

BIODATA

- 1. Name** : Dr. S. IGNACIMUTHU, S.J.
- 2. Designation** : Director
- 3. a) Address & Telephone Number** : Entomology Research Institute
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entolc@hotmail.com; imuthu@hotmail.com
- b) Community** : Backward Class
- c) Religion** : Christian
- 4. Date of Birth** : September 9, 1948
- 5. Sex** : Male

6. Educational Qualification

Degree	University/Institution	Subject	Year	Marks (%) and Grade	Merit
B.Sc.	University of Madras	Botany	1972	84.5; 8.45/10	University II Rank
M.Sc	University of Madras	Botany	1978	97.0; 5.82/6	University I Rank
M.Phil	University of Delhi	Botany	1982	92.8; 6.5/7	Outstanding
Ph.D	University of Delhi	Genetics	1986	-	Outstanding
D.Sc.	University of Madras	Biotechnology	2001	-	Outstanding
PGDEE	Institute of Environment and Ecology, Delhi	Environment	1990	-	Outstanding

7. Teaching and Administrative Experience

Position	Institution	Year
Vice Chancellor	University of Madras, Chennai	2002-2003
Vice Chancellor	Bharathiar University, Coimbatore	2000-2002
Principal	Loyola College, Chennai	1997-2000
Assistant Director	Entomology Research Institute, Loyola College, Chennai	1993-1996
Principal	St. Xavier's College, Palayamkottai	1992-1993
Vice-Principal & Lecturer, Reader,	St. Joseph's College, Trichy	1980-1992
Director	Entomology Research Institute, Loyola College, Chennai	1996 Till date

8. Research Experience

Post Doctoral Research	Department of Cell Biology, University of Kaiserslautern, Germany	Molecular Biology	1995 (9 months)
Visiting Scientist	Department of Entomology, University of Wisconsin, Madison, USA	Entomology	1995 (3 months)
Visiting Scientist	Applied Entomology, ETH Zentrum, Zurich, Switzerland	Entomology	1996 (6 months)
Visiting Scientist	Institute of Plant Sciences, ETH Zentrum, Zurich, Switzerland	Molecular Biology	1996 (6 months)
Visiting Scientist	National Institute of Basic Biology, Okazaki, Japan	Molecular Biology	1997 (3 months)
Visiting Scientist	Department of Genetics, University of Kaiserslautern, Germany	Molecular Biology	2003 (3 months)

9. Research Specialization : Biotechnology, Biopesticides and Ethnopharmacology

10. Academic Innovations as Vice-Chancellor

- Introduced choice based credit system
- Introduced dual degree programme
- Established counseling center and placement cell
- Instituted many job and skill oriented courses
- Introduced internal marks component
- Introduced teacher evaluation by student
- Established student scholarships

11. Academic Innovations as Principal

- Introduced Biotechnology as a subject of study in colleges and Universities
- Restructured UG syllabus as a model syllabus with skill orientation for all subjects
- Introduced evaluation of teachers by students
- Introduced foundation courses including value education and extension services in colleges

12. Membership by Appointment

- Member, Biotechnology Board, Government of Tamil Nadu
- Member, Tamil Nadu State Council for Higher Education, Govt. of Tamil Nadu
- Member, Editorial Board, Indian Journal of Experimental Biology, New Delhi.
- Member, Editorial, Board, International Journal of Plant Cell Biotechnology and Molecular Biology.
- Member, Editorial Board, Wealth of India, CSIR, New Delhi
- Member, Executive Council, University of Hyderabad
- Member, Executive Council of University of Nagaland
- Expert Member, Editorial Committee, Revival Journals of University of Madras from 2011.

13. Resource Person

- UGC on Autonomy, New Delhi
- State Planning Commission, Government of Tamil Nadu
- Evaluator of Government Scientific Projects
- Referee for Scientific Articles, National and International Journals.

