier and **R. Kumuthakalavalli**, 2001. Effect of Phytohormones on the yield of Gray oyster mushroom *Plerotus sajor caju*, *J.Ecobiol.*,3(4): 305-307.
- P. Rajesh kumar,R. Lawrence Xavier, and **R.Kumuthakalavalli**,2001.
Evaluation of antagonistic fungi against the groundnut root rot pathogen *Sclerotium rolfsii*, *Ecol. Env.& cons.*,7(4): 421-425.

- R.Lawrence Xavier and **R.Kumuthakalavalli**,2001 Application of Earthworm casts and Biogas spent slurry as casing material for the cultivation of milky mushroom (*calocybe indica*), *Ecol Env.& cons.*,7(2):167-170.
- S.Karuppusamy, K.M.Rajasekaran and **R.Kumuthakalavalli**, 2001. Need for biodiversity conservation of traditional medicinal plant resources of Dindigul district, *Ecol.Envnt.& Cons.*,6(3):273-278.
- R.Lawrence Xavier and **R.Kumuthakalavalli**, 2001.Effect of organic amendments on the productivity of *pleurotus sajor-caju* on paady straw and spent straw, *J.Ecol.Res &Biocon.*,2(1&2):18-21.
- G.Sundarajan and **R.Kumuthakalavalli**, 2000. Some indigenous insecticidal plants of Dindigul district, Tamil Nadu,*J.Ecobiol.*, 12(2):11-14
- G.Sundarajan and **R.Kumuthakalavalli**, 2000. Antifeedent activity of aqueous extract some indigenous insecticidal plants of Dindigul District, Tamil Nadu, *J.Ecobiol.*,12(2)56-57
- R.Lawrence Xavier and **R.Kumuthakalavalli**,2000 Mushroom cultivation a boon to rural poor(case study), *J.Human Ecol.*,11(5): 403-404.

- G.Sundarajan and **R.Kumuthakalavalli**,2000. Effect of selected indigenous plant extract against the gram pod borer, *Helicoverpa armigera*(Hubner), *J.Ecol.Res&Biocon.*,1(2):1-4.
- S.Karuppusamy, K.M.Rajasekaran and **R.Kumuthakalavalli**, 1999. Orchid of Sirumalai Hills, *J.Swamy Bot. Club*, 16: 73-74.
- S.Karuppusamy and **R.Kumuthakalavalli**,1998. Some folklore medicinal claims on rare-plants of Sirumalai Hills, Dindigul District, Tamil Nadu,India, *BMEBR Vol. XIX*, (3-4): 145-150.
- Thilagavathy Daniel and **R.Kumuthakalavalli**,1992. Use of *Eriodendron anfructosum* seed kernel as a component in the pelleted feed of *Cyprinus carpio*var, *Communis*, *J.Ecobiol.*,4(1); 15-18.
- Thilagavathy Daniel and **R.Kumuthakalavalli**, 1991. The use of spirulina, blue green algae as a substrate for fishmeal diets for *Cirrhinus mrigala* fingerlings, *Indian Zoologists*, 15(1&2(5-7)).
- **Paper published in national journals**
- G.Sundarajan and **R.Kumuthakalavalli**,2000. Effect of leaf extract of selected plants against the larvae of *H.armigera*.*J.Environ&Eco.*,18(1);10-12.

- Joy Scaria, **R.Kumuthakalavalli** and R.Lawrence Xaavier, 2000. Feed utilization and growth response of selected fishes in relation to feeds formulated with Spirulina, mushroom and water fern. *J. Environ and Eco.*, 18(1):104-108.
- **R.Kumuthakalavalli** and R.Lawrence Xaavier, 2000. Agrowaste utilization for oystermushroom production. *J. Extn&Res.*, 2(2);22-25.
- R.Kumuthakalavalli and R.Lawrence Xaavier, 1999. Contribution of mushroom center of Gandhigram University. *J. Extn& Res.*, 1999 2(I): 38-41.
- **R.Kumuthakalavalli** and S.Karuppusamy, 1999. Medicinal flora of Gandhigram complex. *J. Extn &Res.*, 1(2):47-52.
- S.Karuppusamy, K.M.Rajasekaran and **R.Kumuthakalavalli**, 1999. Orchids of Sirumalai Hills. *J. Swamy Bot. Club.*, 16:73-74.
- S.Karuppusamy and **R.Kumuthakalavalli**, 1998. Some folklore medicinal claims on rare plants of Sirumalai Hills, Dindigul District, Tamil Nadu, India. *BMEBR vol. XIX.*, (3-4):145-150.
- **R.Kumuthakalavalli** and Kaliash Paliwal, 1997. Castor stalk- An alternative substitute for Oyster mushroom production. *Invention intelligence*, 32(2):80-81.

