

ARULMIGU PALANIANDAVAR ARTS COLLEGE FOR WOMEN PALANI

Profile



Name : Dr. R. ILAMATHI

Designation : Assistant Professor of Botany

Qualification : M.Sc. Ph.D.,

Email Id : ilamathi.raja@gmail.com

Date of Joining : 12.10.2022

Experience : 11 months

Articles Published in Journals : 6

Presented Papers in Conferences & Seminars: 3

Attended Work Shops/ conferences: 9

Various Positions held in the Institution:

- Disciplinary committee member
- Eco-Club member
- Nan Mudhalvan Scheme member
- Member of Board of Studies

ACADEMIC CREDENTIALS:

2016 Qualified state level eligibility test (**TNSET**) for Assistant Professor

2013-2021 **PhD in Botany**, Department of Plant Sciences, Madurai Kamaraj University, Madurai

2006-2011 **Integrated M.Sc., Life Sciences** with **8.02 CGPA**, Bharathidasan University, Tiruchirappalli

2006 **HSC** (2006) with **86%** of marks, Devi Matriculation Higher Secondary School, Palani

2004 **High School** (2004) with **89.5%** of marks, Devi Matriculation Higher Secondary School, Palani

PUBLICATIONS:

- ▶ **Raja, Ilamathi, and Jebasingh Tennyson.** "Small RNA—regulator of biotic stress and pathogenesis in food crops." In *Plant Small RNA in Food Crops*, pp. 233-269. Academic Press, 2023.
- ▶ **Rajendran, Kasthuri, Vikram Kumar, Ilamathi Raja, Manoharan Kumariah, and Jebasingh Tennyson.** "Identification of small non-coding RNAs from *Rhizobium etli* by integrated genome-wide and transcriptome-based methods." *ExRNA* 2, no. 1 (2020): 1-11
- ▶ **Raja Ilamathi, Vikram Kumar, Hariharan Sabapathy, Manoharan Kumariah, Kasthuri Rajendran, and Jebasingh Tennyson.** "Prediction and identification of novel sRNAs involved in *Agrobacterium* strains by integrated genome-wide and transcriptome-based methods." *FEMS microbiology letters* 365, no. 23 (2018): fny247.
- ▶ **Raja, Ilamathi, Kasthuri Rajendran, Manoharan Kumariah, and Sripriya Rajasekaran.** "Isolation and characterization of mannose-binding lectin gene from leaves of *Allium ascalonicum* (Shallot) and its putative role in insect resistance." *South Indian Journal of Biological Sciences* 2, no. 2 (2016): 245-255.
- ▶ **Crowd Sourcing a New Paradigm for Interactome Driven Drug Target Identification in *Mycobacterium tuberculosis*** published in *PLoS One*, 2012 July 11

AWARDS/MEDALS:

- 🏆 **Best Oral presentation award** for the paper entitled “**Gene pyramiding and selectable marker gene elimination in rice for fungal & Insect resistance**” during

the National symposium held at AC & RI, Madurai, Tamil Nadu from February 12-14, 2015 (Best Oral presentation Award)

- ✚ Qualified IIT's (Indian institute of Technology) National Graduate Aptitude Test for Engineering (**GATE**) in Life Sciences (XL), March 2012.
- ✚ Awarded as one of the '**Best contributors**' of Interactome pathway team in **Open SourceDrug Discovery** connect 2 decode program of *Mycobacterium tuberculosis*, organized by CSIR
- ✚ Second Rank holder in Integrated **M.Sc.**, Life sciences, Bharathidasan University.

SEMINARS AND PRESENTATIONS:

- **Poster** titled "*In silico* analysis of *Allium ascalonicum* lectin as a potent Entomotoxic protein" in the National seminar on Genomics & Proteomics – A computational Approach during March 6th & 7th, 2015 at Lady Doak college, Madurai
- **Oral presentation** for the paper entitled "**Gene pyramiding and selectable marker gene elimination in rice for fungal & Insect resistance**" during the National symposium held at AC & RI, Madurai, Tamil Nadu from February 12-14, 2015 (Best Oral presentation Award)
- **Poster** titled "**Plant lectins for generation of selectable marker-free insect resistant plants**" in the International conference on emerging trends in Biotechnology (ICETB 2014) held during November 6-9, 2014 at Jawaharlal Nehru University, New Delhi
- **Poster** entitled, "**Plant Lectins : A versatile protein for insect resistance**" in the national Science day & 45th Aqua-Terr Annual conferences on Biological Sciences held at School of biological Sciences, Madurai Kamaraj University, Madurai on 27-28 February, 2014
- **Poster** entitled, "**Genome wide prediction of novel sRNAs in Agrobacterium virulence**" in the National conference on innovations in Modern biology & 48th Aqua-Terr Annual conference conducted by school of biological Sciences, Madurai Kamaraj University, Madurai on 27-28 February, 2017
- Participated in the Interactome pathway in **OSDD** connect 2 decode program of *Mycobacterium tuberculosis*, organized by CSIR from December 2009 to April 2010.
- National conference on "**Modern Trends in plant in vitro biology**" organized by Department of Plant Science, Bharathidasan University with the sponsorship of UGC on 5-6th January 2009.
- National Seminar on "**Recent trends in chemical signaling**" organized by Center for Pheromone Technology, Bharathidasan University on 2nd February-2009.

- National seminar on “**Past, present and future scenario in Medicinal plants and phytochemistry**” organized by Department of Plant Science, Bharathidasan University with the sponsorship of UGC and CSIR on 22-23rd March-2007.

Nucleotide sequences submitted in NCBI

➤ *Allium ascalonicum* mannose-binding lectin (MBL) mRNA, partial cds
GenBank : KM096570.1.

➤ *Allium cepa* mannose-binding lectin (MBL) mRNA, partial cds
GenBank : KM096569.1

Plasmid Vectors developed: pRI1, pRI2, pRI3, pRI4, pRI5