14. Awards and Prizes

1. University Second Rank in B.Sc.
2. University First Rank in M.Sc.
3. Fellow of Several Scientific Bodies
4. Best Book Award given by Tamil Nadu Government for the book on Environmental Awareness and Pollution Control.
5. Tamil Nadu Scientists Award (TANSA) given by Tamil Nadu Government for Life Sciences in 2002.
6. CEED Best Educationist Award, awarded by Centre for Education and Empowerment of the Downtrodden, India, 2006.
7. Kaiserslautern University Scholarship for Post Doctoral Research
8. ETH ZURICH Scholarship for Post Doctoral Research
9. Man of the Year 1998, 1999, 2000, 2001 and 2002 by American Biographical Institute, Raleigh, USA
10. 2000 Millennium Medal of Honour by American Biographical Institute, Raleigh, USA
11. International Man of the Year 1998 by International Biographical Institute Cambridge, England
12. 20th Century Award for Achievement by International Biographical Institute Cambridge, England
13. Marquis Who's Who in the World, 19th edition 2002 published from New Providence, USA
14. Outstanding people of the 21st Century – First edition, 2001 published by American Biographical Institute, USA.
15. Most Influential Scientist of the Decade awarded by American Biographical Institute, USA in January 2002.
16. Distinguished Leader Medal Awarded by American Biographical Institute, USA in January 2002.
17. 500 Outstanding Scientists of the Century Awarded in 2001 by International Biographical Institute, Cambridge, England
18. American Medal of Honour awarded by American Biographical Institute, USA
19. 1000 World leaders of Scientific Influences awarded by American Biographical Institute, USA.
20. International Directory of Distinguished Leadership Hall of Fame awarded by American Biographical Institute, USA.
21. 2000 Outstanding Intellectuals of 21st Century awarded by International Biographical Institute, Cambridge, England.
22. Great minds of the 21st Century – 2004 Edition, American Biographical Institute, USA
23. Web of Science ranked 4th place in Chennai city, The Thomson Corporation, 2007 (<http://portal.isiknowledge.com/analyze/ra.cgi>).
24. Gold Medal for India awarded by American Biographical Institute, USA, 2008
25. Alpha Lifetime Achievement Award, 2002, by Alpha Arts and Science College, Chennai.
26. Rotary Award for Vocational Excellence, 2003, by Rotary Club of Madras North and Chennai East, Chennai.
27. M.K. Nambiar Memorial Oration Award, 2002, by Indian Association of Biomedical Scientists, Chennai.
28. International Scientists of the Year for 2007 awarded by International Biographical Centre, Cambridge, England, May 2007.
29. Karmaveerar Kamarajar Environmental Award 2008 for Environmental Management awarded by Department of Environment, Govt. of Tamil Nadu.
30. Satyagraha Best Educationist Award, 2011, Awarded by Satyagraha Movement
31. Leading Scientists of the world, 2011 by International Biographical Centre, UK.
32. Gold medal for India, 2011 by American Biographical Institute, USA
33. Marquis World Who is Who, 2011 by Marquis Publishers, USA.
34. CSIR – Emeritus Scientist Award, 2009

35. Life-time Achievement Award given by His Excellency Dr. K. Rosaiah, Governor of Tamil Nadu on behalf of Thiru Vi. Ka. and Dr. Mu. Va. Education Trust, Chennai – 2012
36. The Cambridge Certificate for Outstanding Scientific Achievement given by International Biographical Centre, England – 2012.
37. ICMR – Emeritus Medical Scientist Award - 2013

