

T. Jebasingh

Assistant Professor

Department of Plant Science
School of Biological Sciences



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Educational Qualifications : Ph.D

Professional Experience : 11 years excluding PhD period

FIELD OF SPECIALIZATION

- Plant Molecular Biology
- Protein Science
- RNA Biology

RESEARCH SPECIALIZATION

- Plant Virology
- RNA Biology

Research Supervision:

Program	Completed	Ongoing
Ph.D	Nil	3
M.Phil	Nil	Nil

PROFESSIONAL EXPERIENCE

S. No.	Institution Place	Position	From (Date)	To (date)	Duration
1	School of Biological Sciences, Madurai Kamaraj University	Assistant Professor	February 23, 2011	Till date	-
2	Plant Science Department, Weizmann Institute of Science, Israel	Post Doctoral Fellow	September 25, 2007	February 21, 2011	3 years, 5 months
3	Department of Plant Genetics and Breeding, Institute of Field and Garden. A.R.O, Volcani center, Israel.	Visiting Doctoral Fellow	December 31, 2006	March 31, 2007	3 months
4	Department of Plant Biotechnology, School of Biotechnology, Madurai Kamaraj University, Madurai	Ph.D	January 7, 2000	December 23, 2006	6 years
5	Institute of Forest Genetics and Tree Breeding, Coimbatore	Junior Research Fellow	October 23, 1998	December 31, 1999	1 year, 2 months

RESEARCH COLLABORATION (BOTH NATIONAL & INTERNATIONAL)

Name of the Collaborator	Institute	Collaboration Details	Collaboration Output (Papers/Patents/Research/Online)
Dr. MG	Regional Medical	SEB Project on Cloning,	Research and Papers

Madanan	Research Centre (ICMR), Andaman and Nicobar Islands	expression and purification of proteases from <i>Leptospira</i> (serogroup Icterohaemorrhagiae)	
Dr. P. K Satheeshkumar	Associate Professor, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi-221 005, UP	SERB project on Characterization of recombinant proteinases of <i>Leptospira</i> and identification of their role in invasion	Research and Papers
Dr. P. Gopal	Asistant Professor, Department of Plant Biotechnology, School of Biotechnology, School of Biological Sciences, Kamaraj University, Madurai-21.	DBT project on Development of an on-site diagnostic kit for <i>Cardamom mosaic virus</i>	Research and Papers

COMPLETED RESEARCH PROJECT

S. No.	Title of the Project	Funding Agency	Total Grant	Duration
1	Structural and functional characterization of <i>cardamom mosaic virus</i> (Reference number: SR/FT/LS/LS-68/2011).	DST OYS	24.90 lakhs	2012-2015
2	Identification of microRNAs of the <i>Potyviridae</i> . (Reference number: 38(1321)/12/EMR-II).	CSIR	23.00 lakhs	2012-2015
3	Characterization of the complete genome of <i>cardamom mosaic virus</i> . (Reference number: 41-555/2012 (SR)).	UGC	13.00 lakhs	2012-2015
4	Cloning, expression and purification of proteases from <i>Leptospira</i> (serogroup Icterohaemorrhagiae) (Reference	SERB	29.00 lakhs	2013-2016

	number: SR/SO/HS-78/2012).			
5	Development of an on-site diagnostic kit for <i>Cardamom mosaic virus</i> (Reference: BT/PR5967/PBD/16/991/2012).	DBT	29.00 lakhs	2013-2016
6	Co-investigator in Precursor feeding and <i>Agrabacterium rhizogenes</i> mediated transformation strategies for improved production of bioactive principles from <i>Decalepis hamiltonii</i> Wight & Arn. (Reference No. BT/PR6305/GBD/27/397/2012)	DBT-RYGI	26.80 lakhs	2012-2015
7	Co-investigator in Transgene stacking and selectable marker elimination to engineer insect and fungi resistance in south Indian variety of rice. (Reference No. BT/PR6255/GBD/27/395/2012)	DBT-RYGI	26.20 lakhs	2012-2015

ON-GOING RESEARCH PROJECT

Nil

HONORS/AWARDS/RECOGNITIONS

- Appreciation award given by Madurai Kamaraj University to appreciate the contribution in Research and Development during the period 01.01.2016 to 06.07.2017.
- SERB Young Scientist (2012-2015).
- Junior Research Fellowship (JRF) (2001), awarded by the Council of Scientific and Industrial Research (CSIR), Govt. of India
- National Eligibility Test (NET) (1999 & 2000) conducted by CSIR-UGC, Govt. of India.
- Best oral presentation award in National seminar on recent trends in Plant Biotechnology held in Bharathidasan University, Trichy in 17th-19th March 2004.
- C. P. Gnanamuthu award for proficiency in Zoology during the academic year 1995-1996 in American college.
- Natural science award for proficiency in field work-Zoology during the academic year 1995-1996 in American college.

