

CRITERION – III

RESEARCH, CONSULTANCY AND EXTENSION

Criterion III: Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Is there a Research Committee to facilitate and monitor research activity? If yes, give details on its activities, major decisions taken (during last year) and composition of the Committee.

Yes. We, very clearly know the significance and need of Research Activity as it only leads to man's aimed perfection. To facilitate and monitor the research activity, we have the following Research Committee:

The Principal	-	Ex-officio Chairman
Dr.M.K.Loganathan	-	Management Representative
Dr.M.Parthiban	-	Member of the College Committee
Dr.J.Thulasi	-	Member of the College Committee
Mr.K.Sekar	-	Member of the College Committee
Dr.L.Veerakumari	-	Member

The committee discusses the proposals and finalises the claims. Permission to attend conferences, seminars, workshops are granted and teachers are motivated for further research work. For the conduct of seminars and conferences in our college.

In addition to the College has UGC Grants Process Committee to prepare the proposals and sends to UGC. Teachers are motivated and inspired to go for Major / Minor Research Work. Since last five years, almost all the teachers have attended various seminars, conferences at National and International Levels for which the profile of the individual are appended separately. However, some of the details are tabled hereunder.

Research Activities of Dr.S.Gunasekaran, Associate Professor and HOD of Physics

Spectroscopy is one of the pioneering fields of research and finds applications in all branches of science. With the sophistication in instrumentation due to improvement in technology and availability of efficient data analysis software, spectroscopy has become an indispensable tool and the results are applied in all fields of science far and wide be it in physics, chemistry, biology, pharmaceutical sciences, medicine, forensic science, nano science and so on and so forth.

He has associated with this wonderful field of Spectroscopy for the past thirty years. I am guiding students since 1991 ever since the Dept. of Physics, Pachaiyappa's College has been upgraded as Research Department. **I have so far guided 50 students for**

their Ph.D Degrees and some more students are pursuing their research under my guidance. The list of Ph.D. awardees under my supervision is given below

List of Ph.D. awardees

S. No.	Name	Year	Topic
1	Dr.M. Rathnakumari	November 1996	Spectroscopic Investigation on Some Selected Industrial Polymers
2	Dr. S. Xavier Jesuraja	December 1996	Fourier Transform Infrared and Laser Raman Spectroscopic Investigations on Some Polyatomic Molecules and their Vibrational Analysis
3	Dr.P. Arulmozhichelvan	September 1998	Spectroscopic and Microwave Measurements of Some Crystalline, Ceramic, Polyatomic and Pharmaceutical Materials
4	Dr. S. R. Varadhan	November 1998	Spectroscopic Investigation on Some Inorganic, Organic, Crystalline and Pollutant Samples
5	Dr. J. Marshall	December 1998	Spectroscopic Investigation of Some Polyatomic and Biological Molecules
6	Dr. K. Srinivasan	January 1999	Spectroscopic Investigation on Some Selected Compounds of Commercial Importance
7	Dr. Usha Rao	January 2000	Spectroscopic Investigation on Some Selected Organic, Inorganic, Crystalline, Biological and

			Pharmaceutical Importance
8	Dr. M. Parasuraman	February 2002	Spectroscopic Investigation on Some Compounds of Commercial and Pharmaceutical Importance
9	Dr. S. Shreemathi	May 2002	Spectroscopic Measurements on Some Explosive Materials and Analysis of Potential Factors for Incidence and Growth of Cancer
10	Dr. R. Jagannathan	May 2002	Spectroscopic and Dielectric Investigation of Some Samples of Industrial Importance
11	Dr. Leela Abraham	July 2002	Spectroscopic Analysis on Some Samples of Pharmaceutical and Biological Importance
12	Dr. Shiela Mutunayagam	September 2002	Spectroscopic Measurements of Pollutants and Analysis of Pollution Control
13	Dr. A. Subramanyam	October 2002	Microwave and Spectroscopic Measurements on Some Materials of Industrial and Pharmaceutical Importance
14	Dr. K. Manimegalai	August 2003	Investigation of Biotic Fluids by Spectroscopic Methods
15	Dr. P. Rajkumar	January 2004	FTIR, FTR and UV-VIS Spectral Investigation on Some Pharmaceutical and Biological Materials
16	Dr. Hemamalini	January	Spectroscopic Investigation and Characterization of

	Rajagopal	2004	Some Industrial Thermoplastic Polymers
17	Dr. G. Sankari	October 2004	Spectroscopic Investigation on Some Materials of Pharmaceutical and Biological Interest
18	Dr. S. Ponnusamy	March 2005	Growth and Characterization of Some Non-Linear Optical (NLO)
19	Dr.V.Sathyanarayan a-moorthy	April 2005	Quantum Mechanical Studies on Solvent effect and Molecular Conformational Analysis of certain Halo Alkenes
20	Dr. S. Muthu	June 2005	Spectroscopic Investigation on Some Pharmaceutical and Biological Importance
20	Dr. S. Muthu	June 2005	Spectroscopic Investigation on Some Pharmaceutical and Biological Importance
21	Dr. B. Krishnan	October 2005	Spectroscopic and Ultrasonic Investigation on Some Materials of Industrial and Pharmaceutical Importance
22	Dr. S. Srinivasan	February 2006	Molecular mechanics Calculations of some organic Compounds
23	Dr. M. Thilak Kumar	July 2006	Spectroscopic Investigation on Some antiepileptic and adrenergic drugs
24	Dr. M. Kanchana Devi	July 2006	Spectroscopic Investigation on Some antidiabetic drugs and diabetes mellitus
25.	Dr. G. Anbalagan	February 2007	Structural Investigation, Thermal Analysis and Dielectric Studies on some

			Natural Carbonate Minerals.
26.	Dr. Sayeeda Sulthana	March 2007	Synthesis and characterization of some co-polyesters by spectroscopic and thermal analysis
27.	Dr. T. S. Renuga Devi	July 2007	Spectroscopic analysis of lipid disorders and study on the quality and efficacy of statins and fibrates..
28.	Dr. K. Santhosam	November 2007	Spectral analysis on some Pharmaceutical materials and characterization of blood of diabetic and renal failure subjects.
29.	Dr. R. Rathikha	December 2007	Spectrophysical Investigation on some samples of pharmaceutical, biological and agricultural importance.
30	Dr. S. Seshadri	January 2008	Spectroscopic analysis on some pharmaceutical and characterization of cardiac blood samples.

31	Dr. D. Shyamala	February 2008	Growth and characterization of some non-linear optical crystals.
32	Dr. P. Abitha	June 2008	Characterization of some ceramic materials by spectroscopic, dielectric and XRD techniques
33	Dr. E. Sailatha	July 2008	Spectroscopic analysis on some pharmaceutical formulations and characterization of certain biological materials.
34	Dr. D. Uthra	July 2008	Analysis of some materials of Pharmaceutical and biological interests - Spectroscopic Approach
35	Dr. V. Renganayaki	September 2008	Qualitative and Quantitative analysis of some materials of pharmaceutical, biological and agro chemical significance by spectroscopic methods.
36	Dr. A. Kala	September 2008	Investigation on physico-mechanical and dielectric properties of some vulcanized, reinforced and blended rubber materials.
37	Dr. J. Balaji	July 2008	Spectroscopic, physical, chemical and ultrasonic investigation on some materials of technological importance.
38	Dr. B. Anitha	December 2008	Structural Investigation and quality analysis on some anti insective drugs by spectroscopic methods.
39	Mr. S. Kumaresan	June 2009	Vibrational spectral studies on some anti cancerous

			drugs
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40	Dr. A. Julie	October 2009	Spectroscopic, Thermal and dielectric studies on some rubber and polymeric materials.
41	Dr. M. Balakrishnan	October 2009	Analysis of water pollutants by spectroscopic methods and assessment of Ground water quality in and around chemical, pharmaceutical, tannery, petroleum & dyeing sites
42	Dr. R. Arun Balaji	April 2010	Molecular confirmation studies on some anti convulsant drugs
43	Mrs. S. Djodilatchoumy	Thesis Submitted in Sept. 2010. Awaiting Viva voce Examination	A computational model for the characterization of diseased blood and analysis on the efficacy of chemotherapy using spectral data
44	Mr. E. Krishnamurthy	Thesis Submitted in Sept. 2010. Awaiting Viva voce Examination	Spectroscopic investigation, ab-initio calculation and thermal analysis on some anhydrous natural carbonate minerals
45	Mr. S. Jayakumaran	Thesis Submitted in Sept. 2010. Awaiting Viva voce Examination	Spectroscopic investigation on some Biological materials
46	Mrs A. Bright	Thesis Submitted in January 2011. Awaiting Viva voce Examination	Spectrometric Investigation on some Pharmaceutical and Biological materials
47	Mrs R.Rajalakshmi	Thesis Submitted in February 2011. Awaiting Viva voce Examination	Spectral Analysis of Veterinary Vaccines on Animals

48	Mrs. R. Meenakshi	Thesis Submitted in March 2011. Awaiting Viva voce Examination	Experimental And Theoretical Spectroscopic Investigation On Some Antianginal Drugs
49	Mrs. Lakshmi Jagannathan	Thesis Submitted in March 2011. Awaiting Viva voce Examination	FTIR,FTRaman And UV Spectra & Quantum Chemical Investigation of Some Cardiovascular Drugs
50	Mr. A. Anand	Thesis Submitted in June 2011. Awaiting Viva voce Examination	Growth and Characterization of some NLO crystals

We have done quality research work in various fields, both theoretical and experimental. As an outcome of sustained research, **I have published more than 181 original research articles in reputed International and National journals having high impact factor.** Many of my articles have been cited by various authors in their publications worldwide. With this experience I have been the referee for many International and National journals

Research activities of Dr.L.Veerakumari, Associate Professor and HOD of Zoology

RESEARCH PROJECTS COMPLETED DURING : 4

LAST FIVE YEARS AND THEIR OUTLAY

I DST Major Research project

- A. Investigator : Dr. Mrs. L.VEERAKUMARI, M.Sc., M.Phil., Ph.D.,
- B. Project Title : Effect of some indigenous plant extracts on Paramphistomes- A structural and biochemical analysis
- C. Status : Completed
- D. Duration : 3 Years (May 2002 to May 2005)
- E. File No : SP/SO/004/ 2001
- F. Total Cost : Rs.8,78,400/- (Sanctioned)Rs.9,67,000/- (Revised)

G. Name of the : DST

II UGC Minor Research project

A. Investigator : Dr. Mrs. L.VEERAKUMARI, M.Sc., M.Phil., Ph.D.,
B. Project Title : *In vitro* studies on the effect of some indigenous plant
extracts on *Haemonchus contortus*
C. Status : Completed
D. Duration : 2 Years (March 2005 to March 2007)
E. File No : MRP- 702/05
F. Total Cost : Rs. 95,000/-
G. Name of the : UGC
funding agency

III UGC Major Research project

A. Investigator : Dr. Mrs. L.VEERAKUMARI, M.Sc., M.Phil., Ph.D.,
B. Project Title : *In vitro* studies on the effect of some indigenous plant extracts on
Haemonchus contortus
C. Status : Completed
D. Duration : 3 Years (April 2008-april2011)
F. Total Cost : Rs. 8,70,000/-
G. Name of the : UGC
funding agency

IV TNSCST Project

A. Investigator : Dr. Mrs. L.VEERAKUMARI, M.Sc., M.Phil., Ph.D.,
B. Project Title : Effect of Punica granatum on Cotylophoron
cotylophorum(Fiscoeder, 1901)
C. Status : completed
D. Duration : 2 Years (March 2009 to March 2011)
E. File No : TNSCST/S&T Project/RJ/BS 2008-2009/893
Dated 04.05.2009
F. Total Cost : Rs.70,000

G. Name of the : TNSCST

RESEARCH PROJECT ONGOING:

V DST Major Research project

A. Investigator : Dr. Mrs. L.VEERAKUMARI, M.Sc., M.Phil., Ph.D.,

Co Investigator : Dr. A. Saraswathi, M.Sc., Ph.D., D.Sc.

B. Project Title : *In vitro* and in silico studies on the effect of some phytochemicals on paramphistomes

C. Status : Ongoing

D. Duration : 3 Years (March 2008 to March 2011)

E. File No : SR/SO/AS-43/2008

F. Total Cost : Rs. 29,18 280 /-

G. Name of the : DST
funding agency

Research scholars working in UGC and DST funded projects

S.No..	Name of candidates	Funding organization	Status	Year
1	P.Priya	DST	Awarded Ph.D	2002-2006
2	K. Navaneethalakshmi UGC	UGC	Awarded P.h.D	2002-2006
3	C. Murugesan	JNU	completed	2005 Oct-2007
4.	N. Chitra	UGC	completed	2008 April-2011
5.	K.Lalhmingchhuanmawii	DST	Ongoing	2009 March-2011
6.	R.Ashwini	DST	Ongoing	2009 March- 2011

Research Activities of Dr.T.Sekar, Assistant Professor of Botany

RESEARCH SPECIALIZATION

- Plant Anatomy

- Plant Tissue culture
- Ethnobotany
- Ethnoveterinary Medicine
- Biodiversity
- Phytochemistry

RESEARCH GUIDANCE

- M.Phil., Awarded - 42
- Ph.D. Degree awarded - 01
- Guiding Ph.D Scholars - 08
- Guiding Postdoctoral Fellow - 01 (UGC)

BOOKS PUBLISHED

- Degree Level - 02
- School Level - 10

TEXT BOOK AUTHOR/REVIEWER

- Tamil Nadu Text Book Corporation
- XII Std. – Bio/Botany (Eng/Tamil Medium)
- XII Std. Botany (Eng/Tamil Medium)
- X Std. Matric. Botany
- VI Std. to XII Std. Environmental Studies
- B.Sc., Degree Ancillary Botany
- The green wealth of Pachaiyappa's College

MEMBERSHIP/ FELLOWSHIP IN PROFESSIONAL BODIES

- Botanical Society of India
- Fellow of Indian Academy of Wood Science
- Bomboo Society of India
- Indian Spectrophysics Association.
- International Society of Plant Morphologists
- Society for Plant Biochemistry and Biotechnology
- Indian Society for Education and Environment
- Society for Conservation & Resource Development of Medicinal Plants

- Indian Science Congress Association

MEMBER, BOARD OF STUDIES

- PG - Botany, Bharathidasan University
- UG - Botany, Periyar University

MEMBER, EDITORIAL BOARD/ REVIEWER IN FUNDING AGENCIES

- Medicinal Plants, an International Journal
- Department of Science and Technology, Govt. of India
- National Medicinal Plants Board, Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India, New Delhi

MEMBER, BOARD OF EXAMINATION

Universities

- University of Madras
- Bharathidasan University
- Thiruvalluvar University

Autonomous Colleges

- Presidency College, Chennai
- Queen Mary's College, Chennai
- Madras Christian College, Tambaram
- Govt. Arts College, Chennai
- Mennakshi College for Women, Chennai
- RKM Vivekananda College, Chennai
- The New College, Chennai
- Ethiraj College, Chennai

RESOURCE PERSON & GUIDE

- M.Phil., Ph.D., University of Madras
- M.Phil., Bharathidasan University, Trichy
- M.Phil., Periyar University, Salem

LIST OF JOURNALS SUBSCRIBED

S.No.	Journal Name	Frequency	ISSN No.
1.	Current Science	Fortnightly	0011-3891
2.	Indian Forester	Monthly	0019-4816
3.	Indian Journal of Biotechnology	Quarterly	0972-5849
4.	Indian Journal of Medical Research	Monthly	0971-5916
5.	Indian Journal of Natural Products and Resources	Quarterly	0972-592X
6.	Indian Journal of Pharmacology	Monthly	0253-7613
7.	Indian Journal of Science and Technology	Monthly	0974-6846
8.	Indian Journal of Traditional Knowledge	Quarterly	0972-5938
9.	Journal of Plant Biochemistry and Biotechnology	Quarterly	0971-7811
10.	Medicinal and Aromatic Plants Abstracts	Bi-monthly	0250-4367
11.	Medicinal Plants, an International Journal	Quarterly	0975-4261
12.	Phytomorphology, an International Journal	Bi-annually	0031-9449
13.	The Journal of the Indian Botanical Society	Monthly	0019-4468

RESEARCH ACTIVITIES (Year-wise)

2006-2007

1. PROJECTS RECEIVED

1. Title of the Project	:	Propagation of Bamboo (UGC-Minor)
Duration	:	18 months (2005-2007), Starts from 01-02-2005.
Ref. No.	:	F. MRP. 659/05 (UGC-SERO) Link No. 1659
Funding Agency	:	UGC – SERO, Hyderabad
Amount sanctioned	:	Rs. 95,000/-
Staff appointed	:	Nil

Objectives/ Deliverables:

The nodal explants of Bamboo were collected and inoculated in MS medium supplemented with NAA and 2,4-D. The initial swellings of the nodal segments were observed in 10-12 days of culture. Two types of calluses were observed. The induction of shoots from the nodular and compact callus by gradually decreasing the concentration of 2,4-D with low concentration of NAA. The regenerated shoots were showed root proliferation in the same medium. The micropropagated seedlings were maintained in the college campus for further studies.

2. Title of the Project	:	Micropropagation of Selected Medicinal Plants in Tamil Nadu
Duration	:	Three Years (2005-2008), Starts from 17-02-2006
Ref. No.	:	F.No. Z.18017/187/Pr.Go/TN-05 /NMBP/ dt. 12.12.05
Funding Agency	:	National Medicinal Plants Board, Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India, New Delhi
Amount sanctioned	:	Rs.9,00,000/-
Staff appointed	:	Nil

Objectives/ Deliverables:

An efficient plant regeneration protocol was developed for important medicinal plants such as *Ruta graveolens*, *Decalepis hamiltonii* and *Mappia foetida*. The micropropagated seedlings were maintained in the college campus for further studies

and supply to the needy farmers.

2. CONFERENCE ATTENDED

- International Conference on “Opportunities & Challenges in Biotechnology and Environmental Sciences – Erode, India, 22-23rd February 2007.
- Second International Conference and Indo-Canadian Satellite Symposium on Pharmaceutical Science, Technology, Practice and Natural Products, - Ooty, India, 24-26th February 2007.
- National Workshop on Medicinal Plants - Sri Venkateswara University, Tirupati, Andhra Pradesh, India, 10-11th March 2006.
- National Symposium on Current Trends in Medicinal Plants and Herbal Technology - K.M. Centre for Post - Graduate Studies, Pondicherry, India, 22-24th July 2006.
- Regional Seminar on Herbal Medicine – The Changing Scenario- Women’s Christian College, University of Madras, Chennai, 10-11th August 2006.
- National Conference on Recent Trends on Medicinal Plants Research, Centre for Advance Studies in Botany, University of Madras, Chennai, India. 24-25th January 2007.
- National Conference on Status and Prospectus of Medicinal Plants Resources and Herbal Technology, PG & Research Dept. of Botany, Saraswathi Narayanan College, Madurai, India, 26-28th July 2007.

3. PUBLICATIONS:

- Sekar, T. and Gopalakrishnan, M., 2007. Micropropagation of *Ruta garveolens*. *Journal of Tropical Medicinal Plants* 8 (2): 224-230.

4. TRAINING:

- Workshop on *Herbal Medicine – The Changing Scenario*, Dept. of Plant Biology and Plant Biotechnology, The Women’s Christian College, Chennai – 6, Tamil Nadu, August 10, 2006, August 11, 2006.

- National Workshop on *Medicinal Plants*, Dept. of Botany, Sri Venkateswara University, Tirupathi, Andhra Pradesh, March 10, 2006, March 11, 2006.

2007-2008

1. PROJECTS RECEIVED: Nil

2. CONFERENCES ATTENDED:

- International Symposium on Global Trends in Biomedical Informatics Research and Education. Sai bio Sciences Madras, India. 11-12 January 2008.

3. PUBLICATIONS

- Janarthanam, B., Gopalakrishnan, M. and Sekar, T., 2008. A rapid *in vitro* propagation method for *Vanilla planifolia*. *Journal of Tropical Medicinal Plants* 9 (1): 49 – 52.

4. TRAINING:

- Refresher Course in *Bio-Technology*, UGC – Academic Staff College, University Of Madras, Chennai – 5, Tamil Nadu, November 16, 2007, December 06, 2007.
- National Workshop on *Biodiesel*, School of Energy, Environment and Natural Resources, MKU, Madurai, Tamil Nadu, October 17, 2007, October 18, 2007.

2008-2009

1. PROJECTS RECEIVED: Nil

2. CONFERENCES ATTENDED:

- International conference on Industrialization Institutional Research on Phytomedicines - PSGR Krishammal College for women, Coimbatore, India 8-9th January 2009.
- National Conference on Modern Trends in Plant *In vitro* Biology, Dept of Plant Science, Bharathidasan University, Trichy, 5-6th January 2009.

3. PUBLICATIONS

- Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2009. *In vitro* plant regeneration from nodal explants of *Exacum travancoricum*. *Journal of Tropical Medicinal Plants* 10 (2): 205-208.

- Janarthanam, B., Gopalakrishnan, M., Lakshmisai, G. and Sekar, T., 2009. Plant Regeneration from leaf derived Callus of *Stevia rebaudiana*. *Plant Tissue Culture and Biotechnology* 19 (2): 133-141.
- Udayakumar, M., Ayyanar, M. and Sekar, T., 2009. Indigenous knowledge on medicinal plants among the local people of Puducherry region (Union Territory), India. *Ethnobotanical Leaflets* 13: 1401-408.
- Gopalakrishnan, M., Janarthanam, B., Lakshmi Sai, G. and Sekar, T., 2009. Plant regeneration from leaf explants of *Plumbago rosea* L. *Plant Tissue Culture and Biotechnology* 19 (1): 79 – 87.

4. ORGANIZATION OF SEMINAR/SYMPOSIA

- Organized “National Seminar on Current Trends in Medicinal Plants Research and Herbal Technology” during 7th & 8th March, 2008 at Department of Botany, Pachaiyappa’s College, Chennai, Tamil Nadu.

2009-2010

1. PROJECTS RECEIVED:

1. Title of the Project	:	<i>In vitro</i> propagation of <i>Phyllanthus debilis</i> (UGC-Minor)
Duration	:	18 months (2009-2010), Starts from 01-02-2009
Ref. No.	:	F. MRP – 2686/09(MRP/UGC-SERO) Link No. 2686
Funding Agency	:	UGC - SERO, Hyderabad
Amount sanctioned	:	Rs.1,25,000/-
Staff appointed	:	Nil
Objectives/ Deliverables: <i>Phyllanthus debilis</i> is widely distributed herb in southern Western Ghats of Tamil Nadu. In vitro propagation of the plant has not yet been reported so far. The healthy plants of <i>P. debilis</i> were collected from Shenbagadevi falls in Western Ghats of Tamil Nadu. The nodal explants were inoculated on MS medium supplemented with individual concentration of BA, KN, NAA and 2,4-D. In addition, the wild accessions of <i>P. debilis</i> were screened for antioxidant and free radical scavenging activity. The micropropagated seedlings were maintained in the college campus.		