15. Membership and Fellowship in Professional Bodies

1. Member, Biotechnology Board, Government of Tamil Nadu – 2001 – 2004
2. Member, Tamil Nadu State Council for Higher Education, Govt. of Tamil Nadu – 2001 – 2003
3. Member, Editorial Board, Indian Journal of Experimental Biology, New Delhi – 2002 – 2004
4. Member, Editorial, Board, International Journal of Plant Cell Biotechnology and Molecular Biology – 2002 – 2005
5. Member, Editorial Board, Wealth of India, CSIR, New Delhi – 2006 – 2007
6. Member, Editorial Board, Natural Product Radiance, New Delhi from 2008
7. Member, Executive Council, University of Hyderabad – 2003 – 2006
8. Member, Executive Council, University of Nagaland – 2003 - 2006
9. Member, Planning Board, Alagappa University, Karaikudi – 2008 till date.
10. Member, Executive Council, Karunya University, Coimbatore – 2007 till date
11. Member, Advisory Board, Vels University, Chennai from 2008
12. Member, Indian Society of Genetics and Plant Breeding, New Delhi from 1986
13. Member, Indian Science Congress, Calcutta from 1986
14. Member, Indian Society of Phytomorphology, New Delhi from 1992
15. Member, National Geographical Society, USA from 1996
16. Member, Entomological Society of America, USA from 2000
17. Member, Society of Economic Botany, USA from 2000
18. Royal Entomological Society, England from 2000
19. International Society of Molecular Biology, USA from 1996
20. Member, Nature Reader Panel from 2008
21. Fellow of the Indian Society of Genetics and Plant Breeding from 1991.
22. Fellow of the Indian Society of Nuclear Techniques in Agriculture and Biology from 1990
23. Fellow of the Royal Entomological Society, London from 2007
24. Fellow of Entomology Academy of India, Chennai from 2008
25. Fellow of National Academy of Agricultural Sciences from December 2008

16. Participation in National Seminars and Conferences

- Participated in more than 60 national seminars and conferences

17. Participation in International Seminars and Conferences

- Participated in more than 15 International Seminars and Conferences

18. Number of M.Phil Candidates

- So far guided more than 20 M.Phil candidates

19. Number of Ph.D. Candidates

- So far guided more than 25 Ph.D. candidates
- Now guiding 8 Ph.D. candidates

20. A) Patents Filed/awarded (Inventors, Title, File And Date)

1. S . Ignacimuthu, A. Jeyasankar and N. Raja. A procees for the preparation of an active compound 2,5 Diacetoxy-2-(Phenyl Methyl), 4,4,6,6-Tetra Methyl 1-1, 3-Cyclohexanedione having insecticidal property, 579/CHE/2005, 30-07-2004 (Patent No. 236541 dt. 9.11.2009). Patentee - **Entomology Research Institute**

