

CURRICULUM VITAE OF
Dr. A. DAVID RAVINDRAN



1 Present Position

Professor

2 Educational Qualifications

Institution	Address	Year of passing	Degree obtained	Area of specialization	Class obtained & rank if any	Percentage of marks
Agricultural College & Research Institute	TNAU Coimbatore	1988	Ph.D	Agricultural Microbiology	3.94/4.00	88.8%
Agricultural College & Research Institute	TNAU Coimbatore	1980	M.Sc.,	Microbiology	3.42/4.00	78.4%
American College	Madurai	1978	B.Sc.,	Botany	First Class	66.1%
American College	Madurai	1974	PUC	Science	Second Class	58.1%
Mont fort Boys High School	Yercaud	1972	Anglo Indian Exam	Science	Second Class	51.0%

3 Special Training undergone

- ✓ Undergone Advance Training in Culturing an **Isolation of Methanogens** at Fermentation Laboratory, Department of Environmental Sciences, TamilNadu Agricultural University, Coimbatore.

4 Teaching and Research Experience

Teaching Experience	Undergraduate	22 years
	Postgraduate	22 years
	Research	22 years
	Contact classes for M.Sc., Microbiology,	
	Appl. Biology; Botany, Zoology, P.G. Diploma in Bio-gas & Renewable energy,	
	Post Diploma in commercial Horticulture, M.Phil (Futurology) B.Sc., (BDA, RIM & B.Cop)	

Research work in composting, biomethanation, biofertilizers & biocontrol agents, biofuels and pollution abatement

5 New Courses / Programmes Evolved / Organized

Courses

1. M.Sc. Microbiology
2. M.Tech Energy Engineering

Programmes

1. M.Phil in Energy (Regular & Distance Mode)
2. Certificate Course in Energy Auditing

6 Laboratories / Department established

1. Established Microbiology Laboratory
2. Established Energy Engineering Laboratory
3. Involved in establishing Energy Park and Energy Centre

7 Involvement in Institute Development

- ❖ Staff In-charge - Student's Club for Adventure Programme
- ❖ Member of the Rural Energy Center, GRI.
- ❖ NSS Programme Coordinator
- ❖ Academic Council Member
- ❖ Senate Member – One term
- ❖ Chairperson to Departmental Committees for Faculty of Agriculture – Twice, Home Science, Rural Technology Centre and Rural Health & Sanitation
- ❖ Discipline committee member
- ❖ Superintendent for University Examination – GRI, Gandhigram
- ❖ Chef Examiner – External and Internal Valuation – GRI, Gandhigram.
- ❖ **Director i/c Rural Energy Centre**
- ❖ M.Sc., Microbiology Coordinator

8 Research Guidance	Twenty-two years: Recognized guide for Doctoral Programme in Biology have worked, guided and published papers in the Fields of Bio-gas, Biological Nitrogen Fixation, Food Technology, Pollution Abatement and Compost making
1. S.Ganesh	“ Studies on the influence of organic fertilizers and biofertilizers of tomato”
2. G.S. Kannan	“ Studies on the interaction of VA mycorrhizae and Collar rot of Groundnut”
3. M.S. Dhanarajan	“ Recycling of Tannery Effluent / Sludge through Anaerobic Digestion”
4. B. Karunai Selvi	“Effect of phosphate solubilizing microorganism and Rhizobium sp. on Vigna unguiculata (L.) Walp.”
5. S.J. Aruna	“ Low cost organically grown Spirulina”
6.A. M. Ramachandran	“ Interaction of A Mycorrhiza with root borne pathogens”
7. N. Vasudevan	“Recycling of biological tannery sludge by biomethanation”
Areas of Research	<ol style="list-style-type: none">1. Biological Nitrogen Fixation2. Biological Control Of pathogens3. Bio-gas Technology4. Environmental Microbiology5. Organic Farming3. Biological Indicators of Environmental Pollution