2. Title of the Project	:	Molecular Analysis and Mass Propagation of Globally Vulnerable <i>Salacia</i> Species
Duration	:	Three years (2009-2012), Starts from 16-02-2009
Ref. No.	:	F. No. Z. 18017/187/Pr. GO/TN-04/ 2008– 09
Funding Agency	:	National Medicinal Plants Board, New Delhi
Amount sanctioned	:	Rs.17,00,000/-
Staff appointed	:	Nil

Objectives/ Deliverables:

- Collection and identification of healthy plants of *Salacia oblonga* and *Salacia reticulata* from different region of South India.
- Extraction and screening of secondary metabolites from wild accessions using HPLC/GC –MS analysis.
- Genetic fidelity tests (RAPD analysis): Determination of plant genomic variability between different wild accessions of *Salacia oblonga* and *Salacia reticulata*.
- Mass multiplication and distribution of elite plants of *Salacia oblonga* and *Salacia reticulata* at free of cost for cultivation.

2. CONFERENCES ATTENDED:

- International conference on *Research on Phytomedicines* - PSGR Krishammal College for women, Coimbatore, 8-9th January 2009.
- National Conference on *Modern Trends in Plant in vitro Biology*, Dept of Plant Science, Bharathidasan University, Trichy, 5-6th January 2009.

3. PUBLICATIONS

- Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2009. *In vitro* plant regeneration from nodal explants of *Exacum travancoricum*. *Journal of Tropical Medicinal Plants* 10 (2): 205-208.
- Janarthanam, B., Gopalakrishnan, M., Lakshmisai, G. and Sekar, T., 2009. Plant Regeneration from leaf derived Callus of *Stevia rebaudiana*. *Plant Tissue Culture and Biotechnology* 19 (2): 133-141.
- Udayakumar, M., Ayyanar, M. and Sekar, T., 2009. Indigenous knowledge on medicinal plants among the local people of Puducherry region (Union Territory), India. *Ethnobotanical Leaflets* 13: 1401-408.

- Gopalakrishnan, M., Janarthanam, B., Lakshmi Sai, G. and Sekar, T., 2009. Plant regeneration from leaf explants of *Plumbago rosea* L. *Plant Tissue Culture and Biotechnology* 19 (1): 79 – 87.

4. ORGANIZATION OF SEMINAR/SYMPOSIA

- International Conference on “*Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation, Sustainable Utilization and Conservation*” during 4th to 6th March, 2010 at Pachaiyappa’s College, Chennai.

5. TRAINING

- Refresher Course in *Nanoscience*, UGC – Academic Staff College, University of Madras, Chennai – 5, Tamil Nadu, November 11, 2009, December 01, 2009,

2010-2011

1. PROJECTS RECEIVED:

1. Title of the Project	:	Molecular characterization, <i>in vitro</i> propagation and <i>ex situ</i> conservation of <i>Strychnos minor</i> (Loganiaceae) an Endemic medicinal plant
Duration	:	Three years (2010-2013), Starts from 02-02-2010
Ref.No.	:	F. No 38-156/2009 (SR) dt.21.12.2009
Funding Agency	:	University Grants Commission, Govt. of India, New Delhi
Amount sanctioned	:	Rs. 7,80,000/-
Staff appointed	:	Mr. T. Arumugam (Project Fellow)
Objectives/ Deliverables: <ul style="list-style-type: none"> The output will hopefully attract the attention of forest development corporations and also the researchers to establish clonal propagation of rare, endangered and endemic species for sustainable utilization. This efficient regeneration protocol regenerated for the plants may be utilized by the pharmaceutical companies for the mass production of raw materials for the preparation of drugs. Large number of plants can be multiplied and supplied to medicinal plant gardens and that will decrease their degradation from the natural habitats. The RAPD analysis of <i>in vitro</i> grown plant of <i>Strychnos minor</i> will help to check the genetic integrity of the micropropagated plants. 		

2. Title of the Project	:	<i>In vitro</i> propagation and Establishment of <i>Rosa bourboniana</i> in the identified Rural Areas by organic cultivation
Duration	:	Three years (2010-2013), Starts from 10-06-2010
Funding Agency	:	Department of Science and Technology, Govt. of India, New Delhi
Ref. No.	:	File No.SSD/SCSP/002/2009 dated 10 th June 2010
Amount sanctioned	:	Rs. 11,97,000/-
Staff appointed	:	Mr. P. Rajesh Babu (Project Scientist)

Objectives/ Deliverables:

- A standardized protocol for the *in vitro* propagation of *Rosa bourboniana* was designed in the project in a cost effective and time consuming manner.
- For vermicomposting, in the initial stage 5 pits in the Aathupakkam village was constructed. Cow dung & vegetable waste was used as composting material. First set of product was harvested & packed in carry bags.
- The 3 villages namely Natham, Aathupakkam and Rettambedu in the Gummidipoondi panchayat union of Thiruvallur district has been adopted to do the vermitechnology in the rose cultivation.

3. Title of the Project	:	Survey of Ethnoveterinary Medicinal (EVM) plants in southern Western Ghats of Tamil Nadu
Duration	:	Three years (2010-2013), Starts from 02-09-2010
Ref. No.	:	No. 59/12/2009/ BMS/ TRM dated 03.08.2010
Funding Agency	:	Indian Council of Medical Research, Govt. of India, New Delhi
Amount sanctioned	:	Rs. 5,21,000/-
Staff appointed	:	Mr. V. Karthik

Objectives:

- To locate and interact with the traditional healers and document their knowledge on ethnoveterinary medicinal plants usage, types of animals and diseases treated etc in southern Western Ghats of Tamil Nadu
- To collect sample specimens of medicinal plants for correct identity
- To assess the folk veterinary knowledge and practices for their efficacy based on the published literatures
- To disseminate and create awareness among other tribal and rural people regarding the use and importance of traditional ethnoveterinary healing practices.
- To develop database of ethnoveterinary medicinal plants

4. Title of the Project	:	Scientific validation of ethnoveterinary medicine practiced by indigenous people in northern Eastern Ghats of Tamil Nadu: collection, documentation and promotion of ethnoveterinary practices
Duration	:	Three years (2010-2013), Starts from 01-09-2010
Ref. No.	:	F. No.Z.15017/ 10/2010-LHT dated 09.06.2010
Funding Agency	:	Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India, New Delhi
Amount sanctioned	:	Rs.24,00,000/-
Staff appointed	:	Mr. A. Selvaraju (Senior Research Fellow) Mr. M. Suresh (Junior Research Fellow)

Objectives:

- To prioritize and document the local ethnoveterinary practices among the indigenous people in northern Eastern Ghats of Tamil Nadu.
- Ethnoveterinary medicines practiced by local communities in the study area will be assessed with the previously published literature for further biological studies.
- To screen the commonly used ethnoveterinary medicinal plants for phyto-chemical analysis with various solvent extracts.
- Preliminary screening of Ethnoveterinary medicinal plants against ectoparasites of ruminants
- To identify the purified molecules from active fractions of EVM plants using TLC and HPLC.
- Cultivation and distribution of scientifically validated EVM plants to the indigenous people to enhance their livelihood.
- To disseminate the use and importance of ethnoveterinary healing practices through various extension programmes among other tribal and rural people to improve their income by practicing EVM practices.

2. CONFERENCES ATTENDED:

- National Conference on *Herbal Medicine*, Bharathiar University, Coimbatore, Tamil Nadu, September 8th & 9th, 2010.
- National Level Seminar on "*Biodiversity and its Conservation*", Department of Botany, Kittel Science College, Dharwad, Karnataka, August 28th & 29th, 2009.

3. PUBLICATIONS

- Rajeshbabu, P., Ayyanar, M., Rasool, S.K., Sheriff, M.A. and Sekar, T., 2011. *In vitro* antibacterial activity of *Piper betel* L. and Black betel cv. *Kammar* leaves

against *Staphylococcus aureus* and *Streptococcus pneumonia*. *Journal of Pharmacy Research* 4(7): (In press)

- Jeyaprakash, K., Ayyanar, M. K. N. Geetha and Sekar, T., 2011 Ethnomedicinal knowledge of Muthuvar and Paliyar Tribal Communities in Theni District (Western Ghats), Southern India. *Asian Pacific Journal of Tropical Biomedicine* (In press)
- Karthik, V., Raju, K., Ayyanar, M., Gowrishankar, K and Sekar, T., 2011. Ethanomedicinal Uses of Pteridophytes in Kolli Hills, Eastern Ghats of Tamil Nadu, India. *Journal of Natural Product and Plant Resources* 1(2): 50-55.
- Udayakumar, M., Ayyanar, M. and Sekar, T., 2011. Angiosperms of Pachaiyappa's College, Chennai, Tamil Nadu, India. *Check List, Journal of Species Lists and Distribution* 7(1): 37 – 48.
- Ayyanar, M., Sankarasivaraman, K., Ignacimuthu, S. and Sekar. T., 2010. Plants used for non-medicinal purposes by Paliyar tribals in Theni district, Western Ghats of Tamil Nadu, India. *Asian Journal of Biological Environmental Sciences* 1(4): 765 – 771.
- Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2010. Secondary Metabolite Production in Callus Cultures of *Stevia rebaudiana* Bertoni. *Bangladesh Journal of Scientific and Industrial Research* 45(3), 243-248.
- Janaky, R., Sivasankari, K., Sekar, T., 2010. Secondary metabolites investigation and its derivatives on *Cassia occidentalis*. *Journal of Chemical and Pharmacuetical Research* 2(4):371-377.
- Sekar, T., Ayyanar, M., Gopalakrishnan, M., 2010. Medicinal plants and Herbal Drugs. *Current Science* 98 (12): 1558 – 1559. (Meeting Report)
- Udayakumar, M., Dhatchanamoorthy, N., Ajithadoss, K. and Sekar, T., 2010. A floristic study in a perennial lake of Thiruvallur district, south India. *WebmedCentral Ecology* 1(10): WMC001037.
- Udayakumar, M., Ayyanar, M. and Sekar, T., 2010. Medicinal Plants used by local practitioners in Villupuram district of Tamil Nadu, Southern India. *Medicinal Plants, an International Journal* 2(2): 145 - 155.
- Thendral Hepsibha, B., Premalakshmi, V. and Sekar, T., 2010. Genetic diversity in *Azima tetraantha* (Lam.) assessed through RAPD analysis. *Indian Journal of Science and Technology* 3 (2): 170-173.

4. ORGANIZATION OF SEMINAR/SYMPOSIA

- Co-organizer International Conference on “*Challenging and Emerging Dimensions in Medicinal/ Herbal Plants and their Products: A Global Perspective*” during 26th - 28th, 2010 at Chennai Trade Centre, *Chennai*, Tamil Nadu.

INDIVIDUAL FELLOWSHIPS

1. Dr. M. AYYANAR – POST DOCTORAL FELLOW (UGC)

Name of the Fellowship	:	Dr. D. S. Kothari Postdoctoral Fellowship in Science, Medical and Engineering Sciences
Funding Agency	:	University Grants Commission, Govt. of India, New Delhi
Ref. No.	:	Ref.No.F.4-2/2006(BSR)/13-98/2008 (BSR) dated 23-01-2009
Title of the Project	:	<i>In vitro</i> propagation and <i>ex situ</i> conservation of selected endemic and threatened medicinal plants of Western Ghats of Tamil Nadu
Duration	:	Three years (2009-2012), Starts from 02-09-2010
Amount sanctioned	:	Rs. 13,60,462/-
Current Status	:	Second Year Report submitted.

Objectives/ Deliverables:

- Seedlings of four rare and threatened plants, *Cayratia pedata*, *Smilax zeylanica*, *Diotacanthus albiflorus* and *Caesalpinia bonduc* were collected from different parts of Tamil Nadu and were planted and established at the herbal garden of Pachaiyappa's College, Chennai.
- For *Cayratia pedata*, caulogenic response of explants like node, leaf, peduncle, tendril and flower buds were observed on MS medium supplemented with the combination of different hormones.
- In case of *Caesalpinia bonduc*, multiple shoots were obtained without intervening callus phase when the leaf and stem segments were cultured on MS medium supplemented with BAP.
- Somatic embryogenesis from various explants of *Cayratia pedata* and standardization of tissue culture protocol for *Diotacanthus albiflorus* are under progress.
- In addition to *in vitro* propagation, studies on RAPD analysis of various accessions to assess the genetic fidelity of *Cayratia pedata* and *Caesalpinia bonduc* are under progress.

2. Mr. M. UDAYAKUMAR – INSPIRE FELLOW (DST)

Name of the Fellowship	:	INSPIRE Fellowship
Funding Agency	:	Department of Science & Technology, Govt. of India, New Delhi
Ref. No.	:	No. DST/INSPIRE Fellowship/2010 dt. 16 th March 2010; No. DST/INSPIRE Fellowship/2009/ [xxxix] dt. 17 th March 2010.
Title of the Project	:	Ecological Studies on Selected Tropical Dry Evergreen Forests of Southern Coromandel Coast, Peninsular India
Duration	:	Five years (2010-2014), Starts from 01-04-2010
Amount sanctioned	:	Rs. 2,89,200/-
Current Status	:	First Year Report submitted.
Objectives/ Deliverables: <ul style="list-style-type: none"> Identified 24 unexplored sacred groves along the Coromandel coast of Tamil Nadu. A total of 55 species belonged to 50 genera and 26 families were recorded from present study area. Phenologies (vegetative, flowering and fruiting) of trees have been recorded through this study. Plant-pollinator interactions of native trees have been studied through this project. In addition to above-said data, the information on above ground tree biomass, ecological leaf traits, fruit production ability of native forests, forest regeneration status and bio-resource potential of selected forests will be available through this project. 		

Research Activities of Dr.V.Thyagarajan, Associate Professor of Commerce

1. Multimedia University Internal funding on “Evaluating the Productivity and Efficiency of Malaysian Commercial Banks” Project Number : PR/2001/0063. Grant Amount : RM 21,230 (Ringgit Malaysia Twenty one thousand two hundred and thirty only) equivalent to approximately Rs.2.75 lakhs
2. Intensification of Research in Priority Areas (IRPA) by the Ministry of Science and Technology on “Enhancing e-commerce Transactions in Malaysia – Empirical Test of the Modified Technology Acceptance Model. Project Number 05-99-01-0044-EA040 Project Grant Amount RM 61,200 (Ringgit Malaysia Sixty one thousand two hundreds only) Equivalent to approximately Rs.7.5 lakhs
3. University Grants Commission, India, Major Research Project Grant to the College Teachers, On going Project started in Aug.2009, Project Title : An Assessment of Consumer Behavior in an Online Environment, Project Cost : Rs.4.66 Lakhs

1. *LIST of Ph.D.Scholars*

1. *Mr.Amat Tapp Haji Manshor, Multimedia University, Topic : A Study of Performance Appraisal Acceptance and Employees' Performance in Multinational Companies in Malaysia. Multimedia University 2001*
2. *Mr.Nagappan Chettiar, Multimedia University, Topic : A Study of the impact of the information and communication technology on the Experience of Work in Multinational Electrical and Electronics Corporations Multimedia University 2003*
3. *Miss. Noraza Bte Mohd Suki, Consumer Innovation and Adoption of Online Shopping: Malaysian Internet Shoppers perspectives. Multimedia University, 2006*
4. *Mrs.Sushila Devi Rajarathnam, Direct and Indirect Influence of Human Resources Management Practices On Employee Outcomes in Service Based Co-operatives in Malaysia, Multimedia university, 2006*
5. *Mr.T.S.Deenadayalan, University of Madras, A Study on EDI (Electronic Data Interchange) Adoption in India. 2008*
6. *Mrs.V.Shanthi, University of Madras, Intellectual Capital and Its Components, 2010*

7. *Mrs.V.Sumathi, University of Madras, Impact of Personality and Stress Among IT Professionals in India. (Thesis submitted in Feb.2011) Public Defense is due*
8. *Mrs.Maragathavalli, University of Madras, Internet Banking Adoption in India. (Thesis submitted and viva-voce is due-2011)*
9. *Mrs.K.Olive Jeba Jerushal, University of Madrs, Impact of Personality and Li*

2. LIST of M.Phil Scholars

1. *I.Sujatha, Consumer Preferences on Readymade Garments, University of madras,*
2. *Angamuthu, Personal Finance- A Study with references to individual finance., University of Madras*
3. *Alagappan Latha, Controlling Cost Through Target Costing, Multimedia University, Malaysia, 2004*
4. *Miss. Noraza Bte Mohd Suki, A Study of Internet Users Motivations and Concerns: Online Perspectives. 2001*
5. *Rafat Beigapoor Shahrivar, Investigating the Relationship between overall tourist Satisfaction and Destination Atrributes- A survey study of Malaysian Travel and Tourist Industry, Multimedia University, 2006*
6. *P.Venkatraman, A Study on Internet Purchase Decision Process, University of Madras, 2007*
7. *V.Murali, Service Quality Evaluation of ATM's in Commercial Banks, University of Madras 2008*
8. *S.N.Umamahesari, Consumer Attitudes and Adoption of Internet Banking Adoption in India, Bharthidasan University, 2006*
9. *Srinivasan, An Emprical Investigation of Airline Service quality and Passenger Satisfaction, Tamil Nadu Open University, 2007*

3.1.2 How does the institution promote faculty participation in research? (providing seed money, research grants, leave , other facilities)

Faculty participation in research is promoted by the institution. Seed money is sanctioned in form of advances. The facility of research grants, study leave and other facilities are made available to the scholars by sending proposals to UGC. Researchers are given all infrastructure facilities. (private cabins, books, computers, Xerox, printers, internet etc.)

3.1.3.Does the institutional budget have a provision for research and development? If yes, give details.

Since this College is a Government aided one our own resources are very little, it is difficult to make special provisions for research and development. However, as regards the infrastructural facilities are concerned—they are made available to the scholars. We have to fully depend upon the UGC assistance for research and development.

3.1.4 Does the institution promote participation of students in research activities? If yes, give details.

Yes, Our institution promotes participation of students in research activities.

- Our P.G. students are given research projects and are asked to submit as an essential condition for the internal exam.
- Small project works are allotted to our U.G. students and are guided by the teacher.
- Staff Academy programmes, where teachers read out their research papers, students are notified to attend the same—they are encouraged to contribute and healthy discussions and debates are held through questions and answers.
- We also send our students (P.G.) to attend conferences and seminars in other colleges.
- Students are asked to present their papers in the classroom—paper-reading is conducted, question-answer process is followed.
- The Principal asks the teacher researchers to employ and also take participation of their students in their Major /Minor Research works.
- Focus is on newspaper, magazine, journal reading to develop the research tendency in the students.

3.1.5 What are the major research facilities developed on the campus?

The research facilities made available in the college campus are-

- a) UGC-Network Resource Centre (Internet facility)

b) Library Infrastructure (cabins and books)

c) Full freedom is there to the researcher to purchase the needed books with the Principal's consent.

d) Latest Research Journals are made available to the researcher.

3.1.6 Give details of the initiatives taken by the institution for collaborative research (with national/ foreign Universities/ Research/Scientific organisations / Industries / NGOs)

We have no research collaborations.

3.2 Research and Publication Output

3.2.1 Give details of the research guides and research students of the institution (Number of students registered for Ph.D. and M. Phil., fellowship/scholarship, funding agency, Ph.Ds and M.Phils awarded during the last five years, major achievements, etc.,)

M.Phil.