- Thilagavathy Daniel and **R.Kumuthakalavalli**, and Utharah Kesavan,1990.
Toxicity of Tannery effluent upon the fresh water fish, Tilapia
mossambica(Peters), Indian Odontol.,3:45-51.

Published in Proceedings

- **V.Suma**,Surumbar kuzhali.S,N.Manikandan& **R.Kumuthakalavalli**, 2009.Dye decolourisation using fruit bodies of wild Mushroom.International conference on Biotechnology solutions for Environmental Sustainability,organised by School of Biological Sciences and Technology,VIT University,Vellore.Abst.114
- **V.Sowmya**,**R.Kumuthakalavalli**,Surumbarkuzhali.S,& N.Manikandan,2009.Dye effluent treatment using mycelial biomass of marofungi,*Pleurotus florida*,*Calocybe indica* **International conference on** Biotechnology solutions for Environmental Sustainability,organisd by School of Biological Sciences and Technology,VIT University,Vellore Abst.Proc.004
- **R.Kumuthakalavalli** S.Surumbar Kuzhali& A.Johnsi,2008 Mushroom cultivation Technology a Boon for Non-Farming employment. National seminar on food processing Industry in India: Growth potential and challenges. Department of Rural University and Management, Gandhigram Rural University, Gandhigram.Abst:proc.p10

- .R.Suresh kumar, Surumbar kuzhali.S & **R.Kumuthakalavalli**, 2008. Analysis of Dye decolourization using Pleurotus Sajor-Caju. National conference on Environment Science and Technology. Department of Environmental Biotechnology, Bharathidasan University, Trichirappalli, Abst.Proc.P.40.
- P.R.Praseetha, Surumbar Kuzhali.S, **R.Kumuthakalavalli** & N.Manikandan, 2009. Biosorption of Heavy metals By Macrofungi. National Conference on Environmental status and health of workers involved in textile production, Chikkanna Government Arts College, Tiruppur, Abst.proc.P.nu.45.
- **R.Kumuthakalavalli**, P.U.Mahalingam and V.Manjusha Warriar, 2003. Microbial Biosurfactants and Bio-remediation. Ecovision-2003, National seminar on Current Environmental Issue, Department of Environmental Science, Bharathiar University, Coimbatore, Abst : Proc. P.51.
- **R.Kumuthakalavalli**, P.U.Mahalingam and Suganthi, 2003. Plerotus florida, a Potent Oyster Mushroom for recycling agroresidues. Ecovision -2003, National seminar on Current Environmental issues, Department of Environmental Science, Bharathiar University, Coimbatore, Abst:Proc.P.122.

- **R.Kumuthakalavalli** and Lawrence Xavier,2002.Contribution of Mushroom Center at Gandhigram Rural University, Gandhigram, Dindigul. III Indian Mushroom Conference, TNAU, Coimbatore ,Abt:Proc.p.122.
- **R.Kumuthakalavalli**,M.S.Myilmurugan and A.Suresh Babu-2005,Milky mushroom cultivation for recycling lignocellulosic biomass. National conference on advances in solid waste management, Gandhigram Rural University, Gru.Proc.P31.
- **R.Kumuthakalavalli**,2005-oyster mushroom production, a potential bioindustry, National conference on advance in solid waste management, Gandhigram.Proc.49.
- **R.Kumuthakalavalli**, PU.Magalingam, A.SureashBabu,& S.Myilmurugan,2007, Biocontrol of Pholorid flies in milky mushroom. National biotechnology conference Alapuzha abst.Proc.AB-355 p.26.
- G.Poonkothai and **R.Kumuthakalavalli**, 2006-Growth performance and macromultiplication of antidia betic *Gymnema* spp of Sirumalai hills. Current Sceience 9(2):p 635-638.
- P.Saravanan and **R.Kumuthakalavalli**, 2003.Medicinal Plants and their role in human health. Regional Seminar on People, Plants and future,GRI.