9 Research Project undertaken

S. No	Topic	Funding Agency	Amount	Year	Duration
1	Studies on the reclamation of tannery polluted soils using rhizobia as and indicator	UGC Minor Research Project	Rs. 10,000/-		2 years
2	Growth and reproduction of certain irbanebtak fishes fed with single cell protein enriched feeds	TN state Council for Science and Technology	Rs. 4, 000/-		1 year
3	Influence of tannery affected soils on rhizobium – legume symbiosis	-do-	Rs. 4.500/-		1 year
4	Control of collar rot on Ground nut using <i>Trichoderma</i> sp and VAM	-do-	Rs. 4000/-	1997 to 1998	1 year
5	Recycling of tannery sludge through Anaerobic fermentation and utilization of the biodigested sludge for drop production	TN state Council for Science and Technology	Rs. 5000/-	1999 to 2000	1 year
6	Evaluation of Institutional Biogas plants in three districts of Tamil Nadu	TEDA, Chennai	Rs. 35,000/-	2000 to 2000	1 year
7	Biomass assessment studies in nine talukas (As Co-PI)	TEDA, Chennai	Rs 5,25,000/- Rs 3,00,000/- Rs 8,25,000/-	1998 to 2002	5 years
8	Establishment of Energy (As Co-PI) Park in GRI	MNES New Delhi	Rs. 4.25,000/-	2001 to 2001	1 year
9	Fortification of composted materials by beneficial microorganism	TNSCST Tamil Nadu	Rs 4,000/-	2004-2005	1 year
10	Evaluation Study on Solar Water Heaters and Air Heaters installed in TamilNadu	MNRE & TEDA, Chennai	Rs.1,15,000/-	2008-2009	6 months

11	Evaluation of Solar Street and Home Lighting Systems installed in Remote Habitations in TamilNadu	MNRE & TEDA, Chennai	Rs. 6,45,000/-	2008-2009	6 months
12	Evaluation of Solar Lightings in Remote Habitations of Theni District	MNRE & TEDA, Chennai	Rs.85,000/-	2009	3 months

10	List of Publications
International Journal	
<ol style="list-style-type: none"> 1. Aurn A, Murrugappan, R.M., Ravindran A.D., Veeramanikandan V and Shanmuga Balaji, 2009 Utilization of various industrial wastes for production of poly-β-hydroxy butyrate (PHB) by <i>Alacligenes eutrophus</i>, African Journal of Biotechnology, 17(5), 1524-1527 2. Karunaiselvi.B., and A.David Ravindran. 2008. Impact of phosphate solubilizing microorganism and rhizobium on growth, nutrition and microbial load of cowpea (<i>vigna unguicuata</i> (L.) walp) fertilized with rock phosphate. Asian Jr. of Microbial. Biotech. Env. Sc.10 (3) 621-624. 	
International Conference	
<ol style="list-style-type: none"> 1. International Symposium on Molecular Biology of yeast in relation to Biotechnology at JNU, New Delhi., 1990 2. International conference on recent Advances in Biosciences” Organized by Institute of Biological Sciences, PGP College, Namakkal on 12th and 13th Feb 2004. 3. Third International Symposium on nitrogen fixation with non legumes held at Helslinki, Sep 2-8th 	
National Journal	
<ol style="list-style-type: none"> 1. Aruna S.J., and A.David Ravindran, 2009. Effect of organic substrate (neem cake) on the growth of <i>spirulina</i>. J.Ecobiol.24(4) 369 – 372 2. Ganesh.S., A.David Ravindran, M.Sundaramari and G.S.Kannan 2009. Effect of biological inoculants and graded levels of chemical fertilizers on flowering and yield parameters of tomato. Journal of Extension and Research 11 (1&2) 13 – 20. 3. Kannan G.S., A.David Ravindran, S.Ganesh, and M.Sundaramari 2009. Interactions of arbuscular mycorrhizae and collar rot disease of groundnut. Journal of Extension and 	

Research 11 (1&2) 30 – 36.