2. S. Ignacimuthu, N. Raja, M. Pavunraj and V. Duraipandiyan. A process for preparation of 6-(4,7-dihydroxy-heptyl) quinone with antifeedant and antibacterial activity, 494/CHE/2006, 18-03-2006 (Patent No. 232206 dt. 16.3.2009). Patentee - **Savarimuthu Ignacimuthu**
3. S. Ignacimuthu and S. Mariapackiam. A Phytopesticidal Formulation 'PONNEEM' for controlling insect pests, 657/CHE/2006, 10-04-2006 (Patent No. 234081 dt. 5.5.2009). Patentee - **Savarimuthu Ignacimuthu**
4. P. Daisy, R.S. Jasmine and S. Ignacimuthu. A process for preparation of a novel compound 5,6-dihydroxy-3- [(4-hydroxy-6- (hydroxymethyl) -3,5-di[3,4,5-trihydroxy-6- (hydroxymethyl) tetrahydro-2*h*-2-pyranyl]oxy tetrahydro-2*h*-2-pyranyl]oxy] -2-methoxy-10, 13-dimethylperhydrocyclopenta [α]phenanthren-17-yl(phenyl)methyl acetate from *Syzygium cumini* (L) Skeels seeds with antibacterial and antidiabetic activity. 810/CHE/2007, 17-04-2007 (patent No. 244666 dt. 15-12-2010). **Patentee: P. Daisy, S. Ignacimuthu and R.S. Jasmine**
5. G. Chandramohan, K.V. Pugalendi, S. Ignacimuthu. A process for preparation of a novel compound 3-hydroxymethyl xylitol with antidiabetic activity, 268/CHE/2007, 07-02-2007 (patent No. 243139 dt. 1-10-2010) – Patentee - **G. Chandramohan, K.V. Pugalendi and S. Ignacimuthu**
6. P. Daisy S. Ignacimuthu and Mohammed Farook A process for preparation of a novel compound Gymnemic triacetate from *Gymnema sylvestre*. 1653/CHE/2007, 30-07-2007. (patent No. 246537 dt. 03.03.2011), **Patentee - P. Daisy, S. Ignacimuthu and Mohammed Farook.**
7. S. Ignacimuthu and P. Subash Babu, A process for preparation of a novel crystal compound Nymphayol [17-(hexan-2-yl)-10, 13-dimethylhexadecahydro-1 H-cyclopental[a] phenanthren-3-ol] from *Nymphaea stellata* Willd. Flower with antidiabetic property. 1567/CHE/2007, 20-07-2007 (patent No. 252169 dt. 30-04-2012). **Patentee – S. Ignacimuthu and P. Subash Babu**
8. S. Ignacimuthu and V. Duraipandiyan. A process for preparation of a novel crystal 2,2-dimethyl-2*h*-benzo (h) chromen-5(6*h*)-one with antimicrobial property and antifeedant activity, 317/CHE/2007, 23-2-2007.
9. P. Daisy, R.S. Jasmine and S. Ignacimuthu. A process for preparation of a novel compound, 6-[1-(10,13-dimethyl-4,5,8,9,10,11, 12,13,14,15,16,17-dodecahydro-1*H*- cyclopenta[α] phenanthren-17-yl) ethyl]-3- methyl-3,6-dihydro -2*H*-2-pyranone from *Elephantopus scaber* L. whole plant with antibacterial and antidiabetic activity, 809/CHE/2007, 17-04-2007.
10. S. Ignacimuthu, P. Daisy and Mohammed Farook A process for preparation of a novel compound Dihydroxy Gymnemic triacetate from *Gymnema sylvestre*. 1651/CHE/2007, 30-07-2007.
11. S. Ignacimuthu, P. Daisy and Mohammed Farook A process for preparation of a novel compound Gymnemic diacetate from *Gymnema sylvestre*. 1652/CHE/2007, 30-07-2007.
12. S. Ignacimuthu, K. Baskar and V. Duraipandiyan, 2009, A process for Preparing Compound Atalantiamide with Antifeedant larvicidal and pupicidal activities, 2610/CHE/2009
13. Ignacimuthu, S. and N. Shanmugam, 2008. Fractionation of *Adhatoda vasica* Leaves (applicants S. Ignacimuthu and ICMR) (Patent Application No. 1025/DEL/2010).
14. S. Ignacimuthu and N. Prakash Babu, 2012. A process for preparation of 3-hydroxy-2-methoxy sodium butanoate, a novel cytokine modulator from the leaves of *Clerodendrum phlomidis* L.F. Patent Application No. 2382/CHE/2012A dated 14-06-2012).
15. S. Ignacimuthu and K.V. Rajendran, 2012. A herbal formulation for controlling vector mosquitoes Application No. 2371/CHE/2012 dated 14-06-2012.