- V.Dakshinamurthy, T.SelvinJebarajNormanand. **R.Kumuthakalavalli**, 2003. Paliyars, Sirumalai and Future. Regional Seminar on People, Plants and future, GRI, Gandhigram, Abst.Proc.PPF.38.
- V.Karthikeyan, **R.Kumuthakalavalli** and P.Selvaraj, 2003. Role of sacred groves in biodiversity conservation. Regional Seminar on People, Plants and future, GRI, Gandhigram, Abst.Proc.P.PPF.40.
- J.Selvakumar, **R.Kumuthakalavalli**, and K.Selvi, 2003. Practise of homemade remedies using medicinal plants (An analysis) Regional Seminar on People, Plants and future, GRI, Gandhigram, Abst.Proc.PPF.44
- K..M.Rajasekaran and **R.Kumuthakalavalli**, 2003. Ethnobotanical study of the paliyan Tribes. Regional Seminar on People, Plants and future, GRI, Gandhigram, Abst.Proc.PPF.44.
- Thilagavathi Daniel and **R.Kumuthakalavalli**, 2002. Mushroom Production using crop residues. Workshop on waste recycling utilization and disposal, Institution of Engineers, Madurai

- **R.Kumuthakalavalli.** Mushroom technology for Rural Development, 2001. In: Proceeding of refresher course conducted on recent trends in biological Research and Extension for the development of Rural women, Department of Biology, G.R.I, Gandhigram, P.58-65.
- **R.Kumuthakalavalli.** Mushroom Cultivation and agro based industry, 2001. Course material for refresher course conducted from 26th Nov to 20th December, Department of Rural industries and Management, G.R.I, Gandhigram.
- J.Ruth Shantha Sheela and **R.Kumuthakalavalli,** 1999. Bioefficiency of certain plant extract in Helicoverpa armigera management in pulses, In: Proceeding of VI Seminar cum Exhibition on Student Project Scheme, TamilNadu State Council for Science and Technology, Chennai.
- P.Mahalakshmi, **R.Kumuthakalavalli** and M.R.Rajan. Performance of organic mix preparation from biowaste, bionutrients on horticulture (Rose) and vegetables (Radish) crop., 1998 In: Proceeding of VI Seminar cum Exhibition on Student Project Scheme, TamilNadu State Council For Science and Technology, Chennai.
- R.Deepa and **R.Kumuthakalavalli.** Reclamation of coir waste using fungal inoculants and evaluation of its performance as an organic manure. In: VI Seminar cum Exhibition on Student Project Scheme, TamilNadu State Council for Science and Technology, Chennai. P49-50.

- K.Meeravathi and **R.Kumuthakalavalli**, 1997. Mapping on environmental stress, a case study of tanneries at Dindigul. Proc. V Seminar cum Exhibition on Student Project Scheme, TamilNadu State Council For Science and Technology, Chennai. p 109-112.
- **R.Kumuthakalavalli**, Thilagavathy Daniel and M. Sakthivadivel, 1996. An analysis on the role of microbes in improving the atmosphere, In: Proceedings of IV Seminar in Tamil, Tamil Nadu Science Congress (Ed), p 75-76.
- **R.Kumuthakalavalli** and Robert, 1995. Study on solid plant waste recycling through composting and their application as an organic manure to a pulse crop. Proc. 3rd Seminar cum Exhibition, Tamil Nadu State Council student Project Scheme, Chidambaram, pp 15-17.
- **R.Kumuthakalavalli** and Vengadalakshmi, K,1995. Effect of light quality on the growth of Spirulina and evaluation of its efficiency as a fish feed, Proc. 3rd Seminar cum Exhibition, Tamil Nadu State Council student Projects scheme, Chidambaram, pp 15-17.
- Thilagavathy Daniel, **R. Kumuthakalavalli** and S.Ravanappa, 1993. Silk production in Bombyx mori L. fed on diet supplement with processed legume, Proc. Symposium on sericulture, Vivekananda college, Trivedakam. p 9.