4. Karunaiselvi.B., and A.David Ravindran. 2008. Effect of phosphate solubilizers and rhizobium sp. on *Vigna unguiculata* **J.Ecobiol.**22(4) 377-388.
5. A.M.Ramachandran and A.David Ravindran, 2008 “The role of MHB on Mycorrhiza Infected *Arachis Hypogaea* L.” **Journal of pure and applied microbiology**, V 2 (2), pp 477-481
6. S.J.Aruna and A.David Ravindran,2008, “Cultivation of *Spirulina* sp. Using organic substrates, **Journal of pure and applied microbiology**, V 2 (2), pp 483-488
7. A.D. Ravindran, N.Vasudevan, 2007, Recycling of biological tannery sludge through biomethanation, **Pollution Research** 27 (1), 161-163
8. Vasudevan, N and A.D. Ravindran, 2007, Biotechnological process for the treatment of fleshing from tannery industries for methane generation, **Current Science**, 93 (11), 1492-1494
9. Devdendra, R, Ravindran, A.D and G.Vanithakumari, 2006, Recycling of biological tannery sludge for biogas production *J. Ecobiol.* 18, 219-224.
10. N.Vasudevan and A.D.Ravindran, 2006, Recycling of Biological Tannery Sludge and Fleshing by Biomethanation - Proteofest'06-Sovenir January 2006. at Rev.Jacob Memorial Christian College, Ambilikkai.
11. Mariappan, V, Rajan M.R., Ravindran, AD and PP Prabakaran, 2005, A Sstemic study of water quality index among the physico-Chemical characteristics of ground water in and around Thanjavur Town, **Indian J. Environmental Protection** 25 (6), 551-555.
12. Ravindran, A.D. 2005. Simple modified technique to enumerate total coliforms in drinking water. **Journal of Extension and Research** V 7, 324.

National Conference / Seminar / Symposia

1. N.Vasudevan, A.D. Ravindran, 2009. An Ecofriendly approach to the Liquefaction of Tannery Fleshing for Methane Generation COD Reduction. **National seminar on Emerging Trends in Environment and Development**, Organized by Department of Environmental Sceinces, university of Kerala, Thiruvananthapuram pp 98 – 99
2. Ajay, G., V. Mariappan, A.D. Ravindran and B. Karunai Selvi. 2005. Studies on the effect of combined application of *Pseudomonas flurorescens* and organic manures on growth and yield of bhendi (*Abelmoschus esculantus* (L. Moneh.) crop. **National Conference of Advances in Solid Management**. Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 22th – 23th February. Ab.p..
3. Karunai Selvi, B., and A.D. Ravindran 2005. Effect of FYM enriched with RP and PSMs on growth and yield of cowpea *Vigna unguilata* L. Walp Co 2. **National Conference of Advances in Solid Management**. Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 22th – 23th February. Ab.p.51
4. Karunai Selvi, B., and A.D. Ravindran 2005. Enumeration of phosphate solubilizing microbes

and available phosphate from FYM and soil enriched with rock phosphate. **National Conference of Advances in Solid Management.** Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 22th – 23th February. Ab.p.52.