B. TRADEMARK

PONNEEM: Trademark Number 1813933

C. GENE SEQUENCE DEPOSITED IN THE WORLD GENE BANK

1. Gene sequence of 5'UTR and Promoter of the Sucrose – Sucrose fructosyl transferase has been partially sequenced and submitted into NCBI GENBANK (Ref: 442112) on 10-03-2007, Sujatha Jose, Joseph Thomas and S. Ignacimuthu.
2. *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.
3. *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.
4. Title: *Bacillus* Species ERI 10 Partial 16s ribosomal RNA gene: Duraipandiyar, V., Valanarasu, M. and Ignacimuthu, S. Submitted (26-JUL-2008) Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, GenBank accession number (bankit1117638 EU984073)
5. Title: *Bacillus* species ERI 44 16S ribosomal RNA gene Partial: Duraipandiyar, V., Valanarasu, M. and Ignacimuthu, S. Submitted (26-JUL-2008) Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, GenBank accession number (bankit1117641 - EU984074)
6. Title: *Streptomyces* strain ERI 04 16S ribosomal RNA gene: Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India, GenBank accession number (bankit1116676-EU924146).
7. *Promicromonospora* sp. ERI-01 16S ribosomal RNA gene, partial sequence Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (26-JUL-2008) Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, TamilNadu 600034, India ACCESSION EU939448.
8. Title: Partial digestion of 16s RNA of *Streptomyces* sp ERIMA-01. Duraipandiyar, V., Valanarasu, M. V.I. Hairul Islam and Ignacimuthu, S. Submitted (20-March-2009) Division of microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India, GenBank accession number (bankit 1198731- FJ865352).
9. Partial digestion of 16s r RNA of *streptomyces* sp ERI-14 from Western Ghats of Tamil Nadu India. Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of Microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India. Bankit 1203505 - *Streptomyces* sp ERI- 14 FJ887040.
10. Partial digestion of 16s r RNA of *Bacillus* sp -21 from Western Ghats of Tamil Nadu India. Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of Microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India. Bankit 1203511 - *Bacillus* sp -21 FJ887041.
11. Partial digestion of 16s r RNA of *Bacillus subtilis* ATR-14 from Western Ghats of Tamil Nadu India. Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of Microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India. Bankit 1203518 - *Bacillus subtilis* ATR-14 FJ887042.
12. Partial digestion of 16s r RNA of *Bacillus subtilis* ATR-20 from Western Ghats of Tamil Nadu India. Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of Microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India. Bankit 1203525 - *Bacillus subtilis* ATR-20 FJ887043.
13. Partial digestion of 16s r RNA of *Bacillus* sp - ARS-03 from Western Ghats of Tamil Nadu India. Valan Arasu, M., Duraipandiyar, V., Agastian, P. and Ignacimuthu, S. Submitted (23-JUL-2008) Division of Microbiology, Entomology Research Institute, Chennai, Tamil Nadu 600034, India. Bankit 1199539 *Bacillus* sp - ARS-03 FJ860515 .

14. 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.
15. Partial sequencing of 16s rRNA of *Proteus mirabilis*, Entomology Research Institute, Loyola College, Chennai, GenBank (GU 998792), Hairul Islam, V.I., Thomas, D. and Ignacimuthu, S.
16. Partial sequencing of 16s rRNA of *Actinomadura* sps. , Entomology Research Institute, Loyola College, Chennai, GenBank (GU 998793), Hairul Islam, V.I., Joseph Devadass, B. and Ignacimuthu, S.
17. Partial sequencing of 16s rRNA of *Actinomadura* sps., Entomology Research Institute, Loyola College, Chennai, GenBank (GU 998793), Hairul Islam, V.I., Joseph Devadass, B. and Ignacimuthu, S. 2010
18. Partial sequencing of 16s rRNA of *Bacillus subtilis*, Entomology Research Institute, Loyola College, Chennai, GenBank (GU 117603), Hairul Islam, V.I. and Ignacimuthu, S., 2010
19. Partial sequence of 16s rDNA of *Lysinibacillus fusiform* from *Anopheles stephensi* larval gut, Entomology Research Institute, Loyola College, Chennai, H. Gen Bank (HQ 127629),. Daniel Reegan, R., Paulraj, G. Ignacimuthu, S. and Islam. 2010.
20. Partial digestion of 16s r RNA of *Streptomyces* sp. ERI-CPDA-1. Balachandran, C., Duraipandiyan, V., Valan Arasu, M., and Ignacimuthu, S. (06-OCT-2010), Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India Accession- HQ385919.
21. Partial digestion of 16s r RNA of *Streptomyces* sp. ERINLG- 4 from Doddabetta forest soil, Nilgiri, Western Ghats of Tamil Nadu, India. Balachandran, C., Duraipandiyan, V., Valan Arasu, M., Ignacimuthu, S. and Kinsalin, V.A. (06-OCT-2010), Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India Accession-HQ385920.
22. Partial digestion of 16s r RNA of *Streptomyces* sp. ERINLG- 26 from Doddabetta forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Balachandran, C., Duraipandiyan, V., Valan Arasu, M., Ignacimuthu, S. and Kinsalin, V.A. (06-OCT-2010), Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India Accession- HQ385921.
23. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces* sp. **ERINLG-01** from Doddabetta forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KC820653.
24. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces sampsonii](#) **ERINLG-18** from Doddabetta forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006405.
25. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces tricolor](#) **ERINLG-23** from Doddabetta forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION-KF006404.
26. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces rameus* **ERINLG-35** from Kodanad forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006406.
27. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces bangladeshensis](#) **ERINLG-36** from Kodanad forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006407.
28. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces bangladeshensis](#) **ERINLG-41** from Kodanad soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006408.

29. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces* sp. **ERINLGM-42** from Kodanad forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006409.
30. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces* sp. **ERINLG-51** from Kodanad forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF006410.
31. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of Uncluttered *Streptomyces* sp., **ERINLG-71** from Dolphin house forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061086.
32. Balachandran, C., Host Antony David, R., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces* sp. **ERICAR-099** from Dolphin house forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KC710245.
33. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces flavofungini* **ERINLG-111** from Dolphin house forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061088.
34. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces flavofungini* **ERINLG-118** from Dolphin house forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061089.
35. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces galbus](#) **ERINLG-127** from Marappalam forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KC820652.
36. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces olivochromogenes* **ERINLG-135** from Marappalam forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061090.
37. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces olivochromogenes* **ERINLG-175** from Marappalam forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061092.
38. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces cellulosae* **ERINLG-180** from Marappalam forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061087.
39. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces phaeochromogenes* **ERINLG-192** from Marappalam forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061093.
40. Balachandran, C., Host Antony David, R., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces* sp. **ERINLG-201** from Mudumalai forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KC820651.
41. Balachandran, C., Host Antony David, R., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of [Streptomyces xanthochromogenes](#) **ERINLG-204** from Mudumalai forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KC710246.

42. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of *Streptomyces xanthochromogenes* **ERINLG-233** from Mudumalai forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061084.
43. Balachandran, C., Duraipandiyan, V., and Ignacimuthu, S., Partial digestion of 16s r RNA of Uncluttered *Streptomyces sp.*, **ERINLG-252** from Mudumalai forest soil, Nilgiri, Western Ghats of Tamil Nadu, India Submitted Division of Microbiology, Entomology Research Institute, Loyola College, Chennai, Tamil Nadu 600034, India ACCESSION- KF061085.
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21. Research Projects

a) Completed Projects

9. Major R&D projects/ programmes implemented.

No.	Title of the Project	Funding Agency	Duration
1.	Genetic diversity in the wild and cultivated urd and mung beans	UGC	1987-1989
2.	Training on Environment	CEBMO, Netherlands	1988-1991
3.	Characterization of wild relatives of pulses from Palney Hills, Western Ghats	ICAR	1989-1992
4.	Training on Conservation	MISSIO, Belgium	1990-1993
5.	Producing better nitrogen fixing pulses	UGC	1991-1994
6.	Training on Environmental Protection	MISSIO, Germany	1993-1996
7.	Biotechnological aspects of insect-seed interactions in relation to pulses	DBT	1995-1998
8.	Botanical pesticides used by tribals for mosquito control	DOEn	1996-1999
9.	Insecticidal Plants used by the tribals of Tamil Nadu,	Mac Arthur Foundation, USA	1995-2000
10.	Genetic Engineering of Pulses	UGC	1997-2001
11.	Helping farmers to Combat Malnutrition by Preventing Post-Harvest Loss of Legumes Using Integrated Pest Management.	Novartis Foundation Switzerland	1997-2001
12.	Environmental awareness programme among farmers and students	Indeschpatenshaft, Luxemburg	2001-2003