FULL-TIME	M.PHIL.	BOTANY	PMF11BY001	SIVASHANKARI S
FULL-TIME	M.PHIL.	CHEMISTRY	PMF11CY001	VINOTH V
FULL-TIME	M.PHIL.	CHEMISTRY	PMF11CY002	MADHUMATHI S
FULL-TIME	M.PHIL.	CHEMISTRY	PMF11CY003	MAHALAKSHMI B
FULL-TIME	M.PHIL.	CHEMISTRY	PMF11CY004	REVATHI T
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM001	BADRINATH A
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM002	BHARATHI S
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM003	DHIVAKAR D
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM004	PETCHIAPPAN P
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM005	RAMESH S
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM006	VENKATESAN K

FULL-TIME	M.PHIL.	COMMERCE	PMF11CM007	CHITRA S
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM008	DANY CHRISTY C.S.
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM009	GAYATHRI DEVI K
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM010	SANDHIYA V
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM011	SEEMA KARTHIKA E
FULL-TIME	M.PHIL.	COMMERCE	PMF11CM012	VALLI G
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC001	ANURADHA S
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC002	AMMU P
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC003	BAGAVATHI T
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC004	GOMATHI N
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC005	CHITRAVEL N
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC006	GOPINATH R
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC007	JAGADESHAN C
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC008	LASHMI NARAYANAN S
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC009	RAJA D
FULL-TIME	M.PHIL.	ECONOMICS	PMF11EC010	RAJIV GANDHI S
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN001	ARUNKUMAR C
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN002	DHARMA BALAN N
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN003	GURU RAJ D
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN004	RAJESH M
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN005	RAMESH C
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN006	SAKTHIVEL R
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN007	SIVAKUMAR M
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN008	BAARGAVI K

FULL-TIME	M.PHIL.	ENGLISH	PMF11EN009	GOWRI R
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN010	PADMA PRIYA R
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN011	REVATHY S
FULL-TIME	M.PHIL.	ENGLISH	PMF11EN012	USHA G
FULL-TIME	M.PHIL.	HISTORY	PMF11HS001	PARANTHAMAN K
FULL-TIME	M.PHIL.	HISTORY	PMF11HS002	BHARATHI S R
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FULL-TIME	M.PHIL.	HISTORY	PMF11HS007	SASIKUMAR N
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FULL-TIME	M.PHIL.	HISTORY	PMF11HS011	ARICHANDRAN D
FULL-TIME	M.PHIL.	HISTORY	PMF11HS012	CHITHRA V
FULL-TIME	M.PHIL.	HISTORY	PMF11HS013	JANARTHANAN R
FULL-TIME	M.PHIL.	HISTORY	PMF11HS014	KARTHICK N
FULL-TIME	M.PHIL.	HISTORY	PMF11HS015	NETHAJI K
FULL-TIME	M.PHIL.	MATHS	PMF11MT001	ANBARASU P
FULL-TIME	M.PHIL.	MATHS	PMF11MT002	ARUNACHALAM V
FULL-TIME	M.PHIL.	MATHS	PMF11MT003	DHASARADAN R
FULL-TIME	M.PHIL.	MATHS	PMF11MT004	PRAKASAM M
FULL-TIME	M.PHIL.	MATHS	PMF11MT005	KATHIRAVAN S

FULL-TIME	M.PHIL.	MATHS	PMF11MT006	SHASHI KUMAR K
FULL-TIME	M.PHIL.	MATHS	PMF11MT007	SUDHAGAR A
FULL-TIME	M.PHIL.	MATHS	PMF11MT008	THANIKACHALAM A
FULL-TIME	M.PHIL.	MATHS	PMF11MT009	POONGUZHALI S
FULL-TIME	M.PHIL.	MATHS	PMF11MT010	RAMYA B
FULL-TIME	M.PHIL.	MATHS	PMF11MT011	MONICA C
FULL-TIME	M.PHIL.	MATHS	PMF11MT012	BHUVANESWARI S
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH001	ANBUROSE J
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH002	GURUNATHAN M
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH003	PALANISAMY N
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH004	PRAVEEN KUMAR S
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH005	UDAYAKUMAR V
FULL-TIME	M.PHIL.	PHILOSOPHY	PMF11PH006	VIJAYAKUMAR P
FULL-TIME	M.PHIL.	TAMIL	PMF11TM001	MURUGANANTHAM B
FULL-TIME	M.PHIL.	TAMIL	PMF11TM002	SIVA R
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FULL-TIME	M.PHIL.	TAMIL	PMF11TM008	SARAVANAN R
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FULL-TIME	M.PHIL.	TAMIL	PMF11TM011	MURALI A

FULL-TIME	M.PHIL.	TAMIL	PMF11TM012	MAHENDIRAN K
FULL-TIME	M.PHIL.	TAMIL	PMF11TM013	MANIKANDAN S
FULL-TIME	M.PHIL.	TAMIL	PMF11TM014	THAMARAISELVI V
FULL-TIME	M.PHIL.	TAMIL	PMF11TM015	KAVITHA B.D
FULL-TIME	M.PHIL.	TAMIL	PMF11TM016	SUMATHI M
FULL-TIME	M.PHIL.	TAMIL	PMF11TM017	PRIYADARSHINI S
FULL-TIME	M.PHIL.	TAMIL	PMF11TM018	CHENNAMMAL S
FULL-TIME	M.PHIL.	TAMIL	PMF11TM019	MENAKA R
FULL-TIME	M.PHIL.	TAMIL	PMF11TM020	PRASANNA KUMARI D
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY001	IDHAYACHANDIRAN E
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY002	VIDYA J
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY003	RAMARAJAN K
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY004	RAVINDIRAN D
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY005	MUTHUMARI C S
FULL-TIME	M.PHIL.	ZOOLOGY	PMF11ZY006	SATHISHKUMAR S
PART-TIME	M.PHIL.	HISTORY	PMP11HS001	PALANIVEL R
PART-TIME	M.PHIL.	HISTORY	PMP11HS002	SANKAR C
PART-TIME	M.PHIL.	HISTORY	PMP11HS003	INDIRA P
PART-TIME	M.PHIL.	HISTORY	PMP11HS004	VIJAYAKUMAR B
PART-TIME	M.PHIL.	HISTORY	PMP11HS005	MARIMUTHU M
PART-TIME	M.PHIL.	HISTORY	PMP11HS006	PUSHPALINGAM B
PART-TIME	M.PHIL.	TAMIL	PMP11TM001	BALAMURUGAVEL V.N.
PART-TIME	M.PHIL.	TAMIL	PMP11TM002	KUMAR K
PART-TIME	M.PHIL.	TAMIL	PMP11TM003	PARTHIBAN M

PART-TIME	M.PHIL.	TAMIL	PMP11TM004	VARADHARAJAN K
PART-TIME	M.PHIL.	TAMIL	PMP11TM005	GUNA SELVI S
PART-TIME	M.PHIL.	TAMIL	PMP11TM006	KASTHURI K

Ph.D. Candidates

S.No.	Name of the Student	Research Guide	Branch	Year
1	CHANDRASEKAR, L	DR.P.PRAKASAM	TAMIL	2009
2	BABY, A	DR.S.UMA	TAMIL	2009
3	RAMACHANDRAN, C	DR.P.PRAKASAM	TAMIL	2009
4	THIRUNAVUKKARASU, V	DR,R.VENUGOPAL	TAMIL	2009
5	VIMALA, P	DR,R.VENUGOPAL	TAMIL	2009
6	VADIVUDAINAYAKI, S	DR,R.VENUGOPAL	TAMIL	2009
7	HEMAMALINI, G.M,	DR,R.VENUGOPAL	TAMIL	2009
8	PRABHA, G	DR.N.P.RAVIKUMAR	ENGLISH	2009
9	ARUMAINAYAKAM, T	DR.P.MURUGAKOOTHAN	PHYSICS	2009
10	RUSSEL RAJ , K	DR.P.MURUGAKOOTHAN	PHYSICS	2009
11	VIJAYAKUMAR, G	DR.P.MURUGAKOOTHAN	PHYSICS	2009
12	RAMAKUMAR, G.R.	DR.T.J.BHOOPATHY	PHYSICS	2009
13	GURUMOORTHY, T	DR.P.MURUGAKOOTHAN	PHYSICS	2009
14	SUVITHA, A	DR.P.MURUGAKOOTHAN	PHYSICS	2009
15	NALINI, G	DR.N.JAYACHANDRAMANI	CHEMISTRY	2009
16	PRIYA, S	DR.N.JAYACHANDRAMANI	CHEMISTRY	2009
17	SENTHILKUMARAN, J	DR.N.JAYACHANDRAMANI	CHEMISTRY	2009
18	SOWBAGYALAKSHMI, L	DR.R.NANTHINI	CHEMISTRY	2009
19	UDAHYAKUMAR, M	DR.T.SEKAR	BOTANY	2009
20	VISHNUKIRAN,M	DR.S.MURUGESAN	BOTANY	2009
21	KUMARISUBITHA, T	DR.T.SEKAR	BOTANY	2009
22	KOTTEESWARI, M	DR.S.MURUGESAN	BOTANY	2009
23	RAMESH KUMAR, V	DR, K.M. UMARAJAN	BOTANY	2009
24	JAYAPRAKASH, C	Dr.L.Veerakumari	ZOOLOGY	2009
25	SARAVANAPERUMAL, S	D.Venkatarama Raju	COMMERCE	2009
26	SUBBARAYUDU, P	D.Venkatarama Raju	COMMERCE	2009
27	HEMALATHA, S	D.Venkatarama Raju	COMMERCE	2009

28	SIVA, R	DR.C.THIRUVEKADAM	HISTORY	2010
29	SAHAYA FREEDA, A	DR.A.RANJITH KUMAR	HISTORY	2010
30	JAI PRASAD, W.M.	DR.C.THIRUVEKADAM	HISTORY	2010
31	PURUSHOTHAMAN, V	DR.R.KANCHANA,	HISTORY	2010
32	SUNDRAVADIVELU , K.S.	DR.K.BANUMATHY	HISTORY	2010
33	SELVAKUMAR, K	DR.K.BANUMATHY	HISTORY	2010
34	KANNAN, K	DR.K.BANUMATHY	HISTORY	2010
35	HEPHZI, J	DR.M.SIVARAJAN	ECONOMICS	2010
36	MALLIGA, A	DR.M.SIVARAJAN	ECONOMICS	2010
37	PREETHI NAIR, V	DR.M.SIVARAJAN	ECONOMICS	2010
38	XAVIER JOHN, A	DR.V.M.M.R. ANDAVAR	TAMIL	2010
39	PADMINI, R	DR.S.UMA	TAMIL	2010
40	RAJAPANDI, K	DR.S.UMA	TAMIL	2010
41	SANTHI, S	DR.R.NANTHINI	CHEMISTRY	2010
42	PADMA PRIYA, C	DR.S.SARAVANAN	BOTANY	2010
43	GOPINATH, B	DR.T.SEKAR	BOTANY	2010
44	BABU, K	DR, K.M. UMARAJAN	BOTANY	2010
45	BHUVANESWARI, S	DR.S.MURUGESAN	BOTANY	2010
46	GANDHI, K	DR.S.SARAVANAN	BOTANY	2010
47	REGINA, V	DR, K.M. UMARAJAN	BOTANY	2010
48	FLORIDA, A	DR.T.SEKAR	BOTANY	2010
49	JOHN ROSE, G	DR.S. RAJAN	ZOOLOGY	2010
50	LALHMINGCHHIANMAWII	DR.L.VEERAKUMARI	ZOOLOGY	2010
51	JAYA, K	DR.N.SHETTU	ZOOLOGY	2010
52	HENITAGEO, N	DR.S. RAJAN	ZOOLOGY	2010
53	ASHWINI, R	DR.L.VEERAKUMARI	ZOOLOGY	2010
54	DEVENDHIERAN, K	Dr.K.Banumathy	History	2011
55	PRABHAKARAN, K	Dr.K.Banumathy	History	2011
56	SARAVANAN, S	Dr.K.Banumathy	History	2011
57	UTHIRAKUMAR, D	Dr.K.Banumathy	History	2011
58	KAVIDASS, G	Dr.A.Ranjith	History	2011
59	SUBHA, S	Dr.M.Parthiban	Philosophy	2011
60	PREMASUNDARI, G	Dr.J.Thulasi	English	2011
61	KAVITHA, A	Dr.J.Thulasi	English	2011
62	ANDAL, C	Dr.P.Murugakoothan	Physics	2011
63	NALANI JAYANTHI, S	Dr.P.Murugakoothan	Physics	2011
64	SAIRA KHATHEEJA	Dr.A.R.Prabhakaran	Physics	2011
65	SUBASHINI, D	Dr.A.R.Prabhakaran	Physics	2011

66	PRABHAHARAN, M	Dr.A.R.Prabhakaran	Physics	2011
67	JAMAL SAYDEEDHA TABASWAR, S	Dr.R.Nanthini	Chemistry	2011
68	GOWSIGA, J	Dr.R.Nanthini	Chemistry	2011
69	PUNITHA, N	Dr.N.Shettu	Zoology	2011

3.2.2 Give details of the following:

a) Departments recognized as research centres

Nil

b) Faculty recognized as research guides-

S.No.	NAME	DESIG	DEPARTMENT
1	Dr.P.Kandaswamy	Principal	HISTORY
2	Dr.P.Anuradha	Associate Professor & HOD	TAMIL
3	Mrs.M.S.Punithavathi	Associate Professor	TAMIL
4	Dr.V.M.M.R.Andavar	Associate Professor	TAMIL
5	Dr.N.Palanisamy	Assistant Professor	TAMIL
6	Miss.S.Vijayalakshmi	Assistant Professor	TAMIL
7	Dr.S.Uma	Assistant Professor	TAMIL
8	Dr.(Selvi)J.Thulasi	Associate Professor & HOD	ENGLISH
9	Dr.(Mrs.)J.Alli	Associate Professor	ENGLISH
10	Dr.R.Gomathi	Associate Professor	ENGLISH
11	Mrs.G.Vijayarani	Associate Professor	ENGLISH
12	Dr.C.Dharuman	Associate Professor & HOD	MATHS
13	Dr.P.Gajivaradhan	Associate Professor	MATHS
14	Mr.M.Perumal	Associate Professor	MATHS
15	Dr.K.Thangavelu	Associate Professor	MATHS
16	Mr.M.K.Pandurangan	Assistant Professor	MATHS
17	Mr.R.Elaiyaperumal	Assistant Professor	MATHS
18	Mrs.K.Premakumari	Associate Professor	MATHS

19	Mrs.S.Padmavathi	Assistant Professor	MATHS
20	Dr.M.Parthiban	Associate Professor & HOD	PHILOSOPHY
21	Dr.K.Sambathkumar	Associate Professor	PHILOSOPHY
22	Dr.V.Parthiban	Associate Professor	PHILOSOPHY
23	Mrs.M.Vasugi	Assistant Professor	PHILOSOPHY
24	Dr.(Mrs.)K.Banumathy	Associate Professor	HISTORY
25	Dr.(Mrs.)K.Bharathi	Associate Professor	HISTORY
26	Dr.(Mrs.)S.P.Mekalai	Associate Professor	HISTORY
27	Dr.(Mrs.)A.Ramani Devi	Associate Professor	HISTORY
28	Mr.S.Krishnaswamy	Associate Professor	HISTORY
29	Mrs.T.Poonguzhali	Associate Professor	HISTORY
30	Mrs.R.Thangamani	Assistant Professor	HISTORY
31	Dr.(Mrs.)R.Kanchana	Associate Professor	HISTORY
32	Dr.A.Ranjith	Assistant Professor	HISTORY
33	Dr.S.Soundararaj	Associate Professor & HOD	ECONOMICS
34	Dr.K.Arivudainambi	Associate Professor	ECONOMICS
35	Mr.T.K.S.Villalan	Associate Professor	ECONOMICS
36	Mrs.S.Sundaravadivu	Associate Professor	ECONOMICS
37	Dr.K.Chandrasekar	Associate Professor	ECONOMICS
38	Dr.M.Sivarajan	Assistant Professor	ECONOMICS
39	Dr.Baby Gulnaz	Associate Professor	ECONOMICS
40	Dr.G.Karunamoorthy	Assistant Professor	ECONOMICS
41	Dr.S.Gunasekaran	Associate Professor & HOD	PHYSICS
42	Dr.P.Arulmozhichelvan	Associate Professor	PHYSICS
43	Dr.A.R.Prabakaran	Associate Professor	PHYSICS
44	Dr.P.Murugakoothan	Assistant Professor	PHYSICS
45	Dr.Mrs.E.Sailatha	Assistant Professor	PHYSICS
46	Dr.D.Baskaran	Associate Professor & HOD	CHEMISTRY
47	Dr.A.Loganayagi	Associate Professor	CHEMISTRY

48	Dr.S.Damodarkumar	Associate Professor	CHEMISTRY
49	Mrs.B.Ponmalar	Associate Professor	CHEMISTRY
50	Dr.A.Sampath	Associate Professor	CHEMISTRY
51	Dr.Mahalakshmi Susarla	Associate Professor	CHEMISTRY
52	Dr.(Mrs.)R.Nanthini	Associate Professor	CHEMISTRY
53	Dr.(Mrs.)R.Uma	Associate Professor	CHEMISTRY
54	Mr.R.Lakshmanan	Associate Professor	CHEMISTRY
55	Dr.P.Venkatesh	Associate Professor	CHEMISTRY
56	Mr.K.Vijayaraghavan	Assistant Professor	CHEMISTRY
57	Dr.G.Kathiresan	Associate Professor & HOD	BOTANY
58	Dr.K.M.Umarajan	Associate Professor	BOTANY
59	Dr.(Mrs).V.M.Akila	Associate Professor	BOTANY
60	Dr.(Mrs.)J.Kamaleswari	Associate Professor	BOTANY
61	Dr.T.Sekar	Assistant Professor	BOTANY
62	Dr.S.Murugesan	Assistant Professor	BOTANY
63	Dr.S.Saravanan	Assistant Professor	BOTANY
64	Dr.L.Veerakumari	Associate Professor & HOD	ZOOLOGY
65	Dr.S.Rajan	Associate Professor	ZOOLOGY
66	Dr.N.Shettu	Assistant Professor	ZOOLOGY
67	Dr.M.Kesavan	Associate Professor & HOD	COMMERCE
68	Dr.V.Thyagarajan	Associate Professor	COMMERCE
69	Mr.S.Umapathy	Associate Professor	COMMERCE
70	Mr.S.Sampathraj	Associate Professor	COMMERCE
71	Dr.M.Dhanusu	Associate Professor	COMMERCE
72	Dr.Venkatarama Raju	Associate Professor	COMMERCE
73	Dr.R.Srijyanthi	Associate Professor	COMMERCE
74	Dr.S.Kumaresan	Associate Professor	COMMERCE
75	Dr.C.Vatchala	Assistant Professor	COMMERCE
76	Dr.Rajarajen Vanjeko	Associate Professor	COMMERCE

77	Mrs.R.Kasthuri	Associate Professor	COMMERCE
78	Mrs.R.Hemalatha	Associate Professor	COMMERCE
79	Dr.Mrs.V.Gnanakumari	HOD	CORPORATE
80	Mr.M.Kolangiyappan	Associate Professor	CORPORATE
81	Dr.K.S.Sridhar	Phy.Dr.SS	PHY.EDN.

c) Priority areas for research-

Literary, Humanities, Science and Technology and Commerce

d) Ongoing Faculty Research Projects (minor and major projects ,funding from the Government, UGC, DST, CSIR, AICTE, Industry, NGO or International agencies)

Dr.T.Sekar, Assistant Professor of Botany

2006-2007

1. Title of the Project	:	Propagation of Bamboo (UGC-Minor)
Duration	:	18 months (2005-2007), Starts from 01-02-2005.
Ref. No.	:	F. MRP. 659/05 (UGC-SERO) Link No. 1659
Funding Agency	:	UGC – SERO, Hyderabad
Amount sanctioned	:	Rs. 95,000/-
Staff appointed	:	Nil
Objectives/ Deliverables: The nodal explants of Bamboo were collected and inoculated in MS medium supplemented with NAA and 2,4-D. The initial swellings of the nodal segments were observed in 10-12 days of culture. Two types of calluses were observed. The induction of shoots from the nodular and compact callus by gradually decreasing the concentration of 2,4-D with low concentration of NAA. The regenerated shoots were showed root proliferation in the same medium. The micropropagated seedlings were maintained in the college campus for further studies.		

2. Title of the Project	:	Micropropagation of Selected Medicinal Plants in Tamil Nadu
Duration	:	Three Years (2005-2008), Starts from 17-02-2006
Ref. No.	:	F.No. Z.18017/187/Pr.Go/TN-05 /NMBP/ dt. 12.12.05
Funding Agency	:	National Medicinal Plants Board, Department of AYUSH,

		Ministry of Health and Family Welfare, Govt. of India, New Delhi
Amount sanctioned	:	Rs.9,00,000/-
Staff appointed	:	Nil
Objectives/ Deliverables: An efficient plant regeneration protocol was developed for important medicinal plants such as <i>Ruta graveolens</i> , <i>Decalepis hamiltonii</i> and <i>Mappia foetida</i> . The micropropagated seedlings were maintained in the college campus for further studies and supply to the needy farmers.		

2009-2010

1. Title of the Project	:	<i>In vitro</i> propagation of <i>Phyllanthus debilis</i> (UGC-Minor)
Duration	:	18 months (2009-2010), Starts from 01-02-2009
Ref. No.	:	F. MRP – 2686/09(MRP/UGC-SERO) Link No. 2686
Funding Agency	:	UGC - SERO, Hyderabad
Amount sanctioned	:	Rs.1,25,000/-
Staff appointed	:	Nil
Objectives/ Deliverables: <i>Phyllanthus debilis</i> is widely distributed herb in southern Western Ghats of Tamil Nadu. In vitro propagation of the plant has not yet been reported so far. The healthy plants of <i>P. debilis</i> were collected from Shenbagadevi falls in Western Ghats of Tamil Nadu. The nodal explants were inoculated on MS medium supplemented with individual concentration of BA, KN, NAA and 2,4-D. In addition, the wild accessions of <i>P. debilis</i> were screened for antioxidant and free radical scavenging activity. The micropropagated seedlings were maintained in the college campus.		

2. Title of the Project	:	Molecular Analysis and Mass Propagation of Globally Vulnerable <i>Salacia</i> Species
Duration	:	Three years (2009-2012), Starts from 16-02-2009
Ref. No.	:	F. No. Z. 18017/187/Pr. GO/TN-04/ 2008– 09
Funding Agency	:	National Medicinal Plants Board, New Delhi
Amount sanctioned	:	Rs.17,00,000/-
Staff appointed	:	Nil

Objectives/ Deliverables:

- Collection and identification of healthy plants of *Salacia oblonga* and *Salacia reticulata* from different region of South India.
- Extraction and screening of secondary metabolites from wild accessions using HPLC/GC –MS analysis.
- Genetic fidelity tests (RAPD analysis): Determination of plant genomic variability between different wild accessions of *Salacia oblonga* and *Salacia reticulata*.
- Mass multiplication and distribution of elite plants of *Salacia oblonga* and *Salacia reticulata* at free of cost for cultivation.

2010-2011

1. Title of the Project	:	Molecular characterization, <i>in vitro</i> propagation and <i>ex situ</i> conservation of <i>Strychnos minor</i> (Loganiaceae) an Endemic medicinal plant
Duration	:	Three years (2010-2013), Starts from 02-02-2010
Ref.No.	:	F. No 38-156/2009 (SR) dt.21.12.2009
Funding Agency	:	University Grants Commission, Govt. of India, New Delhi
Amount sanctioned	:	Rs. 7,80,000/-
Staff appointed	:	Mr. T. Arumugam (Project Fellow)

Objectives/ Deliverables:

- The output will hopefully attract the attention of forest development corporations and also the researchers to establish clonal propagation of rare, endangered and endemic species for sustainable utilization.
- This efficient regeneration protocol regenerated for the plants may be utilized by the pharmaceutical companies for the mass production of raw materials for the preparation of drugs.
- Large number of plants can be multiplied and supplied to medicinal plant gardens and that will decrease their degradation from the natural habitats.
- The RAPD analysis of *in vitro* grown plant of *Strychnos minor* will help to check the genetic integrity of the micropropagated plants.

2. Title of the Project	:	<i>In vitro</i> propagation and Establishment of <i>Rosa bourboniana</i> in the identified Rural Areas by organic cultivation
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Duration	:	Three years (2010-2013), Starts from 10-06-2010
Funding Agency	:	Department of Science and Technology, Govt. of India, New Delhi
Ref. No.	:	File No.SSD/SCSP/002/2009 dated 10 th June 2010
Amount sanctioned	:	Rs. 11,97,000/-
Staff appointed	:	Mr. P. Rajesh Babu (Project Scientist)

Objectives/ Deliverables:

- A standardized protocol for the *in vitro* propagation of *Rosa bourboniana* was designed in the project in a cost effective and time consuming manner.
- For vermicomposting, in the initial stage 5 pits in the Aathupakkam village was constructed. Cow dung & vegetable waste was used as composting material. First set of product was harvested & packed in carry bags.
- The 3 villages namely Natham, Aathupakkam and Rettambedu in the Gummidipoondi panchayat union of Thiruvallur district has been adopted to do the vermitechnology in the rose cultivation.