5. Sreena, V., A.M.J. Kumari., and A.D. Ravindran. 2005. Composting biomaturity testing of *Lantana camera* and *Euphorbia cyathopora*. **National Conference of Advances in Solid Management.** Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 22th – 23th February. Ab.p.73.
6. Ravindran, A.D. 2004. Biomaturity of Compost (Lead Paper) **National seminar on Biodegradation and Bioremediation,** Organized by Department of Biochemistry and Biotechnology, Sourashtra College, Madurai.
7. Ramachandran, A.M., A.D. Ravindran, M.S. Alex, and N. Hariram, 2004. Response of onion plant to VAM and *Pseudomonas* sp. Inoculation. **National seminar on Biodegradation and Bioremediation,** Organized by (Ed) A.D. Ravindran and M.S. Dhana Rajan Department of Biochemistry and Biotechnology, Sourashtra College, Madurai. Ap.p. EMA 29.
8. Ravindran, A.D., M.S. Dhana Rajan, M.M. Ganesh Babu, B. Jegatha, and K. Deepa. 2004. Effect of Rhizobium and cocomposted tannery sludge with organic waste on the growth of *Vigna mungo*. **National seminar on Biodegradation and Bioremediation,** Organized by Department of Biochemistry and Biotechnology, Sourashtra College, Madurai. Ap.p.ERWA 25.
9. Ganesh, S.and A.D. Ravindran. 2005. A study on the use of bio-inoculants on growth parameters of Tomato In: **Proceedings of the National Seminar on Rural Biotechnology for sustainable Development** (Ed) Thilagavathy Daniel, Department of Biology, Gandhigram pp 9-16.
10. Karunai Selvi, B., and A.D. Ravindran. 2005. Phosphate solubilizing efficiency of microorganisms isolated from rhizosphere soil sample of *Tephrosia purpurea* (L.) Pres In: **Proceedings of the National Seminar on Rural Biotechnology for sustainable Development** (Ed) Thilagavathy Daniel, Department of Biology, Gandhigram pp 78-82.
11. Ramachandran, A.M., and A.D. Ravindran. 2005. Induction of extra-cellular polysaccharide production by UV treatment in *Rhizobium* In: **Proceedings of the National Seminar on Rural Biotechnology for sustainable Development** (Ed) Thilagavathy Daniel, Department of Biology, Gandhigram pp 107-114.
12. Mariappan, V., M.R. Rajan, and A.D. Ravindran. 2005. Effect of SPIC cytozyme on growth and biochemical metabolism of some selected legume tree sp. In: **Proceedings of the National Seminar on Rural Biotechnology for sustainable Development** (Ed) Thilagavathy Daniel, Department of Biology, Gandhigram pp 115-119.
13. Dhana Rajan, M.S., and A.D. Ravindran. 2005. Determination of composting process of tannery sludge along with organic matter by biochemical analysis In: **Proceedings of the National Seminar on Rural Biotechnology for sustainable Development** (Ed) Thilagavathy Daniel, Department of Biology, Gandhigram pp 161-168.
14. Deivendran, R., A.D. Ravindran, and G. Vanithakumari. 2004. Influence of biodigested tannery sludge on the survey of *Vigna unguiculata* (cow pea). **J.Ecobiol.** 16(5): 361-364.
15. Ravindran A.D., M.S. Dhana Rajan, M.N. Ganesh Babu, B. Jegatha and K. Deepa 2004.

Effect of *Rhizobium* sp. And cocomposted tannery sludge with organic waste on the growth of *Vigna mungo*. UGC sponsored **National seminar on Biodegradation and Bioremediation**, Organized by Department of Biochemistry and Biotechnology, Sourashtra College, Madurai on Sep 17-18th Ab.p.

16. Ravindran A.D., and B. Karunai Selvi 2004. Candied Ginger and Mango – Acceptance. **Regional seminar on “Post-harvest technologies for rural development”**, Organized by the Department of Home Sciences, Gandhigram Rural Institute (Deemed University), Gandhigram on 12th – 14th March. Ab.p.16
17. Ravindran A.D., and B. Karunai Selvi 2004. Microbial quality assurance of foods. **Regional seminar on “Post-harvest technologies for rural development”**, Organized by the Department of Home Sciences, Gandhigram Rural Institute (Deemed University), Gandhigram on 12th – 14th March. Ab.p.26.
18. Karunai Selvi, B., and A.D. Ravindran. 2004. Salt tolerance and phosphate solublizing efficiency of microorganism isolated from rhizosphere soil sample of *Tephrosia purpurea* (L) Pres. **National Symposium on “Recent trends in Bioscience”**, Organized by the Department of Biology, Sri Paramakalyani College, Alwarkurichi on 27 – 28th February. Ab.p.40.
19. Ravindran, A.D., M.S. Dhana Rajan and B. Karunai Selvi 2004. Effect of *Rhizobium* sp. And cocomposted tannery sludge on the growth of *Acacia auriculiformis*. **National Symposium on “Recent trends in Bioscience”**, Organized by the Department of Biology, Sri Paramakalyani College, Alwarkurichi on 27 – 28th February. Ab.p.40.
20. Karunai Selvi, B., and A.D. Ravindran 2004. Phosphate solublizing efficiency of microorganism isolated from rhizosphere soil sample of *Tephrosia purpurea* (L) Pres. **National seminar on “Rural biotechnology for sustainable development”**, Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 19th – 20th February. Ab.p.18.
21. Dharani, P., B. Karunai Selvi, and A.D. Ravindran 2004. Study on microbial contamination of karunai and sowbhagyasunti lehiyam. **National seminar on “Rural biotechnology for sustainable development”**, Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 19th – 20th February. Ab.p.69.
22. Ravindran, A.D. 2004. Low cost kit to evaluate drinking water quality. **“International conference on recent Advances in Biosciences”** Organized by Institute of Biological Sciences, PGP College, Namakkal on Feb 12th and 13th. Ab.p FT-6.
23. Ravindran, A.D., and M.S. Dhana Rajan 2004.. Effect of Rhizobium and Cocomposted tannery sludge with organic waster on the growth of *Acacia nilotica* (Best paper) Ab.p.34. **“International conference on recent Advances in Biosciences”** Organized by Institute of Biological Sciences, PGP College, Namakkal on 12th and 13th Feb. Ab.p.BPS-13.
24. Ravindran, A.D., and M.S. Dhana Rajan 2004.. Effect of Rhizobium and Cocomposted tannery sludge with organic waster on the growth of *Acacia nilotica* (Best paper) Ab.p.34. **“International conference on recent Advances in Biosciences”** Organized by Institute of Biological Sciences, PGP College, Namakkal on 12th and 13th Feb. Ab.p.BPS-13.
25. Karunai Selvi, B., and A.D. Ravindran. 2004. Preservation palm of juice (Neera). **National Conference on “Microbes for Mankind”** Organized by the Department of Microbiology, Karpagam Arts and Science College, Coimbatore on 9th-10th January. Ab.p.6.

