

PROFILE

Dr. M. Raja, M. Sc., M. Phil., Ph.D., M.B.A(HR), F.E.S.I.,

Assistant Professor
Department of Adv. Zoology and Biotechnology
Loyola College
Chennai - 600 034
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I. PERSONAL DETAILS

Date of Birth : 16.02.1981
Sex : Male
Permanent Address : S/o S. Malaiyappan
St. Anthony Street,
Azhaganandal village, Kolakkudi (Post),
Thiruvannamalai (District), 600 808.

II. EDUCATIONAL QUALIFICATION

S. No	Degree/ Board	Institute/ University	Year of Passing	Class/%
1	Ph. D, Zoology	Loyola College (Autonomous), Chennai. (University of Madras)	December,2010 Highly commended	
2	M. Phil, Zoology	Loyola College (Autonomous), Chennai. (University of Madras)	August, 2006	83% Dist.
3	M. Sc., Zoology	Loyola College (Autonomous), Chennai. (University of Madras)	April, 2005	First class
4	B. Sc., Zoology	Loyola College (Autonomous), Chennai. (University of Madras)	April, 2003	First class
5	H.S.C.	Punitha Sagaya Annai Boys Hr. Sec. School, Pavitram, Thiruvannamalai.	April, 1998	First class
6	S.S.L.C.	Punitha Sagaya Annai Boys Hr. Sec. School, Pavitram, Thiruvannamalai.	April, 1996	First class

III. TEACHING EXPERIENCE

1. Working as an **Assistant Professor** in the **Dept. of Advanced. Zoology and Biotechnology, Loyola College, Chennai**, from June 2011 to till date.
2. Working as a **Lecturer** of **Business Administration in Pondicherry University-Loyola College Twinning Programme, Chennai**, from December 2010 to till date.
3. Worked as a **Lecturer** in the **Dept. of Advanced. Zoology and Biotechnology, Loyola College, Chennai**, from December 2006 to March 2007.

IV. RESEARCH EXPERIENCE

Worked as a **Senior Research Fellow** in Sun Ago Biotech Research Centre, Porur, Chennai from **April 2008 to March 2010** funded by World Noni Research Foundation, New Delhi.

V. AREA OF RESEARCH

Zoology, Entomology, Molecular Biology and Microbiology

a. PH.D THESIS TITLE

Studies on entomopathogenic fungi certain lepidopteran pests of cruciferous vegetable cabbage.

b. M. Phil. DISSERTATION TITLE

“Molecular analysis of Esterase and DNA pattern in different populations of *Callosobruchus maculatus* (Fab.) in Tamil Nadu.

c. M. Sc. DISSERTATION TITLE

“Bio efficacy of certain plant extracts and volatile oils against cowpea beetle *Callosobruchus maculatus* (Fab.) (Coleoptera : Bruchidae)”.

VI. RESEARCH GUIDANCE FOR M.Sc AND M.Phil

No of M. Phil. as guide:

Guided: 1

Guiding: 2

No of M.Sc. as guide:

Guided: 3

Guiding: 2

VII. POSITIONS HELD (IN LOYOLA)

1. Assistant director in Loyola Boy's hostel 2012 to till date

VIII. MEMBER IN ASSOCIATION/ SOCIETY

1. Entomological Society of India, New Delhi
2. Entomology Academy of India, Chennai
3. International Society for Molecular Recognition, Israel
4. International Society of Zoological Sciences
5. Association for Environmental Science Study

IX. TRAINING CUM WORKSHOPS ATTENDED

1. National workshop cum field study on infectious diseases and preventive medicine organised by Medical Laboratory Technology, Department of Advanced Zoology and Biotechnology, Loyola College, Chennai on 14th February 2014.
2. A Guide to the heritage of our colleges at St. Joseph's College, Tiruchirappallai on 17 January 2014.
3. Orientation training programme for the newly recruited teaching staff in grant-in-aid organised by professional training committee and Jesuit Higher Education Commission of Madurai province at Dindugal on September 2013.
4. National workshop on Ergonomics calibration and ISO 8655 standards Pipetting Techniques at Department of Advanced Zoology and Biotechnology, Loyola College, Chennai on 06th September 2013.
5. Orientation training programme for the newly recruited teaching staff in grant-in-aid organised by professional training committee and Jesuit Higher Education Commission of Madurai province at Loyola college, Chennai.
6. Psycho-Pedagogy for college teacher, Loyola College and Loyola College of Education for 30 hours from March to April 2012.
7. Effective writing of research project proposals organised by LISSTAR at Loyola College, Chennai on March 29, 2012.
8. National level training cum workshop on Recent trends Training on Taxonomy and Biosystematics in Loyola College from 23rd to 26th February 2011.