- **R.Kumuthakalavalli** and Thilagavathy Daniel,1993. Cultivation of oyster mushroom and income generating programme, Proc. Training programme for Indian forest service officers, Gandhigram rural institute ,Gandhigram p 76
- **R.Kumuthakalavalli** and V.Alagarsamy, 1993. A study on the response of selected nursery saplings towards bio digested slurry. Proc. 8th secession of Indian science congress, Goa, p218.
- L.Palani and **R.Kumuthakalavalli** ,1992.Evaluation of influence of biodigested slurry on the growth and yield of Phaseolus mungo, Proc. 11th national symposium on life sciences, madras, p 11
- **R.Kumuthakalavalli** and Thilagavathy Daniel,,1992.Cultivation of oyster mushroom using crop residue- A technology for women. Pro.11th national symposium on lifesciences, madras, p 11.
- Thilagavathy Daniel and **R.Kumuthakalavalli**, 1991. Evaluation of the suitability of Spirulina algae in the feed for Silver carp , Hypothalmichthy molitrix (Valenciennes) Fingerlings: In Proceeding of spirulina ETTA National Symposium, C.V.Seshadri and N.Jeejibai (Eds):p 167-170.
- **R.Kumuthakalavalli** and Thilagavathy Daniel,1991. Effect of germinated Pulses on Sporophore yield of oyster mushroom (Pleurotus sajor caju) in Indian

- mushrooms, in : proc. National symposium on mushrooms,M.C.Nair(Ed.),p 115-116.
- Thilagavathy Daniel and **R.Kumuthakalavalli** and S.Shanmugam.1991. Study of Oyster mushroom, (*Pleurotus sajor caju*) on various substrate: Indian Mushrooms, In:Proc. M.C.Nair(Ed.),p 86-88.
 - Thilagavathy Daniel and **R.Kumuthakalavalli**, 1991. Evaluation of the suitability of Spirulina algae in the feed for Silver carp finger link. In: Proc. Spirulina ETTA national symposium, C.V.Seshadri and N.Jeeji Bai(Eds) p. 167-170.
 - P.Rajeev and **R.Kumuthakalavalli**, 1990. Evaluation of biodigested slurry on growth and Yield of Radish (*Raphanus sativus*),In:Proc. VI Annul convention Bioenergy Society of India. p 4.
 - Thilagavathy Daniel and **R.Kumuthakalavalli**, 1998. Cultivation of edible oyster mushroom (*Pleurotus sajor caju*) using groundnut shell as alternate substrate, In: Proc. 10th science Research Seminar in Tamil, Madurai, Vol 1, p.9-15.
 - **R.Kumuthakalavalli** and Thilagavathy Daniel, 1988. Cultivation of edible Oyster mushroom (*Pleurotus sajor caju*) using groundnut shell as alternate

substrate In: Proc. 10th Science Research Seminar in Tamil, Anandhavalli Mahadevan(Ed),Vol.1,p9-15.

Papers published in books

- G.Sundarrajan and **R.Kumuthakalavalli**, 2003: Role of botanical in sustainable environmental production. In: Environmental Issues,(ed) M.A.Sudhir and M.Alankara Masilamani,Reliance publishing house, New Delhi, p.244-247.
- S. Karuppusamy and **R. Kumuthakalavalli**, 2002. Lesser known ethanomedicinal claim on Theriophomum fisheri Sivadasan (Aeraceae) in Sirumalai Hills of Dindigul District, Tamil Nadu. In: Serious Recent Progress in Medicinalplants Vol.1 Ethanomedicine and Pharmacognosy (ed) V.K. Singh, J.N.Govil and Gurdipsingh, SCI TECH. Pub. USA,p. 85-86.
- S.Karuppusamy and **R.Kumuthakalavalli**,2002. Medicinal orchids from the hilly tracts of Dindigul district in Tamil Nadu. In: Serious recent progress in medicinal plants, Vol 1 Ethanomedicine and Pharmacognosy.(ed) V.K. Singh, J.N. Govil and Guirdipsingh, SCI TECH.Pub.,USA,p263-267.