26. Mariappan, V., B. Karunai Selvi, and A.D. Ravindran. 2004. Isolation, characterization and biochemical properties of oxygenic and anoxygenic phototrophic bacteria. **National Conference on “Microbes for Mankind”** Organized by the Department of Microbiology, Karpagam Arts and Science College, Coimbatore on 9th-10th January. Ab.p.5.
27. Ravindran A.D., and B. Karunai Selvi. 2003. Palmyrah potential resource for bioethanol production. **Regional seminar on “People, Plants and Future”** Organized by the Department of Center for Futures Studies and Department of Biology, Gandhigram Rural Institute, Gandhigram on 21st –22nd February. Ab.p.
28. Hariharasuthan, A., B. Karunai Selvi, and A.D. Ravindran. 2003. Ethanol production from banana peel and cassava waste. **National Conference of “Bio-Fuels”** Organized by the Department of Industrial Biotechnology, Karpagam Arts and Science College, Coimbatore on 10th-11th January. Ab.p.5.
29. Ganesh, and A.D. Ravindran. 2002. Eco-friendly research strategies to promote sustainable horticultural production.
30. Rajan, A.N., and A.D. Ravindran. 1996. Growth and production of certain ornamental fishes fed with single cell protein enriched feeds. In: **Proceedings of fourth seminar cum Exhibition on student projects scheme** – held at MKU, Madurai (Aug1) p.30-32.
31. Uma, V. and A.D. Ravindran. 1996. Influence of tannery affected soils on Rhizobium –legume symbiosis. In: Proceeding of fourth seminar cum Exhibition on student projects scheme – held at MKU, Madurai (Aug1) p.49-52
32. Rajan, A.N., and A.D. Ravindran. 1996. SCP sources – enriched feeds for ornamental fishes. In: **state level seminar on Agriculture** held at S.T.Hindu College, Nagerkovil (23rd, 25th Feb).
33. Thilagavathy Daniel, and A.D. Ravindran. 1995. Indices for Rural Development in the field of Biology In: Proceeding of the **seminar on Indicators of Rural Development**, GRI, Gandhigram, March 9-10th p.126-127.
34. Ravindran, A.D. 1995. Symbiotic effectiveness of certain rhizobial strains expressing ex panta nitrogenase activity In: **Proceedings of National Seminar on Microorganisms in sustainable Agriculture** held at Thiagarajar College, Madurai (2nd and 3rd March) p.19.
35. Sivakami Sundari, and A.D. Ravindran 1995. Organic waste recycling through Biogas and Rural Technology In: **Home seminar on waste management and recycling**, Gandhigram 25th Feb.
36. Ravindran, A.D. 1994. Energy and Environmental Development in the Rural Sector. Paper presented for IFS Trainees at GRI, Gandhigram on 28th December.
37. Ravindran, A.D. 1994. Energy in the rural sector. Paper presented for **IFS Trainees** at GRI, Gandhigram on 11th Aug.
38. Ravindran, A.D. S. Ravanappa, and G.S.K. Saravanan. 1992 Recycling of certain wastewater effluents for biogas production. Paper presented at **National Solar Energy Convention – 92**, held at Indian Institute of Technology, Delhi on 28 – 31 Dec 1992.