PUBLICATIONS

1. Padikara K. Satheeshkumar, Prasanna V. Anu, Mohamed I. Junaida, Madathiparambil G. Madanan, **Tennyson Jebasingh**, Ananthakrishnan J. Nair, Gangaprasad A. Nair, Govinda Pillai M. Nair, Perumana R. Sudhakaran. (2018). Expression of Leptospira membrane proteins Signal Peptidase (SP) and Leptospira Endostatin like A (Len A) in BL-21(DE3) is toxic to the host cells. *Journal of Genetic Engineering and Biotechnology* (Accepted for publication).
2. **T. Jebasingh**, S. Backiyarani, C. Manohari, Archana Somanath, R. Usha (2017). Transformation of cardamom with the RNA dependent RAN polymerase gene of *Cardamom mosaic virus*. *Journal of Applied Biotechnology and Bioengineering*, 3(3): 00066. (IF: 0)
3. Angela Asir Ramasamy Victor, Sunil Abraham, **Jebasingh Tennyson** Nityananda Pradhan (2015). *In silico* prediction and threading based epitope mapping of OmpA-like outer membrane lipoprotein Loa22. *International Journal of Scientific and Engineering Research*, 6 (3): 477-485. (IF: 0).
4. Vikram Kumar, Damodharan S, Eswari PJ Pandaranayaka, Madanan G. Madathiparambil, **T. Jebasingh**. (2014). Molecular modeling and *in-silico* engineering of *Cardamom mosaic virus* capsid protein for the presentation of immunogenic epitopes of *Leptospira* LipL32 in *Journal of Biomolecular Structure and Dynamics*, PMID: 25692534. (IF: 2.919).
5. Angela Asir Ramasamy Victor, Sunil Abraham, Manimaran Nellai Chinniah, Madanan Gopalakrishnan Madathiparambil, **Jebasingh Tennyson**. (2014). Phylogenetic characterization and Threading based-Epitope mapping of Leptospiral Outer Membrane Lipoprotein LipL41 in *Journal of Proteomics & Bioinformatics* 7(8): 222-231. doi: 10.4172/jpb.1000323. (IF: 2.15).
6. **Jebasingh, T.**, Eswari Pandaranayaka, P. J. T., Mahalakshmi, A., Kasin Yadunandam, A., Krishnaswamy, S., Usha, R. (2012). Expression, Purification and Molecular modeling of the NIa protease of *Cardamom mosaic virus* in *Journal of Biomolecular Structure and Dynamics*. PMID: 22888800. (IF: 2.919).
7. **Jebasingh, T.**, Kasin Yadunandam, A., Manna Jose., Backiyarani, S., Krishnaswamy, S & Usha, R. (2011). Molecular modeling and conformational analysis of native and refolded viral genome-linked protein of *Cardamom mosaic virus* in *Indian Journal of Biochemistry & Biophysics* 48, 336-340. (IF: 0.871).
8. **Jebasingh, T.**, Backiyarani, S., Manohari, C. & Usha, R. (2011). Detection of partial genome sequences of *Cardamom mosaic virus* integrated in plant genomes in *Indian Journal of Biotechnology* 10, 369-371. (IF: 0.386).
9. Manohari, C., Backiyarani, S., **Jebasingh, T.**, Archana Somanath, T. & Usha, R. (2008). Efficient plant regeneration in small cardamom (*Elettaria cardamomum* Maton) through somatic embryogenesis in the *Indian Journal of Biotechnology*. 7, 407-409. (IF: 0.386).
10. **Jebasingh, T.**, Jacob, T, Shah, M., Krishnaswamy, S & Usha, R. (2008). Optimized expression, solubilization and purification of nuclear inclusion protein b of Cardamom mosaic virus in *Indian Journal of Biochemistry & Biophysics*. 45, 98-105. (IF: 0.871).
11. Backiyarani, S., Manohari, C., **Jebasingh, T.**, Jacob, T. & Usha, R. (2007). Cloning of coat protein gene of Kursupara isolate of *Cardamom mosaic virus* for developing transgenic virus-resistant cardamom. *Recent Trends in Horticultural Biotechnology*. 693-698.
12. Jacob, T., **Jebasingh, T.**, Venugopal, M. N. & Usha, R. (2003). High Genetic Diversity in the Coat protein and the 3' Untranslated regions among the Geographical Isolates of *Cardamom mosaic virus* from south India in the *Journal of Bioscience*. 28 (5) 589-595. (IF: 2.064)
13. **Jebasingh, T**, Lingakumar, K., Subbaraj, R. & Chandrasekharan, M. K. (2000). Irradiance dependence of UV-A induced phase shifts the locomotor activity of the field mouse *Mus booduga* in the journal *Chronobiology International*, 17 (6) 777-782. (IF: 3.343)

