

International Papers

1. Ignacimuthu, S., Ayyanar, M., Sankarasivaraman, K., 2008. Ethnobotanical study of medicinal plants used by Paliyar tribals in Theni District of Tamil Nadu, India. *Fitoterapia* 79, 562-568.
2. Raveendar, S., Premkumar, A., Sasikumar, S., Ignacimuthu, S. and Agastian, P., 2008. Development of rapid and efficient system of organogenesis in cowpea (*Vigna unguiculata*) Walp. *South African Journal of Botany*. Doi: 10.1016/j.Saijb. 2008.05.009.
3. Govindasamy Chandramohan, Savarimuthu Ignacimuthu and Kodukkur Viswanathan Pugalendi, 2008. A novel compound from *Casearia esculenta* (Roxb.) root and its effect on carbohydrate metabolism in streptozotocin-diabetic rats. *European J. Pharmacology*. Doi/J.Ejphar. 2008.02.082.
4. Duraipandiyan, V., Indwar, F. and Ignacimuthu, S., 2008. Antimicrobial activity of Confertifolin from *Polygonum hydropiper*. *Pharmaceutical Biol.* (Accepted).
5. Valan Arasu, M., Duraipandiyan, V., Agastian, P. and Ignacimuthu, S., 2008, Antimicrobial activity of *Streptomyces* spp. ERI-26 recovered from Western Ghats of Tamil Nadu, *J. de Mycologie Medicale*, 18, 147-153.
6. Raveendar, S., Premkumar, A., Ignacimuthu, S. and Agastian, P., 2008, Effect of sea water on callus induction and regeneration of rice genotypes, *Int. J. Integ. Biol.*, 3, 92-95.
7. Antony Ceasar, S. and Ignacimuthu, S., 2008, Efficient somatic embryogenesis and plant regeneration from shoot apex explants of different Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn.), *In vitro Cell. Dev. Biol. Plant*, DOI 10.1007/s11627-008-9153-y
8. Daisy, P., Jasmine, R., Ignacimuthu, S. and Murugan, E., 2008, A novel steroid¹ from *Elephantopus scaber* L. an Ethnomedicinal plant with antidiabetic activity, *Phytomedicine*, doi:10.1016/j.phymed.2008.06.001.
9. Balaraju, K., P. Agastian, P. Preetamraj, J.P., Arockiaraj, S. and Ignacimuthu, S., 2008, Micropropagation of *Vitex agnus-castus* (Verbenaceae)—a valuable medicinal plant, *In Vitro Cell Dev. Biol. Plant*, DOI: 10.1007/s11627-008-9155-9.
10. Dhanasekaran, M., Albert Baskar, A., Ignacimuthu, S., Agastian, P. and Duraipandiyan, V., 2008, Chemopreventive potential of Epoxy clerodane diterpene from *Tinospora cordifolia* against diethylnitrosamine-induced hepatocellular carcinoma, *Invest. New Drugs*, DOI 10.1007/s10637-008-9181-9.
11. Duraipandiyan, V., Ignacimuthu, S. and Valanarasu, M., 2008, Antibacterial and antifungal activity of *Syzygium lineare* Wall, *Int. J. Integ. Biol.*, 3(3), 159-162.
12. Eliza, J., Daisy, P., Ignacimuthu, S. and Duraipandian V., 2008, Normo-glycemic and hypolipidemic effect of costunolide isolated from *Costus speciosus* (Koen ex. Retz.) Sm. In streptozotocin induced diabetic rats. *Chemical Biol. Interact.*, doi.10.1016j.cbi.2008.10.017.
13. Balaraju, K., Agastian, P. and Ignacimuthu, S., 2008, Micropropagation of *Swertia chirata* Buch. – Hams. Ex Wall.: a critically endangered medicinal herb, *Acta Physiol. Plant*, DOI 10.1007/s11738-008-0257-0.
14. Baskar, K., Kingsley, S., Ezhil Vendan, S., Gabriel Paulraj, M., Duraipandiyan, V. and Ignacimuthu, S., 2009, Antifeedant, larvicidal and pupicidal activities of *Atalantia monophylla* (L) Correa against *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae), *Chemosphere*, doi:10.1016/j.chemosphere.2008.12.034.
15. Valan Arasu, M., Duraipandiyan, V., Agastian, P. and Ignacimuthu, S., 2009, In vitro activity of *Streptomyces* spp. ERI3 isolated from Western Ghats rock soil (India). *J. de Mycologie Medicale*, doi.10.1016/J.mycmed.2008.12-002
16. Antony Ceasar, S. and Ignacimuthu, S., 2009, Genetic Engineering of Millets: Current Status and Future Prospects, *Biotechnol. Letters*, DOI 10.1007/s10529-009-9933-4
17. Ramar Perumal Samy, Maung Maung Thwina, Ponnampalam Gopalakrishnakone, Savarimuthu Ignacimuthu, 2008. Ethnobotanical survey of folk plants for the treatment of snakebites in Southern part of Tamilnadu, India, *J. Ethnopharmacol.*, 115, 302-312.
18. Subash Babu, Ignacimuthu, S., Agastian, P. and Babu Varghese, 2009, Partial regeneration of β -cells in the islets of langerhans by Nymphayol, a sterol isolated from *Nymphaea stellata* (Willd.) flowers, *Bioorg. Med. Chem.*, doi: 10.1016/j. bmc.2009.02.021.
19. Duraipandiyan, V. and Ignacimuthu, S., 2009, Antibacterial and Antifungal activity of Flindersine isolated from the traditional medicinal plant, *Toddalia asiatica* (L.) Lam, *J. Ethnopharmacol*, doi.10.1016/j.jep. 2009.02.020.
20. Prakash Babu, N., Pandikumar, P. and Ignacimuthu, S., 2009, Antiinflammatory activity of *Albizia lebeck* Benth., an Ethnomedicinal plant in acute and chronic animal models of inflammation, *J. Ethnopharmacol.* (Accepted).
21. Antonisamy, P., Kannan, P. and Ignacimuthu, S., 2009, Anti-diarrhoeal and ulcer protective effects of Violacin isolated from *Chromobacterium violaceum* in Wistar rats. *Fundamental and Clinical Pharmacol.* (Accepted).