39. Ravindran, A.D. 1992. Biogas and organic waste recycling. Paper presented at the **Ecological farming conference** held at Kodaikanal, Dec.
40. Appa Rao, P. V., M. Sivaraman, and A.D. Ravindran. 1992. Science teaching in school with improvised aids. Bulletin1. **In working on use of low cost science teaching aids** held at GRI, Gandhigram
41. Ganamani, J.P.M. S.Ravanappa and A.D. Ravindran. 1991. Ethanol production by yeast strains adapted to grow in clarified palm juice. In: **Yeast- Molecular Biology and biotechnology** Ed. Rajendra Prasad. Omega Scientific Publishers, New Delhi.
42. Ravindran, A.D. 1990. Science and Rural Development. Paper presented and discussed in the seminar of “ **Evolving replicable model for science Extension in University Curriculum for rural application**” held at GRI, Gandhigram, March 23-29.
43. Tamilselvan, K., C. Preamkumar, and A.D. Ravindran. 1990. Comparison of biogas production for different animal excreta. In: **Proceedings of the Sixth Annual Convention** Bioenergy society of India held at Madurai Kamaraj University, Madurai (Jan. 29-31) p.27.
44. Ganamani, J.P.M., S.Ravanappa A.D. Ravindran 1990. Production of ethanol from palm juice In: Proceedings of the **Sixth Annual Convention Bioenergy society of India** held at Madurai Kamaraj University, Madurai (Jan. 29-31) p.27.
45. Preamkumar, C., K. Tamilselvan, and A.D. Ravindran. 1990. Methane production using combination of cowdung and tannery effluent at feedstock material In: Proceedings of the **Sixth Annual Convention Bioenergy society of India** held at Madurai Kamaraj University, Madurai (Jan. 29-31) p.29.
46. Preamkumar, C., K. Tamilselvan, and A.D. Ravindran. 1990. Methane production using combination of cowdung and tannery effluent at feedstock material In: Proceedings of the **Sixth Annual Convention Bioenergy society of India** held at Madurai Kamaraj University, Madurai (Jan. 29-31) p.29.
47. Palanivelu, A., A.D. Ravindran, and Thilagavathy Daniel. 1990. An approach to save trees through installation of biogas plants a survey. In: Proceedings of the **Sixth Annual Convention Bioenergy society of India** held at Madurai Kamaraj University, Madurai (Jan. 29-31) p.41.
48. Ganamani, J.P.M., S. Ravanappa, and A.D. Ravindran. 1990. Ethanol production by yeast strains adapted to grow in clarified palm juice. In: Yeast- Molecular Biology and biotechnology Ed. Rajendra Prasad- proceedings of the **International Symposium on Molecular Biology of yeast in relation to Biotechnology** at JNU, New Delhi.
49. Ravindran A.D. 1989. A source of renewable energy In: **Symposium on trees** held at American College, Madurai, and p.34.
50. Ravindran A.D., N. Sivakumar, and P.V. Subramani 1988. preservation *Pseudomonas fluorescens* Palm juice. In: - Proceedings of the **Eighth Science Research Seminar In: Indigenous Technology for Rural development** held at Gandhigram (Aug. 27-28th) p.
51. Buela, S.J., N. Prema, A.D. Ravindran, and N. Kamalamma. 1988. Developing a methodology for improving the storage and distribution of drinking water in schools. . In: - Proceedings of the **eight Science Research Seminar In: Indigenous Technologies for Rural development**

held at Gandhigram (Aug. 27-28th).