3. Title of the Project	:	Survey of Ethnoveterinary Medicinal (EVM) plants in southern Western Ghats of Tamil Nadu
Duration	:	Three years (2010-2013), Starts from 02-09-2010
Ref. No.	:	No. 59/12/2009/ BMS/ TRM dated 03.08.2010
Funding Agency	:	Indian Council of Medical Research, Govt. of India, New Delhi
Amount sanctioned	:	Rs. 5,21,000/-
Staff appointed	:	Mr. V. Karthik

Objectives:

- To locate and interact with the traditional healers and document their knowledge on ethnoveterinary medicinal plants usage, types of animals and diseases treated etc in southern Western Ghats of Tamil Nadu
- To collect sample specimens of medicinal plants for correct identity
- To assess the folk veterinary knowledge and practices for their efficacy based on the published literatures
- To disseminate and create awareness among other tribal and rural people regarding the use and importance of traditional ethnoveterinary healing practices.
- To develop database of ethnoveterinary medicinal plants

4. Title of the Project	:	Scientific validation of ethnoveterinary medicine practiced by indigenous people in northern Eastern
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		Ghats of Tamil Nadu: collection, documentation and promotion of ethnoveterinary practices
Duration	:	Three years (2010-2013), Starts from 01-09-2010
Ref. No.	:	F. No.Z.15017/ 10/2010-LHT dated 09.06.2010
Funding Agency	:	Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India, New Delhi
Amount sanctioned	:	Rs.24,00,000/-
Staff appointed	:	Mr. A. Selvaraju (Senior Research Fellow) Mr. M. Suresh (Junior Research Fellow)

Objectives:

- To prioritize and document the local ethnoveterinary practices among the indigenous people in northern Eastern Ghats of Tamil Nadu.
- Ethnoveterinary medicines practiced by local communities in the study area will be assessed with the previously published literature for further biological studies.
- To screen the commonly used ethnoveterinary medicinal plants for phytochemical analysis with various solvent extracts.
- Preliminary screening of Ethnoveterinary medicinal plants against ectoparasites of ruminants
- To identify the purified molecules from active fractions of EVM plants using TLC and HPLC.
- Cultivation and distribution of scientifically validated EVM plants to the indigenous people to enhance their livelihood.
- To disseminate the use and importance of ethnoveterinary healing practices through various extension programmes among other tribal and rural people to improve their income by practicing EVM practices.

Ongoing Student Research Projects (title, duration, funding agency, total funding received for the project).

INDIVIDUAL FELLOWSHIPS

Dr. M. AYYANAR – POST DOCTORAL FELLOW (UGC)

Name of the Fellowship	:	Dr. D. S. Kothari Postdoctoral Fellowship in Science, Medical and Engineering Sciences
Funding Agency	:	University Grants Commission, Govt. of India, New

		Delhi
Ref. No.		Ref.No.F.4-2/2006(BSR)/13-98/2008 (BSR) dated 23-01-2009
Title of the Project	:	<i>In vitro</i> propagation and <i>ex situ</i> conservation of selected endemic and threatened medicinal plants of Western Ghats of Tamil Nadu
Duration	:	Three years (2009-2012), Starts from 02-09-2010
Amount sanctioned	:	Rs. 13,60,462/-
Current Status	:	Second Year Report submitted.

Objectives/ Deliverables:

- Seedlings of four rare and threatened plants, *Cayratia pedata*, *Smilax zeylanica*, *Diotacanthus albiflorus* and *Caesalpinia bonduc* were collected from different parts of Tamil Nadu and were planted and established at the herbal garden of Pachaiyappa's College, Chennai.
- For *Cayratia pedata*, caulogenic response of explants like node, leaf, peduncle, tendril and flower buds were observed on MS medium supplemented with the combination of different hormones.
- In case of *Caesalpinia bonduc*, multiple shoots were obtained without intervening callus phase when the leaf and stem segments were cultured on MS medium supplemented with BAP.
- Somatic embryogenesis from various explants of *Cayratia pedata* and standardization of tissue culture protocol for *Diotacanthus albiflorus* are under progress.
- In addition to *in vitro* propagation, studies on RAPD analysis of various accessions to assess the genetic fidelity of *Cayratia pedata* and *Caesalpinia bonduc* are under progress.

Mr. M. UDAYAKUMAR – INSPIRE FELLOW (DST)

Name of the Fellowship	:	INSPIRE Fellowship
Funding Agency	:	Department of Science & Technology, Govt. of India, New Delhi
Ref. No.		No. DST/INSPIRE Fellowship/2010 dt. 16 th March 2010; No. DST/INSPIRE Fellowship/2009/ [xxxix] dt. 17 th

		March 2010.
Title of the Project	:	Ecological Studies on Selected Tropical Dry Evergreen Forests of Southern Coromandel Coast, Peninsular India
Duration	:	Five years (2010-2014), Starts from 01-04-2010
Amount sanctioned	:	Rs. 2,89,200/-
Current Status	:	First Year Report submitted.

Objectives/ Deliverables:

- Identified 24 unexplored sacred groves along the Coromandel coast of Tamil Nadu.
- A total of 55 species belonged to 50 genera and 26 families were recorded from present study area.
- Phenologies (vegetative, flowering and fruiting) of trees have been recorded through this study.
- Plant-pollinator interactions of native trees have been studied through this project.
- In addition to above-said data, the information on above ground tree biomass, ecological leaf traits, fruit production ability of native forests, forest regeneration status and bio-resource potential of selected forests will be available through this project.

3.2.3 What are the major achievements of the research activities of the institution (findings contributed to subject knowledge, to the Industry needs, community development, patents etc.)?

As stated above

3.2.4 Are there research papers published in refereed journals by the faculty? If yes, give details for the last five years including citation index and impact factor.

Research papers published in refereed journals during the last five years-

PUBLICATIONS – INTERNATIONAL – By Dr.S.Gunasekaran, Associate Professor and HOD of Physics

1. Infrared, optical absorption and EPR spectroscopic studies on natural gypsum, *Vibrational Spectroscopy*, 50, 226-230, 2009
2. Crystal Growth, thermal, optical studies of Urea Thiourea Magnesium Sulphate(UTMS), *International Journal of Chemical and Technological Research*,1(3), 649-653, 2009
3. Theoretical and experimental studies of Vibrational spectra and thermal analysis of 2 – nitro aniline and its cation, *Journal of Molecular Modeling*, 16, 87-94, 2010
4. Investigation of silicate mineral sanidine by Vibrational and NMR spectroscopic methods, *Spectrochimica Acta Part A*, 74(2), 404-409, 2009
5. Spectroscopic characterization of natural chrysotile, *Vibrational Spectroscopy*, 52, 122-127, 2010.
6. Spectroscopic characterization of Indian Quartz Standard Sand, *Journal of Applied Spectroscopy*, 77(1), 95-103, 2010
7. Vibrational assignments and electronic structure calculations for 6 – thioguanine, *Journal of Raman Spectroscopy*,40, 1675-1681, 2009
8. Vibrational spectroscopy investigation using ab initio and density functional theory on 3'- chloropropiophenone and 3' nitropropiophenone, *Spectrochimica Acta part A* , 75,567-573, 2010
9. Growth, FT-IR and DFT study of L-Phenylalanine, *Archives of Applied Science Research*, 2 (2), 223-232, 2010
10. FT-IR, FT-Raman and UV-Vis spectra and quantum chemical investigation of carvedilol, *Molecular Simulation*, 36(4), 283 - 290, 2010
11. Experimental and Semi-empirical computations of the vibrational spectra of Methionine, Homocysteine and Cysteine, *Archives of Physics Research*, 1 (1) 12-26, 2010
12. Density functional theory, restricted Hartree-Fock simulations and vibrational spectroscopic studies of nicorandil, *Molecular Simulation*, 36 (6) 425 - 433, 2010

13. Non Isothermal decomposition of Indian limestone of marine origin, *J Therm Anal Calorim*, 97, 917-921, 2009
14. Vibrational spectroscopy investigation using ab initio and density functional theory on 7-chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1 – dioxide, *J. Raman Spectroscopy*, 40, 2010, 639-644
15. Vibrational spectroscopy investigation using ab initio and density functional theory on p - Anisaldehyde, *Spectrochimica Acta part A*, 70, 550-556, 2008
16. Spectroscopic study of phase transition in natural calcite mineral, *Spectrochimica Acta part A*, 69, 1246-1251, 2008
17. Optical absorption and EPR studies on some natural carbonate minerals, *Spectrochim Acta A*. 69, 383-390, 2008
18. Experimental and theoretical investigations of spectroscopic properties of N-acetyl-5-methoxy tryptamine, *Canadian Journal of Analytical Science and Spectroscopy*, 53(4), 2008
19. Vibration spectral assignments of paraldehyde by ab initio and density functional methods, *Journal of Molecular Modeling*, 14, 375-383, 2008
20. Density functional theory study of Vibrational spectra, and assignment of fundamental modes of dacarbazine, *Journal of Chemical .Science.*, 120(3), 315 – 324, 2008
21. Structural Analysis, optical absorption and EPR spectroscopic studies on chrysotile, *Applied Clay Science*, 42, 175-179, 2008
22. Vibrational spectroscopy investigation using ab initio and density functional theory on flucytosine, *Journal of Raman Spectroscopy*, 38, 1523 – 1531, 2007
23. Spectroscopic studies of phase transition in natural dolomite minerals, *Journal of Raman Spectroscopy*, 38, 846-852, 2007
24. FTIR Spectra and mechanical strength analysis of some selected rubber derivatives, *Spectrochimica Acta Part A*, 68, 323-330, 2007
25. Spectroscopic characterization of natural calcite minerals, *Spectrochimica Acta Part A*, 8, 656-664, 2007
26. Raman and infrared spectra of carbonates of calcite structure; *Journal of Raman Spectroscopy*, 27, 892-899, 2006
27. Vibrational spectral and Normal Co-ordinate Analysis of diazepam, phenytoin and phenobarbitone, *Spectrochimica Acta, Part A* 65, 1041 – 1052, 2006
28. Growth and characterization of cadmium magnesium tetra thiocyanate crystals; *Crystal Research Technology*, 41(2), 130-137, 2006
29. Vibrational Spectral investigation on Xanthine and its derivatives, Caffeine and theobromine, *Spectrochimica Acta part A*, 61, 117- 128, 2005
30. Analysis of Synovial fluid based upon native fluorescence spectroscopy, *Indian Journal of Physics*, 79, 207- 212, 2005,
31. Growth and characterization of potassium dihydrogen phosphate (KDP) crystal doped with amino acids; *Indian Journal of Physics* 78(7), 553-561, 2004
32. Spectroscopic And Statistical Analysis On Cancerous Human Breast Tissues, *International Journal of Chemistry Research*, 1(1), 9-17, 2010
33. FTIR Spectroscopic Study On Benign And Cancerous Human Breast Tissues - A Run Chart Analysis, *International Journal of Pharmaceutical Sciences Review and Research*, 2(2), 73-77, 2010

34. Qualitative and Quantitative Analysis on Some Cardiovascular Drugs, *Asian Journal of Chemistry*, 22(8), 5824-5834, 2010
35. Analysis of Plasma Homocysteine Levels Among Patients with Chronic Renal Failure-A Spectroscopic Approach, *Asian Journal of Chemistry*, 22(7), 5107-5112, 2010
36. Qualitative and Quantitative Analysis of Antipsychotic Drugs-A Spectroscopic Study, *Asian Journal of Chemistry*, 22(8), 5871-5882, 2010
37. FTIR Spectroscopic Analysis of Normal and Cancerous Human Breast Tissues between 450 cm^{-1} and 1100 cm^{-1} using Trend Analysis, *International Journal of ChemTech Research*, 2(3), 865-870, 2010
38. Estimation of Paclitaxel drugs by HPLC method, *Der Pharma Chemica*, 2(2), 109-115, 2010
39. Application of RP-HPLC and UV-Visible Spectroscopy for the Estimation of Atenolol and Verapamil in Tablets Before and After the Expiry Period, *International Journal of Chemical and Technological Research*, 2(2), 2010, 1426-1433, 2010
40. Experimental and Semi-empirical computations of the vibrational spectra of Methionine, Homocysteine and Cysteine, *Archives of Physics Research*, 1(1), 12-26, 2010
41. Spectral and statistical analysis of cancerous human breast tissues, *Asian Journal of Experimental Biological Sciences*, 19(3), 565-574, 2010
42. Spectroscopical Vibrational Band Assignment and Qualitative Analysis Of Biomedical Compounds With Cardiovascular Activity, *International Journal of Chemical and Technological Research*, 2(1), 379-388, 2010
43. Analysis of serum immunoglobulins using Fourier transform infrared spectral measurements, *Biology and Medicine*, 2 (3): 42-48, 2010
44. Auto-Fluorescence Spectroscopic Analysis of Carbon Tetrachloride Induced Rat Tissues Treated by Pentoxifylline, *Life Sciences and Medicine Research*, Volume 2010: LSMR-11 , 1-10, 2010
45. Plasma Homocysteine Levels Among Epileptic Patients Normalized by Vitamin Supplementation-A Spectral and Clinical Follow up, *Asian Journal of Chemistry*, 22(7), 5101-5106, 2010
46. Estimation of Pyrazinamide, Isoniazid and Rifampicin in Pharmaceutical formulations by High Performance Liquid Chromatography method, *Asian Journal of Chemistry*, 21, 3561-3566, 2009
47. Structural investigation on Curcumin, *Asian Journal of Chemistry*, 20, 2903-2913, 2008
48. Qualitative and Quantitative Analysis on Fibrates - A spectroscopic study, *Asian Journal of Chemistry*, 20, 4249-4256, 2008
49. Charge density and solvation studies of benzoxazole and its derivatives -2-phenyl benzoxazole and 4-amino -2-phenyl benzoxazole, *Asian Journal of Chemistry*, 20, 1055-1062, , 2008
50. Analysis on atherogenic index in Type 1 and Type 2 diabetic blood sera - spectroscopic and statistical implications, *The Asian Journal of diabetology*, 9(2), 9 – 16, 2007
51. Study of lipid disorders in women blood samples - A spectroscopic approach, *Asian Journal of Clinical Cardiology*, 10(4), 40-53, 2007

52. Efficacy of Statins on Hyperlipidemic patients - Spectra and clinical implications, Asian Journal of Clinical Cardiology, 10(4), 19-27, 2007
53. Pharmacokinetic Studies on Diazepam using UV-Visible Spectroscopy; Asian Journal of Chemistry, 19(1), 472-480, 2007
54. Solvation analysis of 1,6-dichlorohexane and 1-chloro-6-iodohexane, Journal of Molecular Liquids, 112, 157, 2004
55. Fourier transform infrared and Fourier transform Raman spectra and normal coordinate analysis of benzocaine, Indian Journal of Physics, 79 (5), 509 – 513, 2005
56. Vibrational spectra and normal coordinate analysis of isoniazid, Indian Journal of Physics, 79, 171, 2005
57. Thermodynamic functions of 2 - chloro heptane from its vibrational frequencies, Indian J. Physics, 79, 201-205, 2005
58. Vibrational spectra and normal coordinate analysis of fluorouracil, Indian J. Physics 78, (10), 1141 - 1148, 2004
59. Spectroscopic Investigation and vibrational analysis of paraldehyde by FTIR and Laser Raman techniques, Indian J. Physics, 78, (6), 485- 496, 2004
60. Spectroscopic Analysis on the structure of poly methyl methacrylate, Indian J. Physics, 77B, 319-322, 2003
61. Comparison of therapeutic efficiency of metformin and glibenclamide as a single or in combination by Fourier Transform Infrared Spectrometry, Int. J Chem Science, 6(2), 761-772, 2008
62. Vibrational assignments and electronic structure calculations for Chlorambucil, Asian Journal of Chemistry, 20, 6149-6162, 2008
63. FTIR and UV-Visible spectral studies on normal and jaundice blood samples, Asian Journal of Chemistry, 20, 5695 – 5703, 2008
64. FTIR and UV-Visible Spectrophotometric Approach to Discriminate Leukemic Sera, Asian Journal of Chemistry, 20, 2521-2528, 2008
65. Spectral measurement and Quantitative analysis of Ceftriaxone and Cefotaxime Asian Journal of Chemistry, 20, 1343 – 1356, 2008
66. Analysis on Hyperlipidemic patient's Blood Samples - spectral and statistical implications, Asian Journal of Chemistry, 20, 14-21, 2008
67. UV-Visible Spectrometric Approach and Absorption Model for the Discrimination of Diseased Blood, Asian Journal of Chemistry, 20, 48-55, 2008
68. Efficacy of simvastatin on chronic renal failure patients - A spectroscopic approach, Asian J. Chemistry 20, 1-11, 2008
69. Analysis of renal failure blood sera - A spectroscopic approach, Asian J. of microbial Biotech. Env. Sci. 9(2), 71-76, 2007
70. Analysis on smoker's blood sample: A spectroscopic approach, Indian J. clinical practice, Vol. 18, No. 3, 22-32, 2007
71. Synthesis and characterization of Random co polyesters of Aromatic Diols, Asian J. Chemistry, Vol. 19, No. 4, 3345 – 3348, 2007
72. Synthesis and thermal studies on co polyesters and succinyl chloride, Asian J. Chemistry, Vol. 19, No. 4, 3268 – 3270, 2007
73. UV visible spectroscopic investigation on hydrolysis of starch and starch-drug interaction Asian Journal of Chemistry, Vol. 19 (5), 3363-3374, 2007

74. Vibrational spectra and normal co-ordinate analysis of adrenaline and dopamine, Asian Journal of Chemistry, 45, 884-891, 2007
75. Vibrational Spectra and normal coordinate analysis of p-Anisaldehyde; Asian Journal of Chemistry, Vol.19, No.1, 465-471, 2007
76. FTIR, FT Raman and UV-Visible spectral measurements and analysis on Atorvastatin Calcium, Asian J. Chemistry, .19(1), 335-346, 2007
77. Qualitative analysis of some antidiabetic drugs by spectroscopic measurements, Asian J. Chemistry 19(1) 315-327, 2007
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29. **Veerakumari, L.**, and Jamunarani, K., 2007. *In vitro* effect of *Punica granatum* on the acetylcholinesterase activity of *Cotylophoron cotylophorum* (Fischöder, 1901). Presented at National Symposium on "Bioresources in the development of Medicine and 28th Annual conference of Indian Association of Biomedical scientists", NFMCC, Department of Microbiology, Bharathidasan University, Trichirapalli, from Sep 20-22. **(Received First prize)**
30. **Veerakumari, L.**, Sivachandran, R., 2007. *In vitro* effect of *Punica granatum* on the acetylcholinesterase activity of *Cotylophoron cotylophorum* (Fischöder, 1901). Presented at National Symposium on "Bioresources in the development of Medicine and 28th Annual conference of Indian Association of Biomedical scientists", NFMCC, Department of Microbiology, Bharathidasan University, Trichirapalli, from Sep 20-22.
31. G. Raja and **L. Veerakumari**, 2008. Comparative studies on the effects of vermicomposts produced from organic wastes and chemical fertilizer on the growth and yield of medicinal plant, *Withania somnifera* (L) Dunal. Presented at National seminar on Emerging Biomedical sciences and potential applications. Organised by PG & Research Department of Zoology, Holy Cross College, Tiruchirappalli, from Jan. 7th & 8th.

32. Gunasekaran, M. and **Veerakumari, L.** 2008. Data analysis on acetylcholinesterase of parasites, ruminants and *Homo sapiens*. Presented at National seminar on Emerging Biomedical sciences and potential applications. Organised by PG & Research Department of Zoology, Holy Cross College, Tiruchirappalli, from Jan. 7th & 8th .
33. Priya,P. and **Veerakumari, L.** 2008. Effect of *Cassia fistula* on *Cotylophoron cotylophorum*- a structural analysis. Presented at Regional Symposium on Current trends in Biosciences and Biotechnology, Organised by the Department of Advanced Zoology and Biotechnology, Government College for men (Autonomous), Chennai, on 1st Feb. 2008.
34. Priya,P. and **Veerakumari, L.** 2008. *In vitro* effect of *Cassia fistula* on carbohydrate metabolism of *Cotylophoron cotylophorum* (Fischöeder, 1901), (Digenea: Paramphistomidae). Accepted for presentation at National Conference on current trends in medicinal plants research and herbal technology. Organised by PG & Research Department of Botany, Pachaiyappa's College, Chennai from, March 7th & 8th .
35. Raja, G. and **L. Veerakumari**, 2008. Effect of vermicomposts produced from cowdung, leafash and poultry feather on the growth and yield of *Withania somnifera*. Accepted for presentation at National Conference on current trends in medicinal plants research and herbal technology. Organised by PG & Research Department of Botany, Pachaiyappa's College, Chennai, from, March 7th & 8th.
36. Mahalakshmi, K. and **L. Veerakumari**, 2008. Effect of *Andrographis paniculata* (Nees) leaf extract on membrane-bound ATPases and inorganic cation transport in acetoaminophen induced alterations in rat. Accepted for presentation at National Conference on current trends in medicinal plants research and herbal technology. Organised by PG & Research Department of Botany, Pachaiyappa's College, Chennai from, March 7th & 8th .
37. **Veerakumari, L.**, Raja, G., Sivachandran, R., Nobel parisu and Rajalakshmi, 2008. Biodiversity/Agro Biodiversity Conservation mela, organized by National Biodiversity authority, (Government of India), Chennai in collaboration with Loyola College, Presidency College, Queen Mary's College and Indian Coast guard HOCGR (East) Chennai on 19th – 22nd May, 2008. **(Won Third Prize).**
38. Karikalan, T.Karthikeyan, S.Gomathinayagam, M.Raman, **L.Veerakumari** and S.Abdul Bashit, 2008. In vitro anthelmintic effect of seed extracts of *Magnifera indica* on *Haemonchus contortus* larvae. Presented at International conference on Emerging Infectious Diseases of Animals and Biotechnological Applications, Tamilnadu Veterinary and Animal Sciences University Chennai, India on 28th & 29th 2008.

39. K.Mahalakshmi and **L.Veerakumari**, 2008. Protective potential of *Andrographis paniculata* against acetaminophen induced mitochondrial dysfunction. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi.
40. **L.Veerakumari**, T.Rajalakshmi, and V.Mythili priyadarsini, 2008. *In vitro* effect of *Punica granatum* Linn on the motility of *Cotylophoron cotylophorum* and *Haemonchus contortus*. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. From Dec 12-14.
41. **L.Veerakumari** and R.Siva chandran, 2008. *In vitro* effect of *Allium sativum* Linn on the motility of *Haemonchus contortus*. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. From Dec 12-14.
42. C.N.Nobleparisu and **L.Veerakumari**, 2008. Molecular docking of Allin, Allicin, Azadirachtin and Andrographolide with succinate dehydrogenase of some protozoan parasites. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. From Dec 12-14.
43. C.Murugesan and **L.Veerakumari**, 2008. Molecular docking of Allin, Allicin, Azadirachtin and Andrographolide with lactate dehydrogenase of *Schistosoma japonicum*. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. From Dec 12-14.
44. **L.Veerakumari** and V.Mythili priyadarsini, 2008. *In vitro* effect of *Punica granatum* of fumarate reductase and succinate dehydrogenase of *Cotylophoron cotylophorum* (Fischöeder, 1901). Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. from Dec 12-14.
45. M.Gunasekaran and **L.Veerakumari**, 2008. Binding energy of Andrographolide with Acetylcholinesterase of *S. japonicum* and *Homo sapiens*. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. From Dec 12-14.
46. P.S.Prince and **L.Veerakumari**, 2008. Effect of textile effluent – vermicompost on the medicinal plant *Ocimum sanctum* Linn. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi from Dec 12-14.