22. Jasmine, R. Selvakumar, B.N., Daisy, P. and Ignacimuthu, S., 2009, Activity of *Eugenia jambolana*, an ethnomedical plant, against Drug-Resistant Bacteria. *Pharmaceutical Biology* (Accepted)
23. Dhanasekaran, M., Ignacimuthu, S. and Agastian, P., 2009, Potential hepatoprotective activity of Omonitol monohydrate isolated from *Cassia tora* L. on carbon tetrachloride induced hepatotoxicity in wistar rats. *Phytomedicine* (Accepted)

National Papers

24. Gabriel Paulraj, M. and Ignacimuthu, S., 2008. Moth Fauna in Parts of North Eastern Tamil Nadu, India, *Insect Environ.*, 14, 51-53.
25. Ignacimuthu, S., Premkumar, A. and Raveendar, S., 2008, Insect resistant transgenic crops: Potential benefits and risks: In *Emerging Trends of Researches in Insect Pest Management and Environmental Safety.*, U.P. J. Zool., Suppl. -4, Vol. 1, 1-16.
26. Ignacimuthu, S. and Ezhilvendan, S., 2008, Botanical Pesticides in Insect Pest Management. *Emerging Trends of Researches in Insect Pest Management and Environmental Safety.*, U. P. J. Zool., Suppl. -4, Vol. 1, 141-154.