52. Gopinath, N., A.D. Ravindran, N. Sivakumar, S. Ravanapa, and P.V. Subramanian. 1988. Scheme for increasing the yield of Palm sugar from neera. In: - Proceedings of the eight Science Research Seminar In: **Indigenous Technologies for Rural development** held at Gandhigram (Aug. 27-28th).
53. Rangarajan, M., A.D. Ravindran, and K. Hariharan. 1988. Immunofluorescent technique as a Biotechnological tool for identifying inoculated rhizobia in certain grain legumes. In: Abstr. **National Symposium on New Trends in Biotechnology** held at trivandrum (June 3-4th) p4.
54. Rangarajan M., and A.D. Ravindran. 1988. Competitiveness among the slow and fast growing rhizobial stains in nodule occupancy of *Vigna unguiculata* In: Abstr. **AMI annual Conference** held at Pune (Jan16-18th) p. 95.
55. Goyal, D.N., and A.D. Ravindran. 1987. Cultivation of Oyster Mushrooms. In: **Proceedings of the workshop for technology foe the weaker sections-modes and models** held at Gandhigram (Sep. 4-5) p.42
56. Ravindran A.D. N. Sivakumar, S. Ravanapa ,and P.V. Subramanian 1987. Fluctuation of yeast population in neera collected at varying pH levels. In: Abstr. **National Symposium on yeast for alcohol and fat production** held at CFTRI Mysore(Sep. 23-24)p.42.
57. Srinivasan, V., A.D. Ravindran, and P.V. Subramanian. 1987. Some studies on improved techniques in clarification of near so as to enhance sugar recovery In: Abstr. **Nat. Acad. Sci. Annual Session** held at Trichy, (Oct. 8-10) p.25.
58. Rangarajan, M., A.D. Ravindran and K.Hariharan. 1984. Occurrence of a lysogenic *Streptomyces* sp. On the nodule surface of black gram (*Vigna mungo* (L) Hepper) **Appl. Environ.Microbiol.** 48: 1114-1115.
59. Ravindran, A.D. and M. Rangarajan. 1984. Anactinophage inhibiting an antagonistic actinomycetes Nitrogenase activity of free living **TNAU news letter**13 (9):4
60. Ravindran, A.D., and M.Rangarajan 1986. The growth, respiration and in vitro nitrogenase activity of six strains of Rhizobium as influenced by certain carbon sources In: Abstr. **National Seminar on Microbial Ecology** held at Coimbatore (Jan 23-24) p.13.
61. Rangarajan, M., and A.D. Ravindran. 1984. Variation in the nodulation pattern of certain tree legumes in the nilgiris region of the western Ghat. In: **Proceeding of the seminar on Eco Development of Western Ghats** held at peechi, Derala (Oct.17-18th)
62. Ravindran, A.D. and M.Rangarajan 1981. Acetylene reduction activity of balckgram (*Vigna mungo*) as influence by incubation temperature. In: **AMI Annual Conference** held at Lucknow Jan22-23th
63. Ravindran A.D. and M.Rangarajan 1980. Growth and respiration of these rhizobial strains of black gram as influence by hydrogen ion concentration In: **Pro. Nat. Symposium of Biological Nitrogen fixation** held at Coimbatore. Dec. 29-31th) p.16.
64. Ravindran, A.D. and M.Rangarajan 1980. Effect of soil salinity on rhizobium blackgram symbiosis In: **Proc. Nat. Symposium of Biological Nitrogen fixation** held at Coimbatore

Book Published

1. **Advances in Environmental Biotechnology** – Proceedings of the National Seminar on Biodegradation and Bioremediation, Madurai, India. September 2004.
2. **Advances in Solid Waste Management** – Abstracts of the National Conference on Advances in Solid Waste Management, GRI, Gandhigram, India. February 2005.
3. **Fundamentals of Composting** – Book published by +G Publishing, Dindigul – May 2005.
4. **Handbook to the Birds of Perumparai** – Easy identification of Birds for Bird Watchers – February 2008.
5. **Energy Security for Rural Development – ESRD 2009** – Abstracts of the National Conference on Energy Security for Rural Development – March 2009.
6. **Handbook to the Butterflies of Gandhigram** – Easy identification of Butterflies for Nature Enthusiast – July 2009.