13.	Efficacy of <i>Hyptis suaveolens</i> and <i>Melochia chorcorifolia</i> for controlling pest in legumes	CSIR, New Delhi	2001-2003
14.	Survey of Medicinal Plants of Western Ghats in Tamil Nadu	ICMR, New Delhi	2001-2004
15.	Net Working and Computational Facilities	DST-FIST	2001-2006
16.	Antimycobacterial activity of <i>Solanum trilobatum</i> , <i>Adhatoda vasica</i> and <i>Garcinia pictorial</i>	ICMR, New Delhi	2003-2006
17.	Development of fungal resistant pearl millet [<i>Pennisetum typhoides</i> (L.) R. Br.] through genetic engineering (7.92 lakhs)	UGC New Delhi	2005-2007
18.	<i>Ex Situ</i> Conservation and Rehabilitation of Selected Threatened Medicinal Plants of South Western Ghats (6.73 lakhs)	MOEF New Delhi	2005-2007
19.	Formulation and Evaluation of Novel Botanical Pesticides for Controlling Lepidopteran Pests (7.42 lakhs)	CSIR New Delhi	2005-2007
20.	Field Demonstration and training of farmers in the use of bio-pesticides for sustainable agriculture (11.06 lakhs)	DST-Science & Society, New Delhi	2005-2008
21.	Isolation of bioactive molecules from selected plants against armyworm, <i>Spodoptera litura</i> (Fab.) and cotton bollworm, <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) (18.4 lakhs)	DST-SERC, New Delhi	2005-2008
22.	Antidiabetic activity of selected medicinal plants used by Kani tribes in Tamilnadu (7.83 Lakhs)	DRDO, New Delhi	2007-2009
23.	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
24.	Antidiabetic activity of some selected medicinal plants used by Paliyar tribes in Tamil Nadu (11.13 lakhs)	ICMR-New Delhi	2007-2010
25.	Hepatoprotective activity of <i>Wedelia urtaecofolia</i> and <i>Datura metel</i> used by herbal healers (4.69 Lakhs)	NIF-ICMR, New Delhi	2010-2011
26.	Augmenting the livelihood of women farmers and women through self help group through training on biopesticides and vermicompost production for sustainable agriculture (9.33 lakhs)	DBT, New Delhi	2009-2011
27.	Development of Insect Resistant <i>Abelmoschus esculentus</i> (Linn.) (Lady's Finger) (11.21 lakhs)	UGC, New Delhi	2009-2012
28.	Isolation and Synthesization of Antimycobacterial Compounds Vasicine Acetate and 2-Acetyl Benzylamine from <i>Adhatoda vasica</i>	CSIR-OSDD, New Delhi	2010-2012
29.	Identifying antidiabetic principles from <i>Aegle marmelos</i> Corr., A traditional antidiabetic medicinal plant (15.96 lakhs)	CSIR (Emeritus Scientist Scheme)	2009-2012
30.	documentation of Local Health Traditions practiced by herbal practioners in three districts of South Tamil Nadu and Encourage them to cultivate medicinal plants to enhance their livelihood (18.71 lakhs)	AYUSH, New Delhi	2010-2012

Ongoing Projects

1.	Screening of some plant molecules against <i>Mycobacterium tuberculosis</i> (17 lakhs)	ICMR, New Delhi	2011-2014
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2.	<i>Delonix elata</i> (L.) Gamble to treat arthritis and isolation of active compounds (17 lakhs)	ICMR, New Delhi	2011-2014
3.	Identification of genetic markers related to fungal resistance in finger millet (<i>Eleusine coracana</i> (L.) Gaerth.) using molecular marker techniques (21 Lakhs)	DBT-New Delhi	2011-2014

22. Publications

a) Science Books authored

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16. S. Ignacimuthu, 2009, Bioethics, Narosa Publishing House, New Delhi, and Alpha Science, Oxford, UK (Foreign Edition International), pp. 1-208.
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18. S. Ignacimuthu, 2011. Insect Pest Control using Plant Resources. Narosa Publishing House, New Delhi, and Alpha Science, Oxford, UK (Foreign Edition International), pp. 1-278.
19. S. Ignacimuthu, 2011. Biotechnology Protocols. M.J.P. Publishers, Chennai, pp. 1-285.
20. S. Ignacimuthu, 2011, Biotechnology: An introduction, (Revised Edition), Narosa Publishing House, New Delhi, and Alpha Science International, Oxford, UK (Foreign Edition), pp. 1-395.