47. Raja.G and **L.Veerakumari**, 2008. Influence of vermicomposts on the yield and alkaloid content of *Withania somnifera* Dunal. Presented at 29th National Conference of IABMS organized by RAGAS Dental College Uthandi. Dec 12-14.
48. **L.Veerakumari** and Siva chandran R, 2009. *In vitro* effect of *Andrographis paniculata* on the motility of *Haemonchus contortus*. Presented at Frontiers at Biomedical sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College, Chennai – 600 030 on 27th February 2009.
49. G.Raja and **L.Veerakumari**, 2009. Influence of vermicomposts on the yield, Biochemical constituents and alkaloid contents of *Withania Somnifera*. Presented at Frontiers on Biomedical sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College, Chennai – 600 030 on 27th February 2009.
50. K.Mahalakshmi and **L.Veerakumari**, 2009. Assessment of the pharmacological effect of *Andrographis paniculata* on acetaminophen-induced DNA damage by single-cell gel electrophoresis. Presented at Frontiers on Biomedical sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College, Chennai – 600 030 on 27th February 2009.
51. C.Murugesan and **L.Veerakumari**, 2009. Molecular Docking of Allin, Allicin, Azhdirachtin and Andrographolide with LDH of *Tetrahymonas gallinarium*. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College, Chennai – 600 030 on 27th February 2009.
52. Thirupurasundari and **L.Veerakumari**, 2009. Effect of *Punica granatum* on the enzyme Glutathione-S-transferase of *Haemonchus contortus*. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on 27th February 2009.
53. Madhavan and **L.Veerakumari**, 2009. Effect of *Punica granatum* on the enzyme Glutathione-S-transferase of *Haemonchus contortus*. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on 27th February 2009.
54. K.Parvatham and **L.Veerakumari**, 2009. A Matrix representation of the carbohydrate catabolism of *Ascaris lumbricoides*. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on 27th February 2009 (**Received second prize for Poster Presentation**).

55. P.S.Prince and **L.Veerakumari**, 2009. An Assessment of bioconversion of textiles effluent using Earthworm into compost and its effect on the medicinal plant *Ocimum sanctum* Linn. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on 27th February 2009.
56. R.Gopinath, **L.Veerakumari** and Sivachandran R, 2009. Validation of Ethnoveterinary Anthelmintics: an *in vitro* study. Presented at Frontiers on Biomedical Sciences organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on 27th February 2009. **(Received Third prize)**.
57. Thirupurasundari, N., and **Veerakumari, L.**, 2009. *In vitro* effect of *Punica granatum* on Glucose and Glycogen content of *Cotylophoron cotylophorum*. Presented at "Recent Trends in Biological Sciences" organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on Sep 23rd.
58. Prince, P.S., and **Veerakumari, L.**, 2009. Effect of textile effluent-vermicompost on the medicinal plant *Ocimum sanctum* Linn. Presented at "Recent Trends in Biological Sciences" organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on Sep 23rd.
59. Ashwini, R., Lalhmingchhuanmawii, K., and **Veerakumari, L.**, 2009. Evaluation of the efficacy of *Acacia Concinna* and *Punica granatum* against *Cotylophoron cotylophorum*. Presented at "Recent Trends in Biological Sciences" organized by PG and Research Dept of Zoology, Pachaiyappa's College Chennai – 600 030 on Sep 23rd. **(Received Second prize)**.
60. Parvatham. K. and **Veerakumari, L.**, 2009. Reconstructed Carbohydrate catabolic pathway reactions of the Helminth parasite *Ascaris lumbricoides*. Presented poster at National seminar on Recent Biotechnological perspectives in Disease diagnosis and Therapy on Oct 23rd at Biopavilion, Mediclone Research Centre, Mediclone Academy of Biosciences, Chennai-600 048.
61. Thirupurasundari, N. and **Veerakumari, L.**, 2009. *In vitro* effect of *Punica granatum* on Glutathione-S-Transferase on *Cotylophoron cotylophorum*. Presented poster at National seminar on Recent Biotechnological perspectives in Disease diagnosis and Therapy on Oct 23rd at Biopavilion, Mediclone Research Centre, Mediclone Academy of Biosciences, Chennai-600 048.

62. Ashwini, R., Lalhmingchhuanmawii, K., and **Veerakumari, L.**, 2009. Evaluation of the efficacy of aqueous and solvent extracts of *Acacia concinna* and *Punica granatum* on *Cotylophoron cotylophorum*. Presented poster at National seminar on Recent Biotechnological perspectives in Disease diagnosis and Therapy on Oct 23rd at Biopavilion, Mediclone Research Centre, Mediclone Academy of Biosciences, Chennai-600 048. **(Received First prize for Poster presentation)**

63. Ashwini, R., and **Veerakumari, L.**, 2010. Efficacy of *Acacia concinna* Ethanol extract against *Cotylophoron cotylophorum*. Presented at International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation (ICMPHD 2010) on 4-6, March, 2010 at Department of Botany, Pachaiyappa's College, Chennai-30. **(Received Best Oral Presentation prize)**

64. Lalhmingchhuanmawii, K., and **Veerakumari, L.**, 2010. *In vitro* effect of *Allium sativum* on the activity of Glutathione S-Transferase of *Cotylophoron cotylophorum*. Presented at International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation (ICMPHD 2010) on 4-6, March, 2010 at Department of Botany, Pachaiyappa's College, Chennai-30.

65. Chitra, N., and **Veerakumari, L.**, 2010. *In vitro* effect of *Allium sativum* on Acetylcholinesterase (AChE) of *Haemonchus contortus*. Presented at International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation (ICMPHD 2010) on 4-6, March, 2010 at Department of Botany, Pachaiyappa's College, Chennai-30.

66. Parvatham. K., and **Veerakumari, L.**, 2009. Presented paper on An application of linear algebra in Biological networks at "Second National Conference on Mathematical Modelling in Global perspective" on 19th February 2010.

67. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on "*In vitro* effect of *Allium sativum* and *Punica granatum* on the motility and acetylcholinesterase activity of *Cotylophoron cotylophorum*" in 31st Annual Conference of Indian Association of Biomedical Scientists held at Swamy Vivekanandha College of Pharmacy, Elayampalayam, Trichengode, from 29th to 31st October, 2010. **(Received Second Prize for Poster presentation).**

68. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on "Light and electron microscopic studies on the effect of *Acacia concinna* on *Cotylophoron cotylophorum*" in 31st Annual Conference of Indian Association of Biomedical Scientists

held at Swamy Vivekanandha College of Pharmacy, Elayampalayam, Trichengode , from 29th to 31st October,2010.

69. Chitra, N. and **Veerakumari, L.**, 2010. Presented poster on “*In vitro* effect of *Allium sativum* on the motility and Glutathione-S-Transferase activity of *Haemonchus contortus*” in 31st Annual Conference of Indian Association of Biomedical Scientists held at Swamy Vivekanandha College of Pharmacy, Elayampalayam, Trichengode , from 29th to 31st October,2010.
70. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on “*In vitro* effect of *Punica granatum* on the glucose and glycogen content of *Cotylophoron cotylophorum*” at International conference on “Global environment and its sustainability: Implications and strategies” held at Presidency College,Chennai, on 7th November,2010.
71. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2010. Presented paper on “Light and electron microscopic studies on the effect of *Acacia arabica* on *Cotylophoron cotylophorum*” at International conference on “Global environment and its sustainability: Implications and strategies” held at Presidency College,Chennai, on 7th November,2010.
72. Chitra, N., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on “*In vitro* effect of *Punica granatum* on the motility and Glutathione-S-Transferase activity of *Haemonchus contortus*” at International conference on “Global environment and its sustainability: Implications and strategies” held at Presidency College,Chennai, on 7th November,2010.
73. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on “*In vitro* effect of *Punica granatum* on Glutathione-S-Transferase activity of *Cotylophoron cotylophorum*” at International conference on “Challenging and emerging dimensions in medicinal/ herbal plants and their products: A global perspective” held at Chennai Trade Centre, Nandambakkam, Chennai, from 26th to 28th November, 2010.
74. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on “*In vitro* studies of *Acacia concinna* on the acetylcholinesterase activity of *Cotylophoron cotylophorum*” at International conference on “Challenging and emerging dimensions in medicinal/ herbal plants and their products: A global perspective” held at Chennai Trade Centre, Nandambakkam, Chennai, from 26th to 28th November, 2010.

75. Chitra, N., **Veerakumari, L.**, Saraswathy, A., 2010. Presented poster on “Effect of *Allium sativum* on *Haemonchus contortus* – A structural analysis” at International conference on “Challenging and emerging dimensions in medicinal/ herbal plants and their products: A global perspective” held at Chennai Trade Centre, Nandambakkam, Chennai, from 26th to 28th November, 2010.
76. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on “*In vitro* effect of *Punica granatum* on fumarate reductase and succinate dehydrogenase activity of *Cotylophoron cotylophorum*” at International conference on “Recent trends in Therapeutic advancement of free radical science and 10th Annual meeting of the Society for free radical research, held at Hotel Savera from Jan 9-11, 2011.
77. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on “Effect of *Acacia concinna* on the acetylcholinesterase activity of *Cotylophoron cotylophorum*” at International conference on “Recent trends in Therapeutic advancement of free radical science and 10th Annual meeting of the Society for free radical research, held at Hotel Savera from Jan 9-11, 2011.
78. Chitra, N., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on “*In vitro* effect of *Andrographis paniculata* on the motility and acetylcholinesterase activity of *Haemonchus contortus*” at International conference on “Recent trends in Therapeutic advancement of free radical science and 10th Annual meeting of the Society for free radical research, held at Hotel Savera from Jan 9-11, 2011.
79. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on “*In vitro* effect of *Allium sativum* on fumarate reductase and succinate dehydrogenase activity of *Cotylophoron cotylophorum*” in Second National Seminar on Recent Biotechnological perspectives in disease diagnosis and therapy” organized by Mediclone Research centre, Biopavillion, Velichai, Kolathur post, Chennai on 18th & 19th February, 2011.
80. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on “Effect of *Acacia concinna* on pyruvate kinase and phosphoenolpyruvate carboxykinase activity of *Cotylophoron cotylophorum*” in Second National Seminar on Recent Biotechnological perspectives in disease diagnosis and therapy” organized by Mediclone Research centre, Biopavillion, Velichai, Kolathur post, Chennai on 18th & 19th February, 2011.

81. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on "Structural analysis on the effect of *Allium sativum* on *Cotylophoron cotylophorum*" in National conference on emerging trends in biological research (NCEBR – 2011) organized by University of Madras, Chepaulk, Chennai on 21st & 22nd February, 2011.
82. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on "Invitro studies on the effect of *Acacia arabica* on the carbohydrate metabolism of *Cotylophoron cotylophorum*" in National conference on emerging trends in biological research (NCEBR – 2011) organized by University of Madras, Chepaulk, Chennai on 21st & 22nd February, 2011. **(Received Best Paper Award)**
83. Chitra, N., **Veerakumari, L.**, 2011. Presented paper on "In vitro effect of *Allium sativum* on Lactate dehydrogenase activity of *Haemonchus contortus*" in National conference on emerging trends in biological research (NCEBR – 2011) organized by University of Madras, Chepaulk, Chennai on 21st & 22nd February, 2011.
84. Lalhmingchhuanmawii, K., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on "Evaluation of efficacy of *Punica granatum* Ethanol extract against *Cotylophoron cotylophorum*" in International conference on frontiers in pharmaceutical chemistry and biologics – ICFPCB 2011 organised by Women's Christian College, Chennai on 29th & 30th July, 2011 **(Received First Prize for Oral Presentation).**
85. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on "Studies on the effect of *Acacia arabica* against *Cotylophoron cotylophorum*" in International conference on frontiers in pharmaceutical chemistry and biologics – ICFPCB 2011 organised by Women's Christian College, Chennai on 29th & 30th July, 2011.
86. M. Gunasekaran and **L. Veerakumari**, 2011. Presented paper on " Docking effect of *Allium sativum* on acetylcholinesterase enzyme of *Cotylophoron cotylophorum*" in International conference on frontiers in pharmaceutical chemistry and biologics – ICFPCB 2011 organised by Women's Christian College, Chennai on 29th & 30th July, 2011.
87. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented paper on "Studies on the effect of *Acacia arabica* against *Cotylophoron cotylophorum*" in International conference on frontiers in pharmaceutical chemistry and biologics – ICFPCB 2011 organised by Women's Christian College, Chennai on 29th & 30th July, 2011.
88. M. Gunasekaran and **L. Veerakumari**, 2011. Presented paper on " Docking effect of *Allium sativum* on acetylcholinesterase enzyme of *Cotylophoron cotylophorum*" in International conference on frontiers in pharmaceutical chemistry and biologics – ICFPCB 2011 organised by Women's Christian College, Chennai on 29th & 30th July, 2011.

89. Lalhmingchhuanmawii, K., **Veerakumari, L.**, 2011. Presented poster on "*In vitro* effect of *Punica granatum* on the morphology and internal architecture of *Cotylophoron cotylophorum*" in National congress on Bioscience research, organized by Department of Microbiology, Ethiraj College for Women and Biolim centre for science on 26th and 27th August.
90. Ashwini, R., **Veerakumari, L.**, Saraswathy, A., 2011. Presented poster on "*In vitro* studies on the anthelmintic effect of *Acacia arabica* against *Cotylophoron cotylophorum*" in National congress on Bioscience research, organized by Department of Microbiology, Ethiraj College for Women and Biolim centre for science on 26th and 27th August.

By Dr.T.Sekar, Assistant Professor of Botany

1. Sekar, T. and Gopalakrishnan, M., 2007. Micropropagation of *Ruta garveolens*. *Journal of Tropical Medicinal Plants* 8 (2): 224-230.
2. Janarthanam, B., Gopalakrishnan, M. and Sekar, T., 2008. A rapid *in vitro* propagation method for *Vanilla planifolia*. *Journal of Tropical Medicinal Plants* 9 (1): 49 – 52.
3. Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2009. *In vitro* plant regeneration from nodal explants of *Exacum travancoricum*. *Journal of Tropical Medicinal Plants* 10 (2): 205-208.
4. Janarthanam, B., Gopalakrishnan, M., Lakshmisai, G. and Sekar, T., 2009. Plant Regeneration from leaf derived Callus of *Stevia rebaudiana*. *Plant Tissue Culture and Biotechnology* 19 (2): 133-141.
5. Udayakumar, M., Ayyanar, M. and Sekar, T., 2009. Indigenous knowledge on medicinal plants among the local people of Puducherry region (Union Territory), India. *Ethnobotanical Leaflets* 13: 1401-408.
6. Gopalakrishnan, M., Janarthanam, B., Lakshmi Sai, G. and Sekar, T., 2009. Plant regeneration from leaf explants of *Plumbago rosea* L. *Plant Tissue Culture and Biotechnology* 19 (1): 79 – 87.

7. Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2009. *In vitro* plant regeneration from nodal explants of *Exacum travancoricum*. *Journal of Tropical Medicinal Plants* 10 (2): 205-208.
8. Janarthanam, B., Gopalakrishnan, M., Lakshmisai, G. and Sekar, T., 2009. Plant Regeneration from leaf derived Callus of *Stevia rebaudiana*. *Plant Tissue Culture and Biotechnology* 19 (2): 133-141.
9. Udayakumar, M., Ayyanar, M. and Sekar, T., 2009. Indigenous knowledge on medicinal plants among the local people of Puducherry region (Union Territory), India. *Ethnobotanical Leaflets* 13: 1401-408.
10. Gopalakrishnan, M., Janarthanam, B., Lakshmi Sai, G. and Sekar, T., 2009. Plant regeneration from leaf explants of *Plumbago rosea* L. *Plant Tissue Culture and Biotechnology* 19 (1): 79 – 87.
11. Rajeshbabu, P., Ayyanar, M., Rasool, S.K., Sheriff, M.A. and Sekar, T., 2011. *In vitro* antibacterial activity of *Piper betel* L. and Black betel cv. *Kammar* leaves against *Staphylococcus aureus* and *Streptococcus pneumonia*. *Journal of Pharmacy Research* 4(7): (In press)
12. Jeyaprakash, K., Ayyanar, M. K. N. Geetha and Sekar, T., 2011 Ethnomedicinal knowledge of Muthuvar and Paliyar Tribal Communities in Theni District (Western Ghats), Southern India. *Asian Pacific Journal of Tropical Biomedicine* (In press)
13. Karthik, V., Raju, K., Ayyanar, M., Gowrishankar, K and Sekar, T., 2011. Ethnomedicinal Uses of Pteridophytes in Kolli Hills, Eastern Ghats of Tamil Nadu, India. *Journal of Natural Product and Plant Resources* 1(2): 50-55.
14. Udayakumar, M., Ayyanar, M. and Sekar, T., 2011. Angiosperms of Pachaiyappa's College, Chennai, Tamil Nadu, India. *Check List, Journal of Species Lists and Distribution* 7(1): 37 – 48.
15. Ayyanar, M., Sankarasivaraman, K., Ignacimuthu, S. and Sekar. T., 2010. Plants used for non-medicinal purposes by Paliyar tribals in Theni district, Western Ghats of Tamil Nadu, India. *Asian Journal of Biological Environmental Sciences* 1(4): 765 – 771.
16. Janarthanam. B, Gopalakrishnan. M and Sekar. T., 2010. Secondary Metabolite Production in Callus Cultures of *Stevia rebaudiana* Bertoni. *Bangladesh Journal of Scientific and Industrial Research* 45(3), 243-248.

17. Janaky, R., Sivasankari, K., Sekar, T., 2010. Secondary metabolites investigation and its derivatives on *Cassia occidentalis*. *Journal of Chemical and Pharmacuetical Research* 2(4):371-377.
18. Sekar, T., Ayyanar, M., Gopalakrishnan, M., 2010. Medicinal plants and Herbal Drugs. *Current Science* 98 (12): 1558 – 1559. (Meeting Report)
19. Udayakumar, M., Dhatchanamoorthy, N., Ajithadoss, K. and Sekar, T., 2010. A floristic study in a perennial lake of Thiruvallur district, south India. *WebmedCentral Ecology* 1(10): WMC001037.
20. Udayakumar, M., Ayyanar, M. and Sekar, T., 2010. Medicinal Plants used by local practitioners in Villupuram district of Tamil Nadu, Southern India. *Medicinal Plants, an International Journal* 2(2): 145 - 155.
21. Thendral Hepsibha, B., Premalakshmi, V. and Sekar, T., 2010. Genetic diversity in *Azima tetraacantha* (Lam.) assessed through RAPD analysis. *Indian Journal of Science and Technology* 3 (2): 170-173.

3.2.5 Give list of publications of the faculty.

a) Books

S. No	Authors Name	Title	Year of Publication	Name of the Publisher	Total Pages
1	Dr.S.Gunasekaran, Chairperson	XII Std. Higher Secondary Physics	2005	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	552
2	Dr.S.Gunasekaran, Chairperson	XI Std. Higher Secondary Physics	2004	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	485
3	Dr.S.Gunasekaran, Chairperson	VI Std. Science	2003	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	250
4	Dr.S.Gunasekaran, Chairperson	XII Std. Environmental	2005	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	58

S. No	Authors Name	Title	Year of Publication	Name of the Publisher	Total Pages
		Education			
5	Dr.S.Gunasekaran, Chairperson	XI Std. Environmental Education	2005	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	79
6	Dr.S.Gunasekaran, Chairperson	X Std. Environmental Education	2005	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	71
7	Dr.S.Gunasekaran, Chairperson	IX Std. Environmental Education	2005	Tamilnadu Text Book Corporation, Govt. of Tamilnadu	50
8	Dr.S.Gunasekaran, Chairperson	XII Std. Higher Secondary Physics - Practical Work Book	2005	Directorate of School Education, Govt.of Tamilnadu.	62
9	Dr.S.Gunasekaran, Chairperson	XI Std. Higher Secondary Physics - Practical Work Book	2004	Directorate of School Education, Govt.of Tamilnadu.	80
10	Dr.S.Gunasekaran, Chairperson	X Std. Higher Secondary Physics - Practical Work Book	2004	Directorate of School Education, Govt.of Tamilnadu.	60

S. No	Authors Name	Title	Year of Publication	Name of the Publisher	Total Pages
11	Dr.S.Gunasekaran, Chairperson	IX Std. Higher Secondary Physics - Practical Work Book	2004	Directorate of School Education, Govt.of Tamilnadu.	60
12	Dr.S.Gunasekaran, Chairperson	Question Bank for Higher Secondary Physics	2005	PTI, Directorate of School Education, Govt.of Tamilnadu.	227
13	Dr.S.Gunasekaran, Chairperson	Solutions to unsolved problems, XII Std. Higher Secondary Physics	2005	PTI, Directorate of School Education, Govt.of Tamilnadu.	77
14	Dr.S.Gunasekaran, Chairperson	Applied Physics for Vocational Group - Higher Secondary Physics	2005	Tamilnadu Text Book CorporationGovt.of Tamilnadu.	102

By V.Thyagarajan, Associate Professor of Commerce

1. Basic Economics, Management and Accounting, Cheng Ming Yu, Sayed Hossain, Yeap Peik Foong, Venu Thyagarajan, Published by **Prentice Hall, Malaysia, 2001**
2. "Evaluating the Productivity and Efficiency of Malaysian Commercial Banks" Report for the Funded project of Multimedia University, Malaysia Internal Funding, Project Number PR/2001/0063

Books publication of Mr.S.Krishnasamy, Associate Professor of History

Books Authored	:	<p>Kalaingnar Kalangium - 1989.</p> <p>Mudhal Saathanaigal</p> <p>Ariya Seithigal</p> <p>Uruppinar Kudumba Thahaval Puthagam.</p>
Books Co-authored	:	<p>Chennai Arivoli Part – I</p> <p>Govt. of Tamil Nadu Publication, 1996.</p> <p>Human Rights in India, Historical, Social and Political Perspectives.</p> <p>Oxford University Press Publication – 1999.</p>
Text Book	:	<p>Reviewer & Author</p> <p>Social Science (English Medium) VII Std.,</p> <p>Published by the Text Book Corporation,</p> <p>Government of Tamilnadu,</p> <p>From 2002 – 2008.</p> <p>Reviewer and Author</p> <p>Social Science (Tamil Medium) VII Std.,</p> <p>Published by Text Book Corporation.</p> <p>Government of Tamilnadu</p> <p>From 2002-2008.</p> <p>Chairman of the authors team</p> <p>Teaching Learning Materials for VII Std.,</p> <p>Social Science Teachers.</p> <p>Government of Tamilnadu Publication.</p>
Books ready for publication	:	<p>Biography of Dr.Rajah Sir M.A.Muthia Chettiar</p> <p>Role of Women in Indian Freedom Struggle</p> <p>History of the Justice Party.</p> <p>Tamil Isai Iyeakka Varalaru.</p>

		History of the Vokkaliga Gowdas of Tamilnadu
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Dr.P.Kandaswamy, Principal

“The Political career of K.Kamaraj
– A study in the politics of Tamil Nadu“ (1920-1975)
Concept Publishing House
New Delhi – 59, January 2000

Select papers on the Tamil Nadu History,
MJP Publication, Chennai, 2005

Dr.L.C.Thirumalai, Lecturer

Thondaradipodi Alvaarin Iraiyaanmai

(M.Phil - Thesis, 2004)– Financial
Assistance by Govt. of Tamil Nadu , Tamil
Valarchi Kayazagam.