Papers Published in Conference Proceedings

27. Ayyanar, M. and Ignacimuthu, S., 2008, Endemic medicinal plants used by tribal people in Tirunelveli hills, Western Ghats of India, *Wildlife Biodiversity Conservation*, (Ed. M. Vikram Reddy), Daya Publishing House, New Delhi, pp 278-285.
28. Gabriel Paulraj, M., Pavunraj, M. and Ignacimuthu, S., 2009, Impact of Neem and Karanj Oil Formulation With *Hyptis suaveolens* Leaf Extract on Feeding, Survival, Histology and Protein Profile of Four Lepidopteran Pests. In *Ecofriendly Insect Pest Management*, (Eds. S. Ignacimuthu and B.V. David), Elite Publishing House, New Delhi, pp 191-194.
29. Ezhil Vendan, S., Baskar, K., Gabriel Paulraj, M. and Ignacimuthu, S., 2009, Antifeedant and larvicidal effects of *Hydnocarpus alpina* Wt. (Flacourtiaceae) extracts against the larvae of *Helicoverpa armigera* Hub. (Lepidoptera: Noctuidae), In *Ecofriendly Insect Pest Management*, (Eds. S. Ignacimuthu and B.V. David), Elite Publishing House, New Delhi, pp 191-194.
30. Nattudurai, G., Gabriel Paulraj, M. and Ignacimuthu, S., 2009, Fumigation Effect of Essential Oils and Formaldehyde Against Stored Product Pests - In *Ecofriendly Insect Pest Management*, (Eds. S. Ignacimuthu and B.V. David), Elite Publishing House, New Delhi, pp 191-194.
31. Maheswaran, R., Baskar, K., Kingsley, S. and Ignacimuthu, S., 2009, Bioefficacy of some essential oils against the larvae of vector mosquitoes *Culex quinquefasciatus* and *Aedes aegypti* (Diptera : Culicidae)- In *Ecofriendly Insect Pest Management*, (Eds. S. Ignacimuthu and B.V. David), Elite Publishing House, New Delhi, pp 191-194.

BOOKS PUBLISHED

1. S. Ignacimuthu, 2008, Bioethics, Narosa Publishers, New Delhi, pp. 1-208; Alpha Science International, Oxford, UK (Foreign Edition)
2. S. Ignacimuthu and B.V. David (eds.), 2009, Ecofriendly Insect Pest Management, Elite Publishing House, New Delhi p. 325.

PROJECTS IN OPERATION

Principal Investigator - Dr. S. Ignacimuthu, s.j.

S. No.	Title of the Project	Agency	Duration
1.	Antidiabetic activity of selected medicinal plants used by Kani tribes in Tamilnadu (7.83 Lakhs)	DRDO, New Delhi	2007-2009
2.	Antidiabetic activity of some selected medicinal plants used by Paliyar tribes in Tamil Nadu (11.13 lakhs)	ICMR-New Delhi	2007-2010
3.	Hepatoprotective activity of <i>Wedelia urtaecofolia</i> and <i>Datura metel</i> used by herbal healers (4.69 Lakhs)	NIF-ICMR, New Delhi	2008-2009
4.	Antidiabetic activity of <i>Nicotiana tobaccum</i> and <i>Ipomea nil</i> used by herbal healers (3.68 lakhs)	NIF-ICMR, New Delhi	2008-2009
5.	Augmenting the Livelihood of Women Farmers and Women through Self Help Groups through Training on Biopesticides and Vermicompost Production for sustainable Agriculture (9.33 lakhs)	DBT Sci.& Soc., New Delhi	2009-2012
6.	Development of Insect Resistant <i>Abelmoschus esculentus</i> (Linn.) (11.21 lakhs)	UGC, New Delhi	2009-2012

ERI FUNDED PROJECTS

1. Genetic engineering of plants for insect and fungal resistance
2. Biodiversity of Insects
3. Screening of Actinomycetes for useful products
4. Anticancer and Antiinflammatory study of some medicinal plants