11 Short Term Courses / Symposium / Conference attended

Month/Year	Details	Place
Sep. 1987	National Symposium on yeast for Alcohol Production	Mysore
Sep. 1987	Workshop on technology for the Weaker sections	Gandhigram
Oct. 1987	Proc. Nat. Acad. Sci (Annual Session)	Trichy
Aug. 1988	Seminar in Indigenous Technologies for Rural Development	Gandhigram
Nov. 1989	Symposium on Trees	Madurai
Jan. 1990	Annual Convention Bio-energy Society of India	Madurai
Jan. 1990	International Symposium on Molecular Biology of yeast in relation to biotechnology	New Delhi
Mar. 1990	Evolving replicable models of Science extension in University Curriculum Workshop	Gandhigram
Oct. 1990	Biotechnology of methanogenic anaerobes short term training programme	Coimbatore
Apr. 1992	Science teaching in schools with improvised aids	Gandhigram
Dec. 1992	Ecological farming conference	Kodaikanal
Dec. 1993	IFS Training Programme Forestry in Rural Development	Gandhigram

Feb. 1999	Organized symposium on AIV/AIDS/STD and healthy life style	Gandhigram
Jul. 1999	86 th Indian Science Congress	
Aug. 1999	State level Symposium “NSS in the New Millennium”	University of Madras, Chennai
Dec. 1999	Animal welfare Programme	GRI, Gandhigram
Aug. 1999	NSS Key functionaries workshop “ Refugees problem and Remedies”	Madras school of Social work, Chennai
Feb. 1999	Symposium on HIV/AIDS/STD and Health style	GRI, Gandhigram
Mar. 1999	Indian Social Science Congress	GRI, Gandhigram
Mar. 2001	UGC Sponsored Workshop on “ Working towards a disabled friendly campus”	GRI, Gandhigram
Dec. 2001	One day conference and experts group discussion on development of biogas & renewable energy programme in education Institutions	GRI, Gandhigram
Apr. 2002	National Seminar on status, Trends and supervision on research in rural development	GRI, Gandhigram
Sep. 2004	National Seminar on Biodegradation and Bioremediation”	Sourashtra College Madurai
Feb. 2005	National Conference of Advances in Solid Waste Management	GRU, Gandhigram
Dec. 2006	National Conference on Environmental Pollution Management and Sustainable Development	GRU, Gandhigram
Mar.2009	National Conference on Energy Security for Rural Development- ESRD 2009.	GRU, Gandhigram

12	Short Term Courses / Seminar / Conference organized
<p>1. “Hands on Training Programme in Microbial Techniques” conducted for 38 students of Jeyaraj Annapackiam College for Women, Periyakulam. Orgnized by the Dept of Biology, GRI, Gandhigram on February 2002.</p> <p>2. National Conference of Advances in Solid Management. Organized by the Department of Biology, Gandhigram Rural Institute, Gandhigram on 22th – 23th February, 2005.</p> <p>3. National Conference on Energy Security for Rural Development ESRD–2009” sponsored by Ministry of New and Renewable Energy & University Grants Commission. Organized by the Rural Energy Centre, Gandhigram Rural University, Gandhigram on 26th March 2009.</p> <p>4. One day hands on training on “Plasmid Isolation, PCR and Electrophoretic Techniques” Organized for P.G Students (20 Nos.) – Dept of Biology, GRU, Gandhigram on March 2009.</p> <p>5. Energy Conservation – Agri Mela jointly organized with KVK, GRU on 16th March 2009.</p>	

13	Membership in Scientific Bodies / Association
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1. National Geographic Society, U.S.A.
2. Indian Yeast Group, India.
3. All India microbiologist Association, India.
4. President, Palani Hills Bird Watchers Society, (PHBWS) Athoor, Dindigul Dist.
5. Member, Perumparai Environmental Centre, Perumparai, Dindigul Dist.

14	Resource Person (Inaugural address / Guest Lecture / Chairman)
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| 1. Chief Guest for Electrical and Electronics Engineering Association at RVS Polytechnic College, Dindigul |
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15	Reviewer for Journals
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| 1. Journal of Extension and Research |
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16	Fellowships Received
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UNDP/ FAO fellowship for Ph D Programme