9. Hands on Training on quality control in milk and milk products from March to March 2003 at Tamil Nadu Veterinary and Animal Sciences University.
10. First aid training programme from 9th to 11th December 2002 conducted by St. John Ambulance Association.

X. PAPER PUBLISHED IN NATIONAL / INTERNATIONAL

International

1. Robert Selvam, D., **Raja, M.** and John William, S. **2012.** Effects of cigarette smoke on human salivary total protein, albumin and α -amylase International Journal of Recent Scientific Research, **3 (6):** 474 - 476.
2. Robert Selvam, D. and **Raja, M.** **2012.** Biochemical analysis of salivary total protein, albumin and α -amylase among the coffee consumed people, Internat. J. Curr. Res., **4(1):** 58-60.
3. Mary Vimalakumari Kalaiarasi, J., **Raja, M.** and Ambross Dass, J. **2011.** The influence of aluminium chloride and extract of *Salacia oblonga* on biochemical parameters in wister albino rat, Internat. J. Curr. Res., **3(3):**209-218.
4. Mary Vimalakumari Kalaiarasi, J., **Raja, M.** and Anitha Joice, A. **2011.** Aluminium induced hematological changes and influence of *salcia oblonga* extract in wistar albino rats, *Internat. J. Curr. Res.*, **3(3):** 95-99.
5. **Raja, M.**, John Wiliam, S., Jahir Hussain, K. 2009. Genetic diversity of *Callosobruchus maculatus* (Fab.) (Coleoptera: Bruchidae) populations. *International Journal of Integrative Biology*, **8(1):** 15-18.
6. **Raja, M.**, John William S. 2008. Impact of volatile oil against the cowpea beetle *Callosobruchus maculatus* (Fab.) (Coleoptera: Bruchidae). *International Journal of Integrative Biology*, **2(1):** 62-64.

National

7. **M. Raja**, Vasantharaj David, B. and John William, S. **2014.** Population Dynamics of Key Insect-Pests of Cabbage In Different Agro-Climatic Regions Of Tamilnadu* *Indian Journal of Entomology*, **76 (1):** 1-7.
8. **M. Raja**, B. Vasantharaj David and S. John William. **2013.** Prevalence of natural enemies of cabbage insect pests in different agro-climatic regions of Tamilnadu. *Indian Journal of Entomology*, **75 (4):** 344-346.
9. **Raja, M.**, Jeyakumar, M., Vasantharaj David, B. 2012. Parasitization and morphometric studies on *Macroglossum* egg with *Corcyra* egg by *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae), (in process).
10. **Raja, M.** and John William, S. 2010. Isolation of viable entomopathogenic fungus *Fusarium pallidoroseum* against Cabbage Aphids *Brevicoryne brassicae* major pest of cabbage, *Hexapoda*, **17 (2):** 164-165.
11. Jayakumar, M and **Raja, M.**, 2010. New record of *Eocanthecona furcellata* (Wolffenstein), (Heteroptera: Pentatomidae) as a predator of the lepidopteran larvae and Orthopteran in *Morinda citrifolia* at South India *Hexapoda*, **17(1):** 35 – 37.

12. Vasantharaj David, B. and **Raja, M.** 2008. Severe incidence of the Aleyrodid *Aleuroplatus alcocki* (Peal) on *Syzigium cumini*, *Insect Environment*, **14(2)**: 69-70.
13. Madhurima, Ch., **Raja, M.** and Selvaraj, P. 2008. Persistence of Carbofuran in rice ecosystem and its compatibility with *Trichoderma viride*, *Psuedomonas fluorescens* and *Azospirillum*. *Pestology*, **32 (11)**: 28-30.
14. **Raja, M.**, John William S. and Jeyakumar, M. 2008. Insecticidal and oviposition deterrent activity of some plant extracts against cowpea beetle *Callosobruchus maculatus* (fab.) (Coleoptera: Bruchidae), *Indian Journal of Entomology*,
15. **Raja, M.**, John William S. and Jeyakumar, M. 2007. Repellent activity of plant extracts and volatile oils to the pulse beetle *Callosobruchus maculatus* (Fab.). *Hexapoda*, **14(2)**: 142 – 146.