DST-Young Scientist Project

- Evaluation of Novel Botanical Formulations Prepared From Mangrove Plant Extracts Against Vegetable Crop Pests – Awardee: Dr. M. Gabriel Paulraj

ICMR and CSIR Sponsored SRF Fellowships

1. Indigenous Use of Ethnomedicinal Plants in Southern Eastern Ghats of Tamil Nadu – Awardee: Dr. M. Ayyanar (ICMR).
2. Isolation of novel cytokine modulator from *Clerodendrum phlomides* using adjuvant arthritis Awardee: N. Prakash Babu (CSIR).

SYMPOSIA/ SEMINAR/ WORKSHOPS

1. This Institute is conducting an ***in-house seminar every Saturday*** relating to the research activities of the faculty and students
2. National Symposium on “***Non-Chemical in Insect Pest Management***” February 5-6, 2009.

Ph.D. DEGREE AWARDED

1. **S. Mariya Packiam** – Effect of new phytopesticidal formulations against *Spodoptera litura* (Fab.) and *Helicoverpa armigera* (Hub.) (Lepidoptera: Noctuidae)
2. **M. Pavunraj**- Bioefficacy of Novel Botanical pesticide Formulations against Some Lepidopteran Pests
3. **Mr. P. Kannan** - Biological activity of some medicinal Plants and microbes and genetic diversity of *Chromobacterium violaceum*
4. **N. Shanmugam** – *In vitro* Screening of some medicinal plants against *Mycobacterium tuberculosis*

PATENTS FILED

1. S. Ignacimuthu, M. Dhanasekaran and V. Duraipandiyan, 2008, A compound Methyl tetradecahydro phenanthrene -8a-carboxylate from *Albizia procera* Bark with anticancer activity, 2030/CHE/2008, 21-08-2008.

GENE SEQUENCE DEPOSITED IN THE WORLD GENE BANK

1. *Chromobacterium violaceum* 16S rRNA gene sequence isolated from forest soil sample, Kolli Hills, Namakkal, Tamil Nadu, India and submitted into NCBI GENBANK (Ref: EU372837) on 28-01-2008, P. Kannan, S. Ignacimuthu and M. Gabriel Paulraj.
2. *Serratia marcescens* 16S rRNA gene partial sequence isolated from forest soil sample, Kolli Hills, Namakkal, Tamil Nadu, India submitted into NCBI GENBANK (Ref: EU372838) on 28-01-2008, P. Kannan, S. Ignacimuthu and M. Gabriel Paulraj.
3. *Bacillus* Species ERI 10 Partial 16s ribosomal RNA gene: Submitted (26-JUL-2008) Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, GenBank accession number (bankit1117638 -EU984073). Duraipandiyan, V., Valanarasu, M. and Ignacimuthu, S
4. *Bacillus* species ERI 44 16S ribosomal RNA gene Partial: Submitted (26-JUL-2008) Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, GenBank accession number (bankit1117641 -EU984074). Duraipandiyan, V., Valanarasu, M. and Ignacimuthu, S.
5. *Streptomyces* strain ERI 04 16S ribosomal RNA gene: Submitted (23-JUL-2008) Division of microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India, GenBank accession number (bankit1116676-EU924146), Valanarasu, M., Duraipandiyan, V., Agastian, P. and Ignacimuthu, S.
6. *Promicromonospora* sps. ERI 01 16S rRNA gene partial sequence: submitted (26-Jul-2008), ?Divisions of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu, (EU939448), Valanarasu, M., Duraipandiyan, V., Agastian, P. and Ignacimuthu, S..
7. Antimicrobial activity of bis-ethyl hexyl phthalate and dibutyl phthalate produced by *Streptomyces* sp. ERI 15: Submitted (or-JAN-2009), Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, GenBank (bankit1171356) Joseph Devadass, B., Gabriel Paulraj, M. and Ignacimuthu, S.