Naalayira DivyaPrabandathil Muthamiz Unarvugal
(Ph.D., - Thesis, 2009) Financial Assistance by
Govt. of Andra Pradesh, The Board of Thirumala –
Thirupathi Devasthanam, Thirupathi.

Dr.S.Djodilatchoumy, HOD of Computer Science

1. Published the paper titled “An intelligent System for the characterization of Hyperlipidemic blood and a comparative study on the efficacy of Statins” in “Oriental Journal of Computer Science and Technology” Vol. 1 June 2008.
2. Published the paper titled “An intelligent system for the characterization of Chronic Renal Failure blood and study on the efficacy of Simvastatin” in “International Journal of Algorithms, Computing and Mathematics” Vol.1 November 2008.
3. Published the paper titled “An intelligent tool for the characterization of

Anaemic blood and to find the therapeutic effect of **Erythropoietin using spectral data** in “Indian Journal of Science and Technology” Vol. 2 July-August 2009.

4. Published the paper titled “Efficient activation functions for the back-propagation neural network in the characterization of diseases using spectral data in “International Journal Computational Intelligence Research and Applications” Vol. 3 July-December 2009.

b) Articles

Articles of Dr.P.Kandaswamy **“Democratic Movement and Political Upsurge – The fourth General Election in the Tamil Nadu – A study “**
Collected papers on Socio Political

Movements of South India, Department of Politics and Public Administration, University of Madras, Chennai 1996”

“Tamil Journals – A Historical Perspective”

Tamizhkalai, Tamil University, Tanjavur 1996

“Edhazhiyal Chattangal”,

Indhia Viduthalaikku Munthaiya Thamizh Idhahagal, Vol.4 International Institute of Tamil Studies, Chennai, 1998

Rowlatte Act and its impact in the Madras Presidency

Geographical Features – Ethnography of Tamil Country in University of Madras

The Pallavas of Kanchi – Simhavishnu and his successors

Administrative Institutions in the Tamil Country (From 600 to 900 A.D.)

Research Articles Published in International Journals by Dr.V.Thyagarajan, Associate Professor of Commerce

1. The Influence of Friends, Family and Media In Classifying Online Shopper Innovativeness In Malaysia, Norazah Mohd. Suki, Venu Thyagarajan, Mohd. Ismail. ***European Journal of Social Sciences, Vol.5. Number 1 (2007)***
2. What Drives Customer Loyalty : An Analysis from the Telecommunication Industry, Ali Khatibi, Hishamuddin Ismail and Venu Thyagarajan, ***Journal of Targeting, Measurement Analysis for Marketing, (UK) Sep.2002 Vol.11 Issue 1. (Available in Proquest Central)***
3. Retail Banking Loan Portfolio Equilibrium Mix: A Markov Chain Model Analysis, V.Thyagarajan and Saiful Maznan Bin Mohamed, ***American Journal of Applied Sciences, Science Publications USA, Vol.2(1) 410-419, Jan.2005***
4. Prioritising the Research Agenda for E-Commerce In Malaysia, Ali Kahatibi, V.Thyagarajan, Adeline Chua and Mohd. Ismail. ***International Business and Economic Research Journal, Western Academic Press USA, Sept 2003, Vol 2, No.7***
5. E-commerce in Malaysia : Perceived Benefits and Barriers, Ali Kahatibi, V.Thyagarajan and A.Seetharaman. ***Vikalpa, IIM Ahamadabad Vol.28 No.3 July-Sept.2003***

Research Articles Published in National Journals by Dr.V.Thyagarajan, Associate Professor of Commerce

1. 'Consumer Satisfaction – Determinants & Measurement' V.Thyagarajan, & M.Ravichandran, ***NMIMS Management Review, Journal of Narsee Monjee Institute of Management Studies, Mumbai, Vol.X,No.II, July – Decemeber 1998.***
2. "Consumer Perceptions on Product Feaures and Customer Support Services – A Factorial Analysis" M.Ravichandran and V.Thyagarajan, ***Special Issue on Marketing – Udyog Pragati, National Institute of Industrial Engineering, Bombay, Vol.XXIV (3), Jul.-Sept.1998.***
3. 'Consumer Purchase Preference and Priorities - A Factorial analytical approach', M.Ravichandran, V.Thyagarajan, ***Ind.J.Commerce, Indian Commerce Association, New Delhi, Vol.51(1) March,98 (1998)..***

4. Intellectual Capital : Components and Measurement : M.Ravichandran, V.Thyagarajan and M.Munikrishnan **The Indian Journal of Commerce**. Vol.57 No.1 Jan-March 2004
5. `Consumer Complaining Intentions', V.Thyagarajan, **Indian Journal of Marketing**, New Delhi, Vol.XXVIII, Jan-Apr.1988
6. `Redefining Service Strategies', V.Thyagarajan, **Southern Economist, Bangalore**, Vol.38, No.12, October15, 1999,.
7. `Consumer Complaining Intentions', M.Ravichandran, V.Thyagarajan, **The Journal of Business Studies**, Cuttak, Vol.IV, No.IV, 1998-99.
8. Customer Satisfaction factors and Its Relationship with Customer Loyalty in Semi conductor Industry, Hishamuddin Ismail, Ali Khatibi, and Venu Thyagarajan, Journal of Social Science, Vol.7, Number .1. Jan.2003
9. Consumer Complaining Intentions : An Antecedent to Consumerism, Venu Thyagarajan and Ali Khatibi, Journal of Human Ecology, Volume 13, Number 4. July 2002
- 10.BPR – A Tool for Managing the Change, V.Thyagarajan and Ali Khatibi, Journal of Human Ecology, Vol. 15, Number .1. January, 2004
- 11.The Effect of Job Stress on Productivity, Job Satisfaction and Turnover : A Study, V.Sumathy, V.Thyagarajan, Ideas, Insights and innovations of Management Research,- An International Perspective.2009
12. **"Intellectual Capital and Organizational Effectiveness"** *Global Journal of E-Business & Knowledge Management- Published by IIT Delhi, accepted for publication.2011*
- 13.Global Financial Crises – An Indian Scenario, - proceedings of International conference on Global Financial Challenges conducted by Bharat University, Chennai - 2011

c) Conference/Seminar Proceedings

Organization of Congress/Conference / Seminar by Dr.P.Kandaswamy, Principal

Local Secretary, 31st All India Conference of Dravidian Linguistic, Pachaiyappa's College for Men, Kanchipuram, June – 2003.

Chief Patron, UGC, National Conference on the Economics Reforms Trends and Challenges, 11th Sep 2004 at Pachaiyappa's College for Men Kanchipuram

Local Secretary, 11th Annual Conference of the Tamil Nadu History Congress, Pachaiyappa's College for Men, Kanchipuram from 5-7th November 2004

Member Executive Committee South Indian History Congress Session Trivandrum (2000-2001)

Chairperson, Political session, 12th Annual convention of the Tamil Nadu History Congress held at Mailaduthurai in 2003

Local Secretary, 17th International Conference on Numismatics Society January 27th and 28th 2007 at Pachaiyappa's College for Men, Kanchipuram

International and National Conference / Symposium chaired and / or delivered invited lectures by Dr.S.Gunasekaran, Associate Professor and HOD of Physics

- International Conference - 11
- National Conference - 59

1. Recent Research Trends in Nano and BioSciences, June 2011, Dr. MGR University, Chennai, India.
2. International Conference on Perspectives on Vibrational Spectroscopy, September 2010, Annamalai University, Annamalai Nagar.
3. National Conference on Physical Sciences, February 2010, Chennai, India
4. national Conference on Spectroscopy and Electronics, February 2010, Namakkal, Salem
5. National Conference on Perspectives in Lasers and Spectroscopy, September 2009, Chennai, India
6. National Seminar on Recent Advancements in Materials and Energy, Vellore, Tamil Nadu, March – 2009.
7. Seminar on Recent Advances in Chemical Sciences (RACS 2009), Salem, Tamil Nadu, March 2009.
8. International Conference on Photonics, Nanotechnology and Computer applications (ICOPNAAC-2009), Tanjore, Tamil Nadu, February – 2009.
9. Seminar on Recent Advances in Spectroscopy, Salem, Tamil Nadu, January – 2009.
10. Seminar on New Age materials science (NAMS-2009), Kancheepuram, January – 2009.
11. Seminar on Nano Technology and its applications, Salem, Tamil Nadu, September – 2008.

12. 6th National Conference of Indian Association of Applied Microbiologists, Salem, Tamil Nadu, December – 2008.
13. National Conference on Recent advances in Metal organic chemistry (RAMC – 2008), Salem, Tamil Nadu, October – 2008.
14. National Conference on Perspectives in Lasers and Spectroscopy, September 2009, Chennai, India
15. National Conference on emerging trends in crystal growth and nanomaterials, March 2008, India.
16. International Conference on Materials Science Research and Nanotechnology (ICMSRN), 27-29 February 2008, Kodaikanal, India.
17. II International Conference on perspectives of vibrational spectroscopy, (ICOPVS), 24-28 February 2008, Trivandrum, India.
18. National Conference on Recent Advances in Physics (NCRAP), February 2008, Chennai, India.
19. National Conference on Advanced Materials (NCAM), February 2008, Thanjavur, India.
20. National Conference on New trends in material science, October 2007, Puducherry, India.
21. Seminar on recent advances in Physics, September 2007, Tirupatthur, India.
22. National Conference on recent advances in molecular structure (NCMS), July 2007, Chennai, India
23. National Conference on Vibrational Spectroscopy, March 2007, Thiruvella, Kerala.
24. Seminar on Advanced topics in Chemistry, March 2007, Trichy, India.
25. Seminar on biological and pharmaceutical applications of spectroscopy, Feb. 2007, Chennai, India.
26. National Conference in photonics and its applications, Feb 2007, Thanjavur, India
27. National Seminar on Advanced topics in Physics, Feb. 2007, Trichy, India.
28. National Conference on recent advances in Materials science (RAMS), January 2007, Chennai, India.
29. National Conference on recent advances in Vibrational Spectroscopy, Jan. 2007 Periyar University, Salem, India.
30. International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS), February 2006, Meerut, India.
31. International Symposium on Advances in Physics, February 2006, Meerut, India.
32. National Conference on Recent Advances in Materials Science (NCMS- 2006), February 2006, Salem, India.
33. National Conference on Subtle World of Physics (SWOP 2006), February 2006, Thiruchengodu, India.
34. National Conference on Application Oriented materials, April 2006, SRM Engineering College, Chennai, India.
35. International Conference and Workshop on Innovations & Challenges in Bio-Technology, January 2006, Bharat Institute of Higher Education and Research, Chennai, India.

36. Seminar on new vistas on Spectroscopy, September 2005, Vaniambadi, India.
37. National Seminar on recent applications of Ultrasonics, September 2005, Trichy, India.
38. International Conference on SpectroPhysics (INCONS 2005), February 2005, Chennai, India
39. Seminar on Spectroscopy, October 2004, Thanjavur, India.
40. National Conference on Seminar on emerging trends in Physics, October 2004, Cuddalore, India.
41. Spectroscopic Applications and Instrumentation, October 2004, Vellore, India.
42. National Seminar on Recent Advances in Molecular Interactions, March 2004, Coimbatore, India.
43. National Conference on Lasers and Spectroscopy, February 2003, Meerut, India.
44. National symposium on Atomic molecular structure, Interactions and Laser spectroscopy, February 2002, Varanasi, India.
45. National Conference on Recent advances in Materials Science (NCMS-2002) December 2002, Tiruchirappalli, India.
46. National Conference on Lasers and Spectroscopy, December 2001, Meerut, India.
47. National Conference on Recent Advances in Material Science, September 2000, Tiruchirappalli, India.
48. National Conference on SpectroPhysics (NCONS2000), August 2000, Chennai, India.
49. State conference on recent advances in physics, December 2000, Chennai, India.
50. International Conference on Lasers and their Applications, March 2000, Tiruchirappalli, India.
51. National seminar on recent trends in vibrational spectroscopy, July 1999, Tiruchirappalli, India.
52. National Conference on Lasers and Spectroscopy, February 1999, Meerut, India.
53. National seminar on Spectroscopy, Lasers and Laser applications, March 1998, Kochin, India.
54. National seminar on materials science, An Indian Scene, January 1998, Tiruchirappalli, India.
55. National conference on Spectrophysics (NCONS ' 97), February 1997, Chennai, India.
56. National seminar on recent trends in vibrational spectroscopy, December 1996, Meerut, India.
57. Tamizhaga Arrivial Peravai, December 1996, Coimbatore, India.
58. International Conference on Spectroscopy, December 1996, Mumbai, India.
59. National Seminar on Crystallography, February 1993, Chennai, India.
60. National Symposium on Spectroscopy and Astrophysics, October 1993, Allahabad, India.
61. Seminar on recent trends of spectroscopy in physics, chemistry and allied fields, July 1991, Chennai, India.
62. National symposium on Raman spectroscopy, January 1989, Pondicherry, India.

63. International seminar on Instrumental methods of Electro-analytical techniques November 1988, Mysore, India.
64. International Conference on Raman Spectroscopy, February 1988, Calcutta, India.
65. Workshop on Lasers and Spectroscopy, January 1987 IIT, Kanpur, India.
66. Summer school on Laser Technology and Applications, April 1985, Chennai, India.
67. Symposium on Theoretical Chemistry and Molecular Spectroscopy, December 1985, Calcutta, India.
68. Seminar on Molecular Spectroscopy, September 1985, Annamalai University, Chidambaram, India.
69. National conference on Vibrational spectroscopy, March 1985, Chennai, India.
70. National conference on Vibrational Spectroscopy, March 1983, Chennai, India.

**Lectures delivered in seminars/conferences/ orientation programme by
Dr.L.Veerakumari, Associate Professor and HOD of Zoology**

1. Lecture on Vermitechnology – Civic exnora – 27th April 2008.
2. Lecture on Vermitechnology – Seminar on advances in Biological sciences at Bharathi Women's College – February 2008.
3. Lecture on Anthelmintic drug development– Mediclone academy of Biosciences.2009
4. Lecture on Solid waste management Rotary club - Chief Guest – 2008.
5. Lecture on Wealth through waste management-Chief Guest in the seminar conducted by The Institution of Engineers- Tamilnadu Centre 2008
6. Lecture on Biomolecules Chief Guest in the seminar organized by Meenakshi College – 2007.
7. Chief Guest and judge for poster presentation in the seminar organized by Meenakshi College – 2008
8. Chief guest- teachers orientation programme- Vellammal scholl-mogapair, Chennai- 2007
9. Lecture on Bioremediation -Chief Guest in the seminar organized by Meenakshi College –2010.
10. Lecture on acetylcholinesterse database-Chief Guest in St.Peter's Engineering College – Natura – 2008.
11. Chief Guest in St.Peter's Engineering College-Judge for oral presentation– 2009.
12. Lecture on Phytotherapeutics in the treatment of paramphistomosis in livestock- at International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation (ICMPHD 2010) on 6th March, 2010 at Department of Botany, Pachaiyappa's College, Chennai-30.
13. Lecture on Anthelmintic drug discovery-A systematic approach-Seminar conducted by TNSCST- at University of Madras - 2010

14. Lecture on Anthelmintic drug development-A systematic approach -Chief Guest
Zoology Association- Holycross home science College- Tuticorin.2011
15. Lecture on biomolecules –Orientation programme for college teachers –Academi staff
college - at University of Madras – 2011
16. Scientific deliberations – IABMS – 12.02.2010. Vishakapatnam

NUMBER OF NATIONAL/ INTERNATIONAL SEMINARS ATTENDED :

National : 11

International: 7

NUMBER OF NATIONAL/ INTERNATIONAL SEMINARS ORGANIZED: 2

1. National Seminar on "**Frontiers in Biomedical Sciences and Exhibition of Medicinal plants**" on 27th February 2009 at PG and Research Department of Zoology Pachaiyappa's College, Chennai.
2. Seminar on "**Recent trends in biological Sciences**" on 23rd September 2009 at PG and Research Department of Zoology Pachaiyappa's College, Chennai.

Participation of Mr.S.Krishnaswamy, Associate Professor of History

Seminars Participated – : Topics & Places	<p>South Indian History Congress Trivendrum 1983.</p> <p>Indian History Congress, Calcutta University, Calcutta, West Bengal.</p> <p>Tamilnadu History Congress University of Madras.</p> <p>"Ethnic issues in Srilanka, Elam as a remedy" Indian History Congress.</p> <p>University of Kashmir, Srinagar, Kashmir.</p>
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		<p>“Village female goddesses in Tamilnadu A Study” World Tamil Research Institute, Chennai.</p> <p>“Mrs. Indhira Gandhi’s Contributions to the population Control Programme in India” UGC. Seminar, Raju’s College, Rajapalayam.</p> <p>“Mahathma Gandhi and Dr. Ambedhkar a Comparative Study’. S.V.N. College, Madurai.</p> <p>“Ee. Ve. Ra. Periyar’s Women Development Ideas”, Anna Centre for Public affairs, University of Madras 1995.</p> <p>“Village Dieities in Tamilnadu A socio historic perspectives, IC HR National Seminar, 26th June 2004 Dept. of History, University of Madras, 2004.</p> <p>Human Rights Seminar, Sir Theagaraya College, University of Madras, 2005.</p> <p>National Seminar about the History of Madras held in Pachaiyappa’s College, Chennai 2010 presented 2 papers.</p> <p>The Role of Students of Madras City colleges in Indian Freedom Struggle.</p> <p>The Development of Education in Madras City</p>
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	<p>from 1930 to 1945.</p> <p>Paper titled the Role of Pachaiyappa's College students in freedom struggle presented at the ICHR sponsored National Seminar held in Sir Theagaraya College, Chennai on 24.03.2010.</p> <p>Paper on the socio cultural impact of the Female village goddess in Tamilnadu at a National Seminar organized by the Indian History Department, University of Madras in 2010.</p>
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Dr.T.Sekar, Assistant Professor of Botany

- International Conference on “Opportunities & Challenges in Biotechnology and Environmental Sciences – Erode, India, 22-23rd February 2007.
- Second International Conference and Indo-Canadian Satellite Symposium on Pharmaceutical Science, Technology, Practice and Natural Products, - Ooty, India, 24-26th February 2007.
- National Workshop on Medicinal Plants - Sri Venkateswara University, Tirupati, Andhra Pradesh, India, 10-11th March 2006.
- National Symposium on Current Trends in Medicinal Plants and Herbal Technology - K.M. Centre for Post - Graduate Studies, Pondicherry, India, 22-24th July 2006.
- Regional Seminar on Herbal Medicine – The Changing Scenario- Women's Christian College, University of Madras, Chennai, 10-11th August 2006.
- National Conference on Recent Trends on Medicinal Plants Research, Centre for Advance Studies in Botany, University of Madras, Chennai, India. 24-25th January 2007.

- National Conference on Status and Prospectus of Medicinal Plants Resources and Herbal Technology, PG & Research Dept. of Botany, Saraswathi Narayanan College, Madurai, India, 26-28th July 2007.

List of Research Articles presented in the International Conferences and included in the Conference Proceedings by Dr.V.Thyagarajan, Associate Profesor of Commerce

1. "WAP as a Marketing Strategy in Malaysia" V.Thyagarajan and Ali Khaitbi, Portland International Conference on Management of Engineering and Tecchonology - PICMET - Portland, Oregon, USA, 2001
2. Motivation and Concern Factors of shopping online IAMOT conference Proceedings, International Association of Management of Technology, 10th International Conference held at MIAMI USA during march 10-14 2002.
3. The Influence of Subjective Norm in Discriminating Online Shoppe
4. Innovativeness in Malaysia, at 12th European International Conference on IT Evaluations, Turku, Finland, Sept.28th – 30 , 2005
5. E-Commerce Business Opportunities for Telekom Malaysia, Referred article, In the International Conference on E-commerce conference Proceedings, 2000, held at Kuala Lumpur between Nov. 20-23, 2000.
6. Prioritising the Research Agenda for E-Commerce In Malaysia, Ali Kahatibi, V.Thyagarajan, Adeline Chua and Mohd. Ismail. **The International Business Research, at Acapulco, Mexico, March 2003**

AWARDED AS THE BEST PAPER IN THE CONFERENCE AND ALSO INCLUDED IN THE JOURNAL PUBLISHED BY THE ORGANIZERS

Dr.P.Arulmozhichelvan, Associate Professor of Physics

RESEARCH EXPERIENCE

Sponsored Research Activities

Year	Organisation	Project Title	Amount Received
1997	UGC	Spectroscopic investigation on the samples of pharmaceutical active compounds	Rs.30,000/-
2008	UGC	Investigation on the Development of Large size potentials stimulated Raman scattering Non Linear optical Barium Nitrate and through Novel ostwaldmiers Broadening method	Rs.1,00,000/-

RESEARCH PUBLICATIONS

Papers published in Journals

- Infrared spectroscopic technique for qualitative of storage polymers, Asian J.Physics 2, 161 (1993).
- Vibrational Spectra of Uranium Trioxide and its normal co-ordinate analysis, oriental journal of Chemistry, 11,2, 161-164 (1995).
- Growth and characterization of Semiorganic nonlinear optical rubidium bus-DL-mala to borate single crystals. Materials chemistry and physics (2007).
- Crystal growth, thermal and optical studies on a metal organic nonlinear optical material for dipotassium boro maleate (DKBM). Materials letters 64 (2010) 1506-1509.