21. Ignacimuthu, S., Pandikumar, P., Mutheeswaran, S. and Chellappandiyan, M., 2011. *Traditional Medicinal plants of Theni, Virudhunagar and Tirunelveli Districts*. Entomology Research Institute, Chennai, p.61.
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23. S. Ignacimuthu, 2012, *Biotechnology: An introduction*, Narosa Publishing House, New Delhi, pp. 1-458 (II Edition).
24. S. Ignacimuthu, 2013, *Basic Bioinformatics*, Narosa Publishing House, New Delhi, and Alliance Publishers, UK (Foreign Edition), pp 1-195. (Reprinted three times). Also translated into Russian (II edition).

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7. S. Ignacimuthu and P. Shanmugavel, (Eds), 2004. *Tree Improvement and Biotechnology*, Pointer Publishers, Jaipur, pp 1-255.
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9. S. Ignacimuthu and S. Jayaraj (Eds.), 2005, *Green Pesticides for Insect Pest Management*, Narosa Publishing House, New Delhi, and Alpha Science, Oxford, UK (Foreign Edition), pp. 1-325.
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3. S. Ignacimuthu, 1991. Basic Good Manners, Vaigarai Publications, Dinigul, pp 1-63. (reprinted 10 times and translated into 6 Indian languages)
4. S. Ignacimuthu, 1992. *Chirappaha Vazhvatharku* (Tamil), (To Live Eminently), Vaigarai Publications, Dindigul, pp 1-65. (reprinted 6 times)
5. S. Ignacimuthu, 1993. *Viduthalai – Anmeekam* (Tamil), (Liberation Spirituality), Vaigarai Publication, Dindigul, pp 1-148
6. S. Ignacimuthu, 1994. Values for Life, St. Paul Publications, Mumabi, pp 1-134. (reprinted fifteen times and translated into 5 Indian languages).
7. S. Ignacimuthu, 1995. *Arthamulla Vazhkai* (Tamil), (Meaningful Life), Vanathi Publications, Chennai, pp 1-148.
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d) Research Papers published in full

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2. Ignacimuthu, S. and Babu, C.R., 1985, Phenotypic variations in natural populations of *Vigna radiata* var. *sublobata* (Roxb) Leguminosae, Papilionoidae, *Ind. J. Genetics*, 44, 286-296.
3. Ignacimuthu, S. and Babu, C.R., 1984, Significance of seed coat pattern in *Vigna radiata*, var. *sublobata*. *Proc. Nat. Acad. Sci.*, 94, 561-566.
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10. Ignacimuthu, S. and Babu, C.R., 1989, Induced chromosomal abnormalities in wild and cultivated urd and mung beans. *Cytologia*, 54, 156-167.

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13. Ignacimuthu, S. and Babu C. R., 1990, Induced variation in yield traits of wild and cultivated beans. *J. Nuclear Agric.*, 19, 119-123.
14. Ignacimuthu, S. and Adaikalam, V., 1990, Mitotic irregularities induced by the tannery effluent. *Environ Biol.*, 163-167.
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16. Ignacimuthu, S. and Radhakrishnan, R., 1991, Effect of caffeine on root meristems of *Allium cepa* L. *Vegetos*, 4, 1-4
17. Ignacimuthu, S. and Babu C. R., 1992, Induced variation in pod and seed traits of wild and cultivated beans. *J. Nuclear Agric. Biol*, 21, 286-292
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