XI. PAPER PRESENTED IN SEMINARS / SYMPOSIA / CONFERENCES

1. **Raja, M.**, Carol, D., Mary Stella, K., Anthonyraj, A. And Muthulakshmi, M. 2013. Ecopsychology in relationship between school students and the natural world. Fr. Vion Indo-Bhutan International conference on Gross national happiness organised by Department of Mathematics, Loyola College, Chennai on January 13-15th, 2013.
2. **Raja, M.** And John William, S. 2013. Evaluation of entomopathogenic fungi *Fusarium pallidorozeum* as potential biopesticide to mitigate cabbage crop loss, 10th IAAM national conference on exploiting the potential of microbes for bioscience, biotechnology and medicine organised by canter of environmental nuclear research, SRM University, Chennai on 17th and 18th December 2012.
3. **Raja, M.** And John William, S. 2012. Entomopathogenic fungi *Fusarium pallidorozeum* as potent bio-control agents towards *Brevicoryne brassicae* (L.) pest of cabbage, National conference on, Auxilium College, Vellore on December 13-14, 2012.
4. **Raja, M.** And John William, S. 2011. A tool of biotechnology for sustainable agriculture and rural development. National Conference on Environmental protection and Management, August 29 & 30th 2011.
5. Jayakumar, M. and **Raja, M.** 2009. Prevalence of natural enemies of *Morinda citrifolia* in South India. First World congress 2010. Proceedings Eds. by Dr. P. Rethinam. 2010.
6. Jayakumar, M. and **Raja, M.** 2009. Potential insect pests of *Morinda citrifolia* in South India. Fourth national symposium on noni search 2009. Proceedings Eds. by Dr. P. Rethinam. 2009.
7. Jayakumar, M., David, B.V., Selvaraj, P. and **Raja, M.** 2008. Pest complex on *Morinda citrifolia* in South India. Third national symposium on noni search 2008. Proceedings Eds by Dr. P. Rethinam. 2008. pp 166-183.
8. **Raja, M** and John William, S. 2007, Biotechnological for sustainable agriculture and rural development. Young scientist conference on environment, health and food. December 31 and 4.
9. **Raja, M** and John William, S. 2007, Nonchemical technological approach for mosquito management. National seminar on Mosquito biodiversity and challenges in the control of Mosquito- Borne diseases. February 19th and 20th.

10. **Raja, M.**, John William S. and Jeyakumar, M. 2006, "Biodiversity of insects". National conference on biodiversity. Proceedings Eds. By Dr. S. John William. January 30th and 31st.
11. **Raja, M.**, John William S. 2004, "Rejuvenation of plant earth". National seminar on healthy environment for the next generation. December 2m1 to 4th.