Conference/Seminar participated

- International conference on Fourier Transform spectroscopy, Hungary (1995) – In absentia.
- International conference on spectroscopy, Bhabha Atomic Research Centre (BRAC) Bombay, India (1996).
- International conference on spectro physics, Pachaiyappa's College, Chennai, India (2005).

National

- Proceedings on III Tamil conference, Pondicherry University, Pondicherry, India (1994).
- Symposium on "FRONTIERS in Bio Diversity" Pachaiyappa's College, Chennai, India (1995).

- iii. National conference on spectrophysics, Pachaiyappa's College, Chennai, India (1997).
- iv. National seminar on recent trends in vibrational spectroscopy, Nehru Memorial College, Puthanampatti, Trichy, India (1999).
- v. National conference as spectrophysics, Pachaiyappa's College, Chennai, India (2000).

5. Books Published

Published two books

- i. **Applied Physics for First Year Diploma Engineers**
- ii. பயன்பாட்டு அறிவியல்

6. Recognised Research Guide

Number of Research candidates guided

M.Phil.,

(i) 8 candidates guided successfully

(ii) Presently guiding 1 candidate .

7. List of the conferences / seminar as co-ordinator or closely associated for successful organization of these programmes.

- i) International conference on spectrophysics (INCONS - 2005) – served as local advisory committee member.
- ii) National conference on spectrophysics, (NCONS - 1997) served as Treasurer.
- iii) National conference on spectrophysics (NCONS - 2000) - served as organizing secretary.
- iv) State level P.G. Students Technical Seminar (1998) served as secretary.

Membership of Scientific and Professional Societies

- i) Secretary – Indian spectrophysics association
- ii) Life member – Laser

Subject Expert

- i) Served as subject expert for the Teachers Recruitment Board (TRB) 2007 to select Lecturers for Government Colleges
- ii) Served as subject expert for the recruitment of teachers for SBOA schools.

Orientation / Refresher Courses attended

- i) Attended the orientation programme, conducted by Academic Staff College of University of Madras from 25.01.1988 to 25.11.1988.
- ii) Attended a refresher course on Environmental Science, conducted by Academic Staff College, University of Madras from 27.01.1998 to 22.02.1998.
- iii) Short Term course TQM in Higher Education – UGC ASC University of Madras from 13.09.2010 to 17.09.2010.

Examiner

- i) Serving as examiner for M.Phil. programme for Bharathidasan University, Trichy, Presidency College (Autonomous), Queen Mary's College (Autonomous), Madras Christian College (Autonomous).
- ii) Serving as P.G. and U.G. examiner for University of Madras.
- iii) Serving as question paper setter and examiner for the following Colleges.
 - a) Stella Maris College
 - b) Meenakshi College
 - c) Women's Christian College
 - d) Presidency College
 - e) New College
 - f) SDNB Vaishnav College for Women

- g) PSG Arts and Science College, Coimbatore
- h) Madras Christian College

Scientific and Related Activities

ALL India Radio: Contributed articles for popularization of science YEN? EPPADE? (Why?/How?) **Radio Serial Science Programme (more than 100 articles)**

Contributed articles about environment

Administrative Responsibilities held

1. Serving as Deputy Head of the Department of Physics from 11.08.2009 to till date.
2. Served as Deputy Warden of the Pachaiyappa's College Hostel from 10.11.1999 to 31.03.1991.
 - a. During my period as Deputy Warden, the mess rate was reduced as compared to earlier rate by Rs.6/- per day per student. The quality of the food was not compromised inspite of the decreased rate.
 - b. Strict discipline was maintained among the hostel students and many creative activities were conducted.
 - c. Presently (2009-2010), I was appointed as member of the Hostel Advisory Committee and looked after the administration of the hostel, and during this short tenure I have reduced the mess rate considerably.
3. Served as Director in Pachaiyappa's College Thrift Society.
4. Served as a member of various Committees to assist the administration of the College.
 - a. Students Welfare Committee
 - b. Discipline and Students Welfare Steering Committee
 - c. Hostel Advisory Committee
 - d. Convocation Committee
 - e. NAAC follow up Committee
 - f. Internal stock verification Committee
 - g. Internal Quality Assurance Cell (IQAC)

h. Sports Advisory Committee

Physics Association

Helped the Head of the Department to organize many functions and associated ably to release the Beats Magazine for the past 8 years.

- In the year 1993 – **13 cadets** Represented Republic Day parade at Delhi (15% of the TN, Pondicherry and Andaman Directorate)
- In the yr 1998 – **14 Cadets** represented RD parade at Delhi (16% of the TN, P, A. Directorate)
- Many of my cadets have joined the security forces in Airways, Police Dept. and in the Defence services.
- Nearly **15 blood donation** camps were organized during my tenure.
- Organised **cycle expedition** camp from Chennai to Chidambaram and back to promote National Integration.
- **Constructed the obstacle course** at the college in the year Feb.2003.
- Part B and C certificate examinations had been conducted effectively with pass of always about 95%.
- Organised Independence day celebration and NCC annual day function every year in my college.
- Orgnised **guard of Honour** for **VIPS** visiting the College.

**LIST OF M.PHIL DEGREES AWARDED THROUGH INSTITUTE
OF CORRESPONDENCE EDUCATION OF VARIOUS
UNIVERSITIES UNDER MY SUPERVISION**

Sl.No.	Name of the Candidate	Title of the Dissertation	Month & year of Submission	Name of the University
1.	S. Geetha	Synthesis, Growth and Characterization of L.Lysine Dehydrochloride (L-LyDHCl) Single Crystal –NLO Material	Aug 2007	Bharathidasan University
2.	S. Dhanalakshmi	Synthesis, Growth and Characterization of L-Alanine L-Arginine doped with triglycine sulphate	Aug.2007	Bharathidasan University
3.	P.G.Jayashree	Growth and Characterization of L.Glutamins doped triglycine sulphate	Aug.2007	Bharathidasan University
4.	T.Shanthini	Growth and Characterization of Sodium Maleate Single Crystal	Dec. 2007	Alagappa University
5.	M.Kavitha	Some studies on Amino acid based Non-linear Optical Crystal.	Dec.2007	Alagappa University
6.	D.Jessie Ebenezer	Some studies on Amino acid based non-linear optical crystal	Mar.2008	Alagappa University
7.	P.Karunanidhi	Crystal Growth and Characterization of pure and manganese Doped L-arginine phosphate more hydrate (LAP) by spectroscopic Analysis	April. 2008	Manonmaniam Sundaranar University
8.	J.Vidhya Shanthi	Growth and Characterization of Glycine Potassium nitrate	April 2009	Alagappa University

LIST OF CAMPS / COURSES / DUTIES ATTENDED IN NCC

Sl. No.	Date	Nature of the camp/ course/ duties	Remarks
1.	14.09.98 to 12.12.87	Pre commission course at NCC-OTS, Kamptee	Secured 3 rd position in the course "A" grading
2.	12.12.87	First Aid Training	St.John's Ambulance Association.
3.	19.04.88 to 30.04.88	CATC at Chennai	
4.	17.06.88 to 28.06.88	First Pre RDC at Pondicherry	
5.	27.04.89 to 08.05.89	CATC at Kasam	
6.	15.05.89 to 13.06.89	First refresher course at NCC-OTS, Kamptee	Secured 2 nd position in the course
7.	22.07.91 to 31.07.91	Parasailing cadre at Chennai, OTA	
8.	14.09.92 to 25.09.92	BLC launch camp at Kovaipudur	Camp adjudant
9.	08.12.92 to 22.12.92	Army attachment camp MRC Wellington	
10	02.05.94 to 13.05.94	CATC at RedHills	Camp adjudant
11.	12.09.94 to 11.01.94	Refresher course II at NCC-OTS, Kamptee	
12.	04.02.96 to 15.02.96	NIC camp at Pune	T.N.Contigent commander. Contigent adjudged 1 st in drill and cultural
13.	16.02.96 to 30.12.96	Army attachment camp AOC at Secundrabad	
14.	23.12.97 to 01.01.98	CATC cum RDC launch camp at Triveni Academy	

Dr.P.Murugakoothan, Assistant Professor of Physics

List of Publications in International / National Journals / Books Published

1. Growth of YBCO and NBCO Single crystals
P.S.Kumar, R.Jayavel, **P. Murugakoothan**, C.R.V. Rao, C.Subramanian and P.Ramasamy, Mod. Phy. Lett. B, 4 (1990) 1289.
2. Preparation and Characterisation of BiSrCaCuO through glassy route
R.Jayavel, **P. Murugakoothan**, C.R.V.Rao, C.Subramanian, P.Ramasamy, A.Chakravarthi, R.Ranganathan and A.K.Roy Chaudhuri, Solid State Comm. 79 (1991) 421.
3. Growth and Characterisation of $\text{Bi}_2\text{Sr}_2\text{CaCu}_{2-x}\text{Ni}_x\text{O}_y$ single crystals
P. Murugakoothan, R.Jayavel, C.R.V.Rao, C.Subramanian and P.Ramasamy, Mod. Phy. Lett. B, 5 (1991) 1989.
4. Growth and morphology studies of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ single crystals
R.Jayavel, **P. Murugakoothan**, C.R.V.Rao, C.Subramanian and P.Ramasamy, Mat. Res. Bull., 26 (1991) 945.
5. Superconductivity and morphology studies on of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ single crystals grown by stoichiometric and non-stoichiometric melts
R.Jayavel, **P. Murugakoothan**, C.R.V.Rao, C.Subramanian, P.Ramasamy, BV.Kumarasamy and A.V.Narlikar, Bull. Mat. Sci., 14 (1991) 1343.
6. Growth and characterization of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ by floating zone method
P. Murugakoothan, R.Jayavel, C.R.V.Rao, C.Subramanian and P.Ramasamy, Mat. Chem. Phy., 31 (1992) 281.
7. Textured growth and orientation dependence of hardness measurements on superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$
P. Murugakoothan, R.Jayavel, C.R.V.Rao, C.Subramanian and P.Ramasamy, J. Mat. Sci. Lett., 11 (1992) 1650.
8. Crystal growth of high temperature superconductors
R.Jayavel, **P. Murugakoothan**, C.R.V.Rao, C.Subramanian and P.Ramasamy, Ind. J. Pure and Appl. Phys., 30 (1992) 502.

9. Growth, characterization and superconductivity studies on $\text{CaLaBaCu}_3\text{O}_{7-x}$ single crystals C.R.V.Rao, **P. Murugakoothan**, R.Jayavel, C.Subramanian and P.Ramasamy, J. Mat. Sci. Lett., 11 (1992) 145.
10. Growth of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ single crystals using K_2CO_3 flux R.Jayavel, **P. Murugakoothan**, C.R.V.Rao, C.Subramanian and P.Ramasamy, Supercond. Sci. Tech., 6 (1993) 349.
11. Growth of $\text{CaLnBaCu}_3\text{O}_{7-x}$ (Ln = La, Pr & Nd) single crystals by flux technique C.R.V.Rao, **P. Murugakoothan**, R.Jayavel, C.Subramanian and P.Ramasamy, Supercond. Sci. Tech., 6 (1993) 443.
12. Growth of large size single crystals and whiskers of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ by step cooling method R.Jayavel, C.Sekar, **P. Murugakoothan**, C.Subramanian and P.Ramasamy, J. Crystal Growth 131 (1993) 105.
13. Growth, twin and domain structure studies on superconducting $\text{Bi}_2\text{Sr}_2\text{Ca}_{1-x}\text{Y}_x\text{Cu}_2\text{O}_8$ single crystals R.Jayavel, A.Thamizhavel, **P. Murugakoothan**, C.Subramanian and P.Ramasamy, Physica C, 215 (1993) 429.
14. Growth and characterization of bulk textured $\text{Bi}_2\text{Sr}_2\text{Ca}_{1-x}\text{Y}_x\text{Cu}_2\text{O}_8$ by the floating zone technique **P. Murugakoothan**, R.Jayavel, C.R.V.Rao, C.Subramanian and P.Ramasamy, Supercond. Sci. Tech., 7 (1994) 367.
15. Growth of large twin free $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ single crystals by a temperature gradient technique R.Jayavel, A.Thamizhavel, **P. Murugakoothan**, C.R.V. Rao, C.Subramanian and P.Ramasamy, J. Crystal Growth, 137 (1994) 273.
16. Synthesis and characterization of bulk textured phases in Bi(Pb)SrCaCuO system **P. Murugakoothan**, R.Jayavel and C.Subramanian, Cryst. Res. Tech., 30 (1995) 587.
17. Habit modification of KAP single crystals by the influence of NLO impurities **P. Murugakoothan**, R.Mohan Kumar, P.S.Ushasree, R.Jayavel, R.Dhanasekaran and P.Ramasamy, J. Crystal Growth, 207 (1999) 325.
18. Studies on the growth aspects of $\text{Eu}_{1.4}\text{Ce}_{0.6}\text{NbSr}_2\text{Cu}_2\text{O}_{10-\delta}$ superconducting single crystals E. Srinivasan, S.Uthayakumar, **P. Murugakoothan**, R.Jayavel, C.Subramanian and P.Ramasamy, Physica C. 341-348 (2000) 547.

19. Comparison between pure and deuterated potassium acid phthalate (DKDP) single crystals R. Mohan Kumar, D. Rajan Babu, **P. Murugakoothan** and R. Jayavel, J. Crystal Growth, 245 (2002) 297.
20. Growth and characterization of Tris Allylthiourea Mercuric Chloride (ATMC) crystals R. Siddheswaran, R. Sankar, M. Rathnakumari, R. Jayavel, **P. Murugakoothan** and P. Sureshkumar, Cryst. Res. Tech., 41 (2006) 771 – 774.
21. Preparation and characterization of ZnO nano fibers by electrospinning R. Siddheswaran, R. Sankar, M. Ramesh Babu, M. Rathnakumari, R. Jayavel, **P. Murugakoothan** and P. Sureshkumar, Cryst. Res. Tech., 41 (2006) 446 - 449.
22. Nucleation growth and characterization studies of a nonlinear optical crystal tris allylthiourea cadmium chloride (ATCC) R. Siddheswaran, R. Sankar, M. Rathnakumari, R. Jayavel, **P. Murugakoothan** and P. Sureshkumar, Laser Phys. Lett., 3 (2006) 588 - 593.
23. Growth and characterization of a new semi-organic non-linear optical crystal L-Arginine Hydrochlorofluoride monohydrate (LAHCIF) R. Siddheswaran, R. Sankar, M. Rathnakumari, R. Jayavel, **P. Murugakoothan** and P. Sureshkumar, Surface Review Letters, 13 (2006) 803 – 808.
24. Investigation on the nucleation kinetics of antiferroelectric ADP admixed ferroelectric TGS crystals T. Balu, T. R. Rajasekaran, N. P. Rajesh and **P. Murugakoothan**, Mat. Lett. 61 (2007) 4824-4827.
25. Synthesis, Growth and Characterization of L-Proline Cadmium Chloride Monohydrate (L-PCCM) Crystals : A New Nonlinear Optical Material, A. Kandasamy, R. Siddeswaran, **P. Murugakoothan**, P. Sureshkumar and R. Mohan, Crystal Growth & Design, 7 (2007) 183 – 186.
26. Growth and characterization of semiorganic nonlinear optical rubidium bis-DL-malato borate single crystals, D. Balasubramanian, R. Sankar, V. Siva Shankar, **P. Murugakoothan**, P. Arulmozhihelvan, R. Jayavel, Mat. Chem. Phys. 107 (2008) 57 – 60.
27. Growth and characterization of tetra L-lysine alanine mono hydrochloride dihydrate (TLAMHCl), a new semiorganic nonlinear optical single crystal, V. Siva Shankar, R. Sankar, R. Siddheswaran, R. Jayavel, **P. Murugakoothan**, Mat. Chem. Phys. 109 (2008) 119 – 124.

28. Growth and Characterization of new semiorganic nonlinear optical single crystal L-Phenylalanine L-Phenylalaninium perchlorate (LPPAPC),
V. Siva Shankar, R. Siddheswaran, R. Sankar, R. Jayavel, **P. Murugakoothan**, Mat. Letts. 63 (2009) 363 – 365.
29. Studies on the growth, structural, optical and mechanical properties of ADP admixed TGS crystals T. Balu, T. R. Rajasekaran and **P. Murugakoothan**
Current Applied Physics 9 (2009) 435-440.
30. Nucleation studies of ZTC doped with L-arginine in supersaturated aqueous solutions T. Balu, T. R. Rajasekaran and **P. Murugakoothan**
Physica B 404 (2009) 1813-1818.
31. Growth and Characterization of admixed TGS single crystals,
T. Bharthasarathi, V. Siva Shankar, R. Jayavel, **P. Murugakoothan**, J. Crystal Growth, 311 (2009) 1147 – 1151.
32. Studies on solution grown L-Cysteine Hydrochloride Monohydrate single crystals
M. Loganayagi, R. Siddheswaran, V. Sivashankar, T. Bharthasarathi, **P. Murugakoothan**
Int. J. Mat. Sciences, 4 (2009) 133 – 142.
33. Synthesis and growth of sodium bitartrate monohydrate a new organometallic nonlinear optical single crystals, V. Siva Shankar, R. Siddheswaran, R. Sankar, R. Jayavel, **P. Murugakoothan**, Current Appl. Phys. 9 (2009) 1125-1128.
34. Growth and characterization of new semi organic nonlinear optical Zinc Guanidinium Sulfate single crystal V. Siva Shankar, R. Siddheswaran, T. Bharthasarathi, **P. Murugakoothan**, J. Crystal Growth, 311 (2009) 2709-2713.
35. Growth, spectral, optical and thermal characterization of new metallorganic crystal – bithiourea nickel chloride, C. Ramachandraraja, A. Antony Joseph, R. S. Sundararajan, V. Siva Shankar, **P. Murugakoothan**, Spectrochimica Acta Part A 74 (2009) 1005–1009.
36. Studies on Growth and Properties of L-Tyrosine Hydrochloride (LTHCL) Crystal
R. Siddheswaran, V. Siva Shankar, R. Jayavel, **P. Murugakoothan**, Int. J. Mat. Science 4 (2009) 205 – 213.

37. Synthesis, growth and characterization of bis (glycine) lithium molybdate – a semiorganic NLO material T. Balu, T. R. Rajasekaran and **P. Murugakoothan** *Spectrochimica Acta Part A*, 74 (2009) 955–958
38. Studies on the growth aspects of organic L-alanine maleate : a promising nonlinear optical crystal D. Balasubramanian, R. Jayavel, **P. Murugakoothan** *Natural Science* 1 (2009) 216 – 221.
39. Synthesis, growth and characterization of organic nonlinear optical bis-glycine maleate (BGM) single crystals D. Balasubramanian, **P. Murugakoothan**, R. Jayavel *J. Crystal Growth* 312 (2010) 1855–1859
40. Crystal growth, thermal and optical studies on a metalorganic nonlinear optical material for dipotassium boro maleate (DKBM) T. Bharthasarathi, P. Arulmozhihelvan, **P. Murugakoothan**, *Materials Letters* 64 (2010) 1506-1509.
41. Studies on the effect of L-Glutamine on morphology, structure, optical, mechanical and electrical properties of TGS crystal T. Bharthasarathi, O. P. Thakur, **P. Murugakoothan**, *Physica B: Physics of Condensed Matter* 405 (2010), 3943-3948.
42. Biosynthesis and Characterization of Gold Nanoparticles using the Alga *Kappaphycus alvarezii* P. Rajasulochana, R. Dhamotharan, **P. Murugakoothan**, S. Murugesan, P. Krishnamoorthy, *Int. J. Nanoscience* 9 (2010) 511-515.
43. Synthesis, growth, structural, optical and thermal properties of a new semi organic nonlinear optical guanidinium perchlorate single crystal, V. Siva Shankar and **P. Murugakoothan**, *Mat. Chem. Phys.* 130 (2011) 323– 326.
44. Studies on solution grown L-Cysteine Hydrochloride Monohydrate single crystals M.Loganayagi , R.Siddheswaran, V.Sivashankar, T.Bharthasarathi and **P.Murugakoothan** in *International Journal of Material Science*, 4(6) (2009), 697 – 706.
45. Synthesis and characterization of L-Phenylalaninium trichloroacetate hemihydrates (PACAH) single crystals M.Loganayagi, **P.Murugakoothan** in *Journal of optoelectronics and advanced materials - Rapid Communications*, 5 (2011) 577-

46. Studies on Optical and Mechanical Properties of new Organic NLO Crystal:
Guanidinium 4-aminobenzoate (GuAB), T. Arumanayagam, **P. Murugakoothan** in Materials Letters 65 (2011) 2748–2750.
47. Growth and Characterization of Guanidinium Trifluoroacetate – Second Harmonic Generation from a Centrosymmetric Crystal M. Loganayaki , V. Siva shankar , P. Ramesh , M.N. Ponnuswamy and **P. Murugakoothan** in Journal of Minerals and Materials Characterization and Engineering – Accepted.
48. Studies On Dielectric And Ferroelectric Behavior Of L-Alanine Single Crystal M.Loganayaki , **P.Murugakoothan** in Asian Journal of Chemistry 23(11) (2011), 5089-5091.
49. Studies on the Effect of Ni^{2+} on Growth, Structural Morphology and Dielectric properties of L-Valinium Picrate K. Russel Raj, **P. Murugakoothan**, Nonlinear Optics and Quantum Optics Vol. (xxx) (2011) 1 – 12.
50. Growth, structural and dielectric behaviour of L-Cysteine hydrochloride monohydrate single crystals M.Loganayaki , **P.Murugakoothan** in Asian Journal of Chemistry- Accepted.
51. Band gap Engineering and tuning the dielectric properties of guanidinium single crystal by aromatic acids for nonlinear applications, T. Arumanayagam, **P. Murugakoothan**, Nonlinear Optics Quantum Optics, Vol. (xxx) (2011) 1 – 9 (In Press)
52. Studies on the Optical and Mechanical properties of non-linear Optical 3-aminophenol Orthophosphoric acid (3-amphph) single crystal K. Russel Raj, **P. Murugakoothan**, Optik Vol. (xxx) (2011) 1 - 12 (In Press)
53. Studies on the Effect of Ba^{2+} on Growth, structural, Morphology, Optical, and Mechanical properties of L-Valinium Picrate K. Russel Raj, **P. Murugakoothan**, Journal of Minerals & Materials Characterization & Engineering Vol. (xxx) (2011) 1 - 12. (In Press)
54. Growth and investigations on the nucleation kinetics of zinc succinate NLO single crystals M.Loganayaki , T.Bharthasarathi and **P.Murugakoothan** in International Journal of Chemtech Research –Accepted.

Articles in Edited Books/Proceedings.