- **R.Kumuthakalavalli** and R.Lawrance Xavior,2000. Mushroom for health and nutrition of the aged In: Aging in rural India, prospects and problems, Indian publishers and distributors, New Delhi, p.150-153.
- R.Kumuthakalavalli and R.Lawrance Xavior, 1999. Mushroom cultivation for developing rural entrepreneurs In: Women entrepreneurship issue and strategies(ed) M.Soundarapandian. Kanishka Publishers, Distributers, New Delhi, P.143-146.

In Magazines

- A vegetarian substitute for meat.The Hindu.dt.,24.12.1994
- Rural development includes health investment.The Hindu dt.17.03.1995.

Books Published

- **R.Kumuthakalavalli** and P.Saravanan, 2006Gimpse of Herbal medicines. Harshitas publications Madurai.
- **R. Kumuthakalavalli**, March, 2002, Mushroom technology GRU, Publication, Gandhigram.

Booklet/Handbills published

- Booklet on Oyster mushroom and Milky mushroom cultivation Technology.2002
(In Tamil).
- A Manual on mushroom cultivation technology2002..
- Chippi kazhan valarppu – A booklet on Oyster mushroom cultivation technology
(in Tamil)
- Revised edition of the above, 1995.
- Hand bills prepared for popularization of mushroom technology.

Hand bills

- Oyster mushroom cultivation-Agrobased income generating environmental
technology.
- Technique in cultivation of oyster mushroom and its cost benefit analysis.
- Cultivation technology of oyster mushroom.
- Kalaan vunavu vagaigal
- Chippi kallaan chirantha vunavu murai.
- Vunavu kalaan sakupadi murai.
- Chippi kalaan vithu thayarithal.
- Chippi kalaan valarpil sua velai vaipu.
- Kalaan sapiteerkala?
- Samuthaya munnertrammum kalaan valarpum.

Talks delivered

- In radio

- In seminars organized by Govt. Depts.
- In seminars organized by departments of GRI

Other activities

- Giving guidance and counseling to students under Gurukula system.
- Collaborated with faculty of agriculture and KVK, Gandhigram and imparting the technology and training on transfer of oyster mushroom to various levels of people like forest Officers, Ranger, Gourds Agriculture Officers, Horticulture Officers, TANWA beneficiaries of Tamil Nadu and other states of India
- Participated in Farmer's day celebrations and installed a stall on mushrooms.
- Collaborated with DRDA, Dindigul and implemented mushroom technology DWCRA, TRYSEM schemes of this District.
- Collaborated with state Horticulture Department in mushroom cultivation technology transfer.
- Enabled this institute to have a mushroom complex with tissue culture unit, cropping unit and demonstration unit and taking care of sustainability.
- Acted as a resource person for the refresher courses so far conducted in the Department of Biology from 1997.
- Giving guidance to mushroom farmers in and around Dindigul District.
- Acted as Ladies Hostel Warden, Gandhigram Rural Institute, GRI during 2005-06.

INTERNATIONAL ASSIGNMENTS AND VISITS

SRILANKA- Resource person to conduct Refresher course to Teachers of Up-country, Hatton, Srilanka in Science(Botany). (20.8.2007 to 1.9.2007).

The 33 years service in Gandhigram Rural Institute (Deemed University) has enabled me to cherish the Gandhigram values, to work for the vision and mission of the University. Extension is an important component of the three dimensional of the education of this University. The knowledge and expertise gained by me on mushroom technology through my research has enabled me to create awareness on mushroom culture through demonstration in almost all the villages of Dindigul District, and also promotion of mushroom venture for employment and community nutrition through training programme from 1991 onwards. Number of SC / ST Women, marginal farmers, rural youth, students and researchers are benefited. By sougning funds from agencies like CAPART, New Delhi, DBT, NewDelhi, a separate complex for growing different stages of mushroom is established in the Department of Biology.