XII. SEMINARS / SYMPOSIA / CONFERENCES PARTICIPATED

1. 2013. Fr. Vion Indo-Bhutan international conference on Gross national happiness organised by Department of Mathematics, Loyola College, Chennai on January 13-15th, 2013.
2. 2012. 23rd All India congress of Zoology and national conference on conservation and management of faunal resources for sustainability organised by Guru Nanak college, Chennai on October 3-5 2012.
3. 2012. E-Waste management using biological tools: an Eco-friendly approach, Loyola College, Chennai. March 8th and 9th 2012.
4. 2011. National Conference on Environmental protection and Management, August 29 & 30th 2011.
5. 2008. Impact of climatic factors on insect abundance: changing scenario and future research thrusts. October 25, 2008.
6. 2008. National symposium on Noni search 2008. October 22-24. New Delhi.
7. 2008. Ecofriendly insect pest management. February 7th and 8th.
8. 2007. Young scientist conference on environment, health and food. December 3id and 4th.
9. 2007. Frontier of Biomedical Instrumentation Science and Disease Management, March 6th.
10. 2007. Stakeholders Dialogue for Urban Management, March 8th.
11. 2007. National Symposium on Recent Trends in Insect Pest Management, February and 2nd.
12. 2007. National Seminar on Mosquito Biodiversity and Challenges in the Control of Mosquito- Borne Diseases. Feberury 19th and 20th.
13. 2006. International Conference on "Biodiversity of Insects". Bharathiyar University, Coimbatore, January, to Februray 3.
14. 2006. National Symposium on "Biotechnology and Insect Pest Management", Entomology ressearch institue, Loyola college, Chennai. Februray, 3rd and 4th.
15. 2006. National conference on "Agrobiodiversity", National Biodiversity authority (NBA), Februray, 12th to 15'.
16. 2006. National conference on "Biodiversity", Janauary 30 and 31 November 2006. National conference on "Students Rights an Responsibilities under Democracy". March 6th
17. 2006. State level seminar on "Emerging Trends in Biomedical Sciences and Their Translational Applications". March 1St
18. 2005. National Conference on "Tsunami and Disaster Management", August 30th and 31St
19. 2004. State level seminar on "Urban environment impact assessment", February 12th and 13th

20. 2004. State level symposium on "Hi-tech and instrumentation in medical laboratory technology for diagnosis of human diseases"
21. 2004. National seminar on "Healthy environment for the next generation". December, and 2nd
22. 2003. National conference on "Conservation of coastal ecosystems with the help of Biotechnological tools". September 8th to 10th.
23. 2003. State Level Seminar On "Poultry", December, 1st and 2nd'.
24. 2003. State Level Conference on "HIV \ AIDS Awareness For College Students".
25. 2003. "Current trends in Laboratory Techniques for the diagnosis of human disorders", December 16th.
26. 2002. National Conference on "Management of Natural Resources for our Sustenance", October 3rd to 5th.
27. 2001. Seminar on "Poultry for Sustainable Food Production and Livelihood".

XIII. RESOURCE PERSON

1. Invited lecture on Human health and hygiene on 15th March 2014.
2. Invited lecture on AIDS and Prevention on 11th March 2013.
3. Invited lecture on EMU farm management at Namakkal on 27th May 2012.

XIV. CONDUCT OF EXAMINATION / PAPER SETTING / EVALUATION

1. Examiner, B.Sc., M.Sc and M.Phil., Zoology, University of Madras, Chennai.

XV. STUDENT WELFARE

1. Mentor for UG Advanced Zoology and biotechnology, Loyola College, Chennai
2. Student coordinator in Zoology Association in Loyola College (ZALC)

XVI. CAMP ATTENDED

1. Coordinated summer camp for Dalit students conducted by Loyola College, Chennai on May 2012.
2. Coordinated Loyola Outreach camp for M.Sc Zoology at Kuppaiyanallur, Kanchipuram District on November 2013.

XVII. SOCIAL WELFARE

1. **Staff coordinator** in outreach
2. **Staff coordinator** for "**Rural Expo 2012**" for rural school student at **Tiruthani**
3. **Staff coordinator** for "**Rural Expo 2013**" for rural school student at **Arakkonam**

XVIII. NCBI number

1. LOCUS HQ269349 482 bp DNA linear PLN 16-DEC-2010
DEFINITION *Beauveria bassiana* internal transcribed spacer 1, partial sequence;
5.8S ribosomal RNA gene, complete sequence; and internal
transcribed spacer 2, partial sequence; mitochondrial.
ACCESSION HQ269349
VERSION HQ269349
2. LOCUS HQ269350 400 bp DNA linear PLN 16-DEC-2010
DEFINITION *Fusarium proliferatum* internal transcribed spacer 1, partial
sequence; 5.8S ribosomal RNA gene, complete sequence; and internal
transcribed spacer 2, partial sequence; mitochondrial.
ACCESSION HQ269350
VERSION HQ269350

XIX. AWARD / PRIZE

100% Attendance price in the year 2012, 2013 and 2014 at Loyola College, Chennai

XX. OTHER CURRICULAR ACTIVITY

1. NCC - C certificate B Grade conducted by 13 TN Battalion Army, Chennai
2. NCC - B certificate B grade conducted by 13 TN Battalion Army, Chennai