1. Infrared studies on flux grown LSCO single crystals.
R.Jayavel, **P. Murugakoothan**, P.Sureshkumar, C. Subramanian and P.Ramasamy, Proc. VI-NSFD Ed.Lalitha Sirdesmukh, Kakatiya University, Warangal (1990) 151.
2. Single Crystal growth of Ni substituted $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$
P. Murugakoothan, R.Jayavel, P.Sureshkumar, C. Subramanian and P. Ramasamy, Proc. VI-NSFD Ed.Lalitha Sirdesmukh Kakatiya University, Warangal (1990) 152
3. Resistivity Studies on Bi-Sr-Ca-Cu-O
C.R.V.Rao, P.Sureshkumar, R.Jayavel, **P. Murugakoothan**, C. Subramanian and P. Ramasamy, Proc. VI-NSFD Ed.Lalitha Sirdesmukh Kakatiya University, Warangal (1990) 152.
4. Growth of textured Bi-Sr-Ca-Cu-O by travelling solvent floating zone method
P. Murugakoothan, R. Jayavel, C.R.V. Rao, C. Subramanian and P. Ramasamy, Proc. International workshop on superconductivity, ISTEK, Japan (1992), 336.
5. Stoichiometric and Substitutional effects in flux grown BSCCO single crystals
R. Jayavel, **P. Murugakoothan**, C.R.V. Rao, C. Subramanian and P. Ramasamy, Proc.International workshop on superconductivity, ISTEK, Japan (1992), 151.
6. Synthesis of $\text{Pb}_2\text{Sr}_2\text{M}_{1-x}\text{Ca}_x\text{Cu}_3\text{O}_8$ ($\text{M} = \text{Y}, \text{Dy}, \text{Yb}$) and $\text{Pb}_2\text{Ba}_2\text{MCu}_3\text{O}_8$ single crystals
C.R.V. Rao, **P. Murugakoothan**, R. Jayavel, C. Subramanian and P. Ramasamy, Proc.International workshop on superconductivity, ISTEK, Japan (1992), 324.
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R. Jayavel, **P. Murugakoothan**, C.R.V. Rao, C. Subramanian and P. Ramasamy, Proc.International workshop on superconductivity, IIT, Madras (1992) 8.
8. Grain alignment and anisotropy resistivity studies of floating zone grown textured $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$.

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9. Effect of homogenization on superconductivity, microstructural and mechanical properties of TSFZ grown BSCCO.

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10. Growth and characterization of bulk textured BSCCO by TSFZ method

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11. Growth of superconducting $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_{4-y}$ single crystal

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12. Vicker's Micro-indentation studies on textured $\text{Bi}_2\text{Sr}_2\text{Ca}_{1-x}\text{Y}_x\text{Cu}_2\text{O}_8$

P. Murugakoothan, S. Sivasankaran and K. Sadaiyandi, Proc. VII National Seminar on Crystal Growth, Karaikudi (1997) 271.

13. Metastable zonewidth, induction period and interfacial energy of 4-dimethylamino-N-methyl-4-stilbazolium tosylate (DAST) crystals.

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14. Growth and characterization of tri allyl thiourea cadmium chloride single crystals

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R. Siddheswaran, R. Sankar, M. Rathnakumari, P. Murugakoothan, P. Sureshkumar and R. Jayavel, The 3rd Asian Conference on Crystal Growth and Crystal Technology (CGCT-3) 16-19 Oct. 2005, Beijing China.

17. Nucleation Kinetics and Growth of ADP doped TGS Crystals
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18. Structural, Optical and Electrical Properties of Antiferroelectric ADP Admixture Ferroelectric TGS Crystals
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21. Experimental determination of metastable zonewidth, induction period, interfacial energy and growth of EDTA doped ZTS crystals
T. Balu, T. R. Rajasekaran, R. Mohan, P. Murugakoothan, Proc. National Seminar on Advances in Materials Science, Feb. 4-5, 2008, Dept. of Physics, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli, Tamil Nadu, India.
22. Extracellular Biosynthesis of Silver Nanoparticles using the Alga *Gracilaria Edulis*
S. Murugesan, R. Dhamotharan, P. Murugakoothan, Proc. of the National Seminar cum Workshop on Nanomedicines – 3rd and 4th March 2010 – Research Centre of Botany and Microbiology, Lady Doak College, Madurai, Tamil Nadu, India.
23. Marine Alga (*Gelidiella Acerosa*) Mediated Biosynthesis of Gold Nanoparticles
S. Murugesan, R. Dhamotharan, P. Murugakoothan, Proc. of the National Seminar cum Workshop on Nanomedicines – 3rd and 4th March 2010 – Research Centre of Botany and Microbiology, Lady Doak College, Madurai, Tamil Nadu, India.
24. Stabilized Growth of Barium Nitrate Crystal by Increasing the Ostwald-Mier's Region

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25. Growth and Characterization of Urea Ammonium diphosphate

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26. New Nonlinear Optical Material : L-Alanine Hydrogen Chloride Monohydrate (L-AIHC1) Single Crystal

T. Bharthasarathi, K. Russel Raj, T. Arumanayagam, A. Suvitha, P. Murugakoothan, Proc. of the 14th National Seminar on Crystal Growth – March 10 – 12, 2010 – Organised by School of Advanced Science, VIT University, Vellore, Tamil Nadu, India.

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28. Ferroelectric properties of L-Phenylalaninium Trichloroacetate Hemihydrate Single Crystals

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29. Studies on the Effect of EDTA and H₂O₂ on the Growth and Properties of Barium Nitrate Crystal

T. Bharthasarathi, P. Arulmozhichelvan, P. Murugakoothan, Proc. of the National Conference on Recent Advances in Crystal Growth and Nanoscience – 26th & 27th March, 2010 – Organised by the Dept. of Physics, School of Science and Humanities, Kongu Engineering College, Perundurai, Erode – 638 052, Tamil Nadu, India – **Invited Talk**.

30. Growth and Characterization of 3-Aminophenol Orthophosphate acid and Phosphorous acid

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31. Growth and Characterization of Urea Phosphate Diammonium Sulphate

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33. Optical and Thermal properties of New Semiorganic NLO Material : Urea Phosphate (UP)

T. Arumanayagam, P. Murugakoothan, Proc. of the ICCG-16 / ICVGE-14 – 8 – 13 August, 2010 – Organised by the Chinese Association for Crystal Growth at Beijing, China.

34. Effect of Cobalt on the Morphology, Structural, Optical, Thermal, Electric and Mechanical Properties of Potential Nonlinear Optical L-Asperaginium Picrate Crystal

K. Russel Raj, R. Jayavel, P. Murugakoothan, Proc. of the ICCG-16 / ICVGE-14 – 8 – 13 August, 2010 – Organised by the Chinese Association for Crystal Growth at Beijing, China.

35. Thermal, Mechanical, Electrical, Optical Properties of Nonlinear Optical Zinc Guanidinium Phosphate Single Crystal

A. Suvitha, R. Mohan Kumar, P. Murugakoothan, Proc. of the ICCG-16 / ICVGE-14 – 8 – 13 August, 2010 – Organised by the Chinese Association for Crystal Growth at Beijing, China.

36. Studies on the Ferroelectric behavior of L-Alanine Single Crystal

M. Loganayagi, R. Mohan Kumar, P. Murugakoothan, Proc. of the ICCG-16 / ICVGE-14 – 8 – 13 August, 2010 – Organised by the Chinese Association for Crystal Growth at Beijing, China.

37. Studies on Semiorganic Nonlinear Optical ATMX Family Crystals
P. Murugakoothan, Proc. of the XV National Seminar on Crystal Growth, Organized by Centre for Scientific and Applied Research, School of Basic Engineering and Sciences, PSN College of Engineering and Technology, Melathediyoore, Tirunelveli – 627 152, Tamil Nadu, India during 23 – 25 February, 2011 – **Invited Talk**.
38. Studies on Growth, Mechanical and Electrical Properties of New Organic NLO Crystal : Guanidinium 4-Aminobenzoate
T. Arumanayagam, P. Murugakoothan, Proc. of the XV National Seminar on Crystal Growth, Organized by Centre for Scientific and Applied Research, School of Basic Engineering and Sciences, PSN College of Engineering and Technology, Melathediyoore, Tirunelveli – 627 152, Tamil Nadu, India during 23 – 25 February, 2011.
39. Spectroscopic and Dielectric Studies of New Nonlinear Optical Single Crystals : 3-Aminophenol Orthophosphoric Acid (3-amphph)
K. Russel Raj, P. Murugakoothan, Proc. of the XV National Seminar on Crystal Growth, Organized by Centre for Scientific and Applied Research, School of Basic Engineering and Sciences, PSN College of Engineering and Technology, Melathediyoore, Tirunelveli – 627 152, Tamil Nadu, India during 23 – 25 February, 2011.

Books Published :

1. Engineering Practical Physics
Chendur Publications, Tiruchendur, India, 1997.
P. Murugakoothan, S.Sivasankaran and K.Sadaiyandi
2. Applied Physics for Engineers
Chendur Publications, Tiruchendur, India, 2000.
P. Murugakoothan, S.Sivasankaran and K.Sadaiyandi
3. Engineering Physics
Chendur Publications, Tiruchendur, India, 2002.
P. Murugakoothan, S.Sivasankaran and K.Sadaiyandi
4. Applied Physics (For Diploma Engineers)

VRB Publishers Pvt. Ltd. India, 2004

P. Arulmozhichelvan, **P. Murugakoothan** and P. Karunanidhi

5. Payanpattu Iyerbial [Tamil version of Applied Physics (For Diploma Engineers)]

VRB Publishers Pvt. Ltd. India, 2004

P. Murugakoothan, P. Arulmozhichelvan, and P. Karunanidhi

List of Ph. D. Students

S. No.	Name of the Candidate	Title of the Thesis	Status
1.	D. Balasubramanian	"Nucleation Kinetics, Growth and Characterization of Nonlinear Optical L-Alanine Maleate , Bis Glycine Maleate and Rubidium Bis – DL Malato Borate Single Crystals"	Degree Awarded Mar. 2009
2.	R. Siddheswaran	"Investigations on the Growth and Characterization of Nonlinear Optical Crystals: ATCC, ATMC, LAHCIF, LTHCI, and LPP"	Degree Awarded Jan. 2010
3.	T. Balu	"Investigation on the Nucleation, Growth and Characterization of Some Nonlinear Optical and Ferroelectric Single Crystals"	Degree Awarded Mar. 2010
4.	V. Siva Shankar	"Studies on Synthesis, Growth and Characterization of Semiorganic Nonlinear Optical LPPAPC, LOH, SBTMH, ZGuS and GPCI Single Crystals"	Degree Awarded Jul. 2010
5.	M. Loganayaki	"Investigations on the Growth and Characterization of Some Nonlinear Optical and Ferroelectric Crystals"	Synopsis Submitted Sep. 2011

6.	T. Bharthasarathi	"Studies on Some Nonlinear Optical Crystals Ba(NO ₃) ₂ , DKBM, L- AlHCl and the Effect of Amino acids on TGS Crystal"	Thesis Submitted Jul. 2010
7.	T. Arumanayagam	"Investigation on Nonlinear Optical Guanidinium Based Single Crystals"	Synopsis Submitted Oct. 2011
8.	K. Russel Raj	"Investigations on the Growth and Characterization of Some Technologically Important Nonlinear Optical Crystals"	Synopsis Submitted Oct. 2011
In addition 8 more students are working for their Ph. D. under my guidance.			

Ph. D., Thesis Evaluated / Viva-Voce Conducted

S. No.	Name of the Candidate	Institution and University	Thesis Evaluation / Viva – Voce Conducted
1.	S. Mahalakshmi	Arubadai Vedu Institute of Technology, Vinayaka Missions University, Payanoor, Chennai.	August 2010 (Viva- Voce Conducted)
2.	Venkat Subramaniam	P. S. G. College of Arts and Science, Bharathiar University, Coimbatore.	June 2011 (Viva- Voce Conducted)
3.	T. Ramesh	M. I. E. T Arts and Science College, Bharathidasan University, Tiruchirappalli.	July 2011 (Viva- Voce Conducted)

d) Course materials (for Distance Education)

Almost all the staff members are authoring the course materials for Distance Education for many Universities.

e) Software packages or other learning materials-

Tally, C++, Java, Visual Basic, Visual Studio 6, Borland C++, Dream Viewer Flash, Oracle, SQL server, Visual Studio.net, Windows XP, Windows 2000, LINUX, MS Office

f) Any other (specify) – -Nil-

3.3 Consultancy

3.3.1 List the broad areas of consultancy services provided by the Institution during the last five years (free of cost and/or remunerative). Who are the beneficiaries of such consultancy?

At the very outset, let us put it here very frankly that the consultancy services provided by the institution are quite free of cost, the aims and objectives being all but charitable and for upliftment of the needy and spread of education. The consultancy services provided by this College ably and effectively.

3.3.2 How does the institution publicize the expertise available for consultancy services?

It is the well known fact that the Pachaiyappa's College, Chennai has produced galaxy of alumni who are occupying very high positions in society and this Institution is functioning as nodal agency to provide consultancy not only in the field of education but also in the community welfare and social service activities. Variety of academic programmes, intellectual meetings, group discussion, seminars, symposia have been conducted by the departments of the College and eminent Yoga masters have conducted mega camps in the College campus. The College is icon in the South Asia and everybody knows about the erudition and reputation of the College.

3.3.3 How does the institution reward the staff for the consultation provided by them?

As this institution being a non-minority category getting Government grant-in-aid catering to the educational need of disadvantage and deprived sections of society, the faculties are doing it honorarily. The faculties who are the eminent scholars in their respective subjects are doing the consultation to the students and their community for social upliftment nature. The faculties are being rewarded by the recognized

Universities and various autonomous and non-autonomous institutions are engaging their services in the appropriate forum which designs the curricula and syllabi for various academic programmes.

3.3.4 How does the institution utilize the revenue generated through consultancy services?

The institution generates no revenue from this consultancy work.

3.4 Extension Activities

3.4.1 How does the institution promote the participation of students and faculty in extension activities? (NSS, NCC, YRC and other NGOs)

The College has enviable record in having 5 NSS Units, 4 wings of NCC viz. Armoured, Battalion, Airwing and Navy with the enrolment of more than 750 students and various social service activities are being carried out effectively with the co-operation of local public and the Police under the Friends of Police scheme.

Special camps are being carried out by the NSS and NCC units for Blood donation, Free dental screening, Eye screening, Blood grouping to create awareness among the villagers about the highly infectious diseases.

The YRC is also playing a vital role in association with said NSS and NCC for public welfare activities.

The College has organized mega blood donation camps through the NSS, NCC and YRC of the College. Our NSS volunteers have brought laurels to the College by participating various programmes including cultural activities at the Inter-collegiate, Inter-University, state and at National levels. Our NSS Programme Officers have bagged the Best Programme Officer Award for several years. It is pertinent to state that the NCC cadets of the College are participating in RDC and Independence Day Parade at the State Head Quarters and the New Delhi.

3.4.2 What are the outreach programmes organized by the institution? How are they integrated with the academic curricula?

In addition to the notable services of the NSS/NCC and YRC, our Physical Education Department is providing good opportunities to the Sportsmen and Athletes in various sports/games activities at the Inter-collegiate, Inter-University, state and at National levels. Some of our College students are playing for our nation in the Cricket Team and Hockey team. The College has three big playgrounds for the usage of students for various sports/games activities.

3.4.3 How does the institution promote college-neighbourhood network in which students acquire attitude for service and training, contributive to community development?

In association with the local service organizations and the Police, our students are doing Yeoman service such as Traffic clearance, Hospital service, Temple service, Railway service and other tasks which necessitate the contribution of the students to the Public. The neighbours of the College are using sprawling campus of the College for their morning walking and jogging and enjoying the benefits of the rare species available. Through this service the college has contact with various agencies, industrialists, businessmen and other VIPs. And they are doing various services to the College for the welfare of the students.

3.4.4 What are the initiatives taken by the institution to have a partnership with University / Research institutions / Industries / NGOs etc. for extension activities?

These all extension activities are conducted independently and sometimes in collaboration with other educational and social institutions.

3.4.5 How has the local community benefited by the institution? (Contribution of the institution through various extension activities, outreach programmes, partnering with NGOs and GOs)

CONTRIBUTIONS TO THE LOCAL COMMUNITY THROUGH THE EXTENSION ACTIVITIES:-

a) NSS:-

The village folk being backward, illiterate and unaware of new approaches to various areas in life, our NSS unit has been extending every year its vigorous services to do away with the drawbacks and shortcomings by arranging the required programmes – not only this but our campers themselves have worked in those villages and planted trees, dug soak pits, built water conservation bandhs and roads. The NSS unit has succeeded in creating new awarenesses as regards agriculture, health, superstitions, education are concerned. Through the NSS special camps, the motto of which was STRONG YOUTH FOR PROSPEROUS INDIA, our college unit has worked strenuously for changing the village life-style by cutting the useless shrubs on the road and by building new roads.

b) NCC:-

The NCC has every year conducted 'B' certificate and 'C' certificate exams. Our NCC cadets have rendered their services in maintaining peace and discipline as home-guards in various public places. They are enthusiastically participating in the Independence Day and RDC parades in State and Central head quarters and brought laurels to the College.

c) Cultural programmes:-

The cultural wing in the NSS wings of the College has been doing variety of cultural programmes at various levels showing their ability in keeping ever green memories of our traditional folk and through the street plays various awareness programmes are being carried out in an excellent manner for which they have brought laurels to the College and bagged individual awards also.

3.4.6 How has the institution involved the community in its extension activities? (Community participation in institutional development, institution-community networking etc.)

Community (society) service is one of our aims of our educational Society. We plan and execute various programmes for community awareness. We try to educate the community to get rid of the prominent social evils—we try to direct the rural community to make progress by inviting experts to guide them as regards water conservation, tree plantation, blood donation, education, agricultural techniques and bad-beliefs. This can be vouched by the village leaders, community members are other VIPs who are involving in various social services activities. We also involve parents, and alumni as regards the community work is concerned. Apart from the NSS, NCC and Cultural Activities we arrange special programmes for community upliftment.

3.4.7 Any awards or recognition received by the faculty / students / Institution for the extension activities?

Dr.T.Sekar, Assistant Professor of Botany has bagged the following awards.

- Awarded **Best Programme Officer** by the University of Madras 2004-05.
- Awarded **Outstanding Programme Officer** "Agnisiragugal" rolling trophy instituted by Dr. P. Maghalingam, Former NSS Co-ordinator, University of Madras, 2004-05.
- Awarded **Best Programme Officer** State NSS award by Ministry of Sports & Youth Govt. of Tamil Nadu, 2005-06.
- Mega Project Award 2011 was awarded by the University of Madras

3.5 Collaborations

3.5.1 Give details of the collaborative activities of the institution with the following organizations:

As regards consultancy and extension services and as we have already referred to in point number 3.4.3 here are, the details of the collaborative activities of our institution in relation to the following organizations-

(a) Local Bodies:-

Chennai Corporation

Friends of Police

Rotary Clubs

Conservator of Forests

Heritage Department

(b) Community (NGOs):-

We have constant and continuous relations as regards consultancy and extension services are concerned with the following community bodies:

Rotary Club

Kilpauk Medical College Hospital

University of Madras

Academic agencies

Our staff and students support, participate and collaborate with the above mentioned NGOs as regards socially and educationally oriented programmes and creation of various awarenesses are concerned.

(c) State:-

Special camping programmes are being carried in the neighbouring districtis with the funds provided by the University of Madras for the social upliftment. During the camps, the following programmes have been carried out.

Soak Pits

Tree plantation

Medical check-up and distribution of medicines iv) Sanitary compaign

Construction of toilets

Drainage canals

Social awareness programmes

Cultural programmes

Blood Donation Camp

Dental camp

Eye Screening Camp

Night Schools

(d) Industries :-

Our students are being deputed to various industries for data collection and to facilitate them to chose some area for submission of thesis and synopsis.

3.5.2 How has the institution benefited from the collaboration?

(a) Curriculum development

(b) Internship

(c) On-the-job training

(d) Faculty exchange and development

(e) Research

(f) Consultancy

(g) Extension

(h) Publication

(i) Student Placement

We have been working hard for our students getting benefitted from the above mentioned bodies in various respects—intentionally we arrange programmes which help our students in the personality development area. The invited lecturers and guests add to the knowledge and experiences of our students. The extension services conducted surely benefit the students in all respects, particularly the areas of

knowledge and social awareness. Our career and counseling cell has this year, successfully arranged campus interviews by various concerns.

3.5.3 Does the institution have any MoU/MoC / mutually beneficial agreements signed with Other academic institutions, Industry, Other agencies.

No, Please.

3.6 Best Practices in Research, Consultancy and Extension

3.6.1 What are the significant innovations / good practices in Research, Consultancy and Extension activities of the institution?

The lofty intentions of our Trust is for the development and building up of society and our nation. Our authorities of fully democratic attitude and devoted social workers, they basically and firmly adhere to the principles of the best practices as regards all the criteria laid down for the excellence and quality enhancement.

The foregoing paragraphs have clearly states the significant innovations and practical in research / consultancy and extension activities of our institution.

For Re-accreditation:

The same assessment framework will be used. However, additional information has to be provided for the following probes:

1. What were the evaluative observations made under Research, Consultancy and Extension in the previous assessment report and how have they been acted upon?

The development of research culture in our college is paid attention to—teachers are encouraged to publish their research papers through state, national and international journals. Teachers are given freedom to attend seminars and conferences in their respective disciplines.

Many of the teaching staff members are guiding research scholars leading to Ph.D. /M.Phil.

Projects are being carried out by the faculties periodically under various schmes offered by the UGC / DST / and other educational agencies.

Our NSS units are rendering services as regards association with the regional problems and making consultancies available to the rural people. The NSS unit extends its help with the co-operation of the management and other local units in the sectors like health and hygiene, agriculture, water conservation, sanitary cleanliness,

literacy and also helps the rural people in seeking government aids through the proper procedures.

The NSS unit in collaboration with the NCC unit undertake various surveys regarding their problems and short-comings and offer help and consultancies through government officials.

By dint of his philanthropic nature the institution, management authorities, Principal and the faculties are rendering yeoman service to the public with an intention to promote the society in all walks of life.

2. What are the other quality sustenance and enhancement measures undertaken by the institution since the previous Assessment and Accreditation with regard to Research, Consultancy and Extension?

As far as our activities are concerned, the first priority is given to as regards the sustenance and enhancement of quality, our student community. Creating awareness in various fields particularly the global warming and electricity / water preservation.

We would like to say that we have successfully conducted various conferences in various disciplines and intend to conduct various academic programmes and awareness programmes through the street plays of cultural teams for social upliftment.