PAPER PRESENTED IN CONFERENCE/SEMINAR/WORKSHOP

S. No	Name of the conference	Date	Place	Title	Author(s)
1	National Workshop on Application of Bioinformatics Tools in Molecular Taxonomic Studies (Phase II)	08.03.18	Lady Doak College, Madurai	Transcriptome profiling of <i>Elettaria cardamomum</i> and Genome-wide identification of small RNAs in <i>Agrobacterium</i>	T. Jebasingh
2	49 th Aqua-Terr Annual Conference on Biological Sciences	27-28 th February, 2018	School of Biological Sciences, Madurai Kamaraj University, Madurai	Identification and characterization of microRNA mediation in Potyviral infections	S. Ramamoorthy and T. Jebasingh
3	49 th Aqua-Terr Annual Conference on Biological Sciences	27-28 th February, 2018	School of Biological Sciences, Madurai Kamaraj University, Madurai	Two-step control of RcsA activity in Phenotypically Alp-strain of <i>Escherichia coli</i> : Regulation at the level of Transcription and Proteolysis.	N. Arul Muthukumaran, M. Karthick, Vikram Kumar, T. Jebasingh, Hussain Munavar
4	49 th Aqua-Terr	27-28 th	School of	Cloning and	Yoga Prabhu,

	Annual Conference on Biological Sciences	February, 2018	Biological Sciences, Madurai Kamaraj University, Madurai	expression of Alpha-Replicase protein of <i>Tomato Leaf curl Virudhunagar virus</i>	S. Karthikeyan, T. Jebasingh
5	49 th Aqua-Terr Annual Conference on Biological Sciences	27-28 th February, 2018	School of Biological Sciences, Madurai Kamaraj University, Madurai	Genome-wide identification of novel small non-coding RNAs in <i>Rhizobium</i> strains	Kasthuri R, Ilamathi R, Manoharan K and Jebasingh T
6	National Conference on Innovations in Modern Biology	27-28 th February, 2017	School of Biological Sciences, Madurai Kamaraj University, Madurai	Genome wide prediction of novel sRNAs responsible for <i>Agrobacterium</i> virulence	Ilamathi Raja, Hariharan, Vikram Kumar, Manoharan Kumarah, S. Kathiresan, Jebasingh Tennyson
7	UGC Autonomy Grant in the Centre for Research and Post Graduate studies in Botany.	24.01.17	Ayya Nadar Janaki Ammal College, Sivakasi on	<i>Agrobacterium</i> -a natural tool for Plant Transformation	T. Jebasingh
8	International Conference on Recent Trends in Microbiology (RTM-2016).	07-08, December, 2016	Alagappa University, Karaikudi,	Development of an on-site diagnostic kit for <i>Cardamom mosaic virus</i>	E. Sangeetha, M. Karthikeyan, U. Ramesh, Thomas Jacob, R. Usha, T. Jebasingh
9	Recent Trends in Biotechnology	10.03.16	Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi	Cloning into Plasmids	T. Jebasingh

10	National Conference on Recent Trends in Modern Biology & 47 th Aqua-terr Annual Conference on Biological Sciences.	27-28 th February 2016	School of Biological Sciences, Madurai Kamaraj University, Madurai	Engineering the coat protein of <i>Cardamom mosaic virus</i> to display the immunogenic LipL32 epitopes of <i>Leptospira</i>	E. Sangeetha, C. Ramya, Vikram Kumar, T. Jebasingh
11	National Conference on Recent Trends in Modern Biology & 47 th Aqua-terr Annual Conference on Biological Sciences.	27-28 th February 2016	School of Biological Sciences, Madurai Kamaraj University, Madurai	<i>In vivo</i> NIa protease assay of <i>Cardamom mosaic virus</i>	Sankara Naynar. P and T. Jebasingh
12	National Conference on Recent Trends in Modern Biology & 47 th Aqua-terr Annual Conference on Biological Sciences.	27-28 th February 2016	School of Biological Sciences, Madurai Kamaraj University, Madurai	Decoding <i>Leptospira</i> sRNAome and its Hfq regiment	Mohammed Sanfar, Vikram Kumar, T. Jebasingh
13	Recent Biochemical Approaches in Therapeutics: RBAT-II (2015)	9-11 th December 2015	Department of Biochemistry, University of Kerala, India	Development of drug and vaccine for Leptospirosis	T. Jebasingh
14	Methods in Plant Virology	7 th -9 th December, 2015	Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi	Resource person	T. Jebasingh
15	National Conference on Recent Trends in Modern Biology & 46 th Aqua-	27-28 February, 2015	School of Biological Science, Madurai Kamaraj	Effort towards the functional characterization of HAT domain in NIa protease	S. Saraswathi, M. Aathira, P. Sanakara Naynar, T. Jebasingh

	Terr Annual Conference		University, Madurai.	of <i>Cardamom mosaic virus</i>	
16	5 th International conference on Proteomics & Bioinformatics	September 1-3, 2015	Valencia, Spain	<i>In silico</i> design of drug and vaccine for Leptospirosis	T. Jebasingh
17	National Seminar on Molecular Biology	27 th September, 2014	Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu	Studies on N1a protease of <i>Cardamom mosaic virus</i>	T.Jebasingh
18	2 nd National conference on Emerging Trends and New Challenges in Biotechnology-A Multidisciplinary Approach (NCETNCB-2014)	19 th and 20 th February, 2014	Department of Biotechnology, M.G.R college, Hosur-635 109, Tamil Nadu	Functional studies on N1a protease of <i>Cardamom mosaic virus</i>	T.Jebasingh
19	International conference on Biotechnology and Bioinformatics	February 1-2, 2014	ICSCCB at Pune, India	Identification of Histone binding motif in N1a protease of <i>Potyviriidae</i>	P. Sankar Nayanar, R. Usha and T. Jebasingh
20	Academies' Lecture Workshop on Recent Research in Biological Sciences, National Science Day & 45 th Aqua-Ter Annual Conference on Biological Sciences	February 27-28, 2014	School of Biological Science, Kamaraj University, Madurai.	Studies on MYST motif of Nuclear inclusion a protease of <i>Cardamom mosaic virus</i>	P. Sankar Nayanar, R. Usha and T. Jebasingh
21	National Science day & 44 th Aqua-	28 th February,	School of Biological	Effort towards to develop a	Vikram Kumar, D. Subha, R.

	Terr Annual conference on Biological Sciences	2013	Sciences, Madurai Kamaraj University, Madurai	vaccine for Leptospirosis with the recombinant CdMV coat protein-LipL32 epitopes	Usha and T. Jebasingh
22	International conference on Biotechnology and Human Welfare	December 6-8, 2013	Department of Biotechnology, School of Chemical and Biotechnology, Sastra University, Thanjavur-613401	Effort towards to identify the cleavage sites between the proteins of Cardamom mosaic virus	Sankar Nayanar, Mohini S, R.Usha and T. Jebasingh
23	6 th Congress of the Federation of the Israel Societies for Experimental Biology - FISEB (ILANIT)	February 7-10, 2011	Eilat, Israel	Energy conversion by membrane proteins outside their membrane context	Dror Noy, Frieda Kopnov, Ilit Cohen-Ofri, Jebasingh Tennyson and Iris Margalit
24	Workshop on Plant Virology in India: Vision 2030	December 7-8, 2011	New Delhi	Molecular Biology of Macluraviruses	T. Jebasingh and R. Usha
25	Satellite meeting to the 15 th International Congress of Photosynthesis	18 th -22 nd August 2010	Tianjin, China,	Hybrid modular design of allophycocyanin antennae with a de novo designed chlorophyll-binding protein	Jebasingh Tennyson, Joanna Grzyb, Ilit Cohen-Ofri, Liron David, Noam Adir and Dror Noy
26	Conference on Whitefly and thrips transmitted	August 27-28, 2010	New Delhi	The BYVMV V2 localizes to plasmodesmata, interacts with viral coat protein and probably acts as a movement	P. Gopal, C. Jeyabharathy, T. Jebasingh, R Usha and Y. Gafni

				protein	
27	4 th International Symposium on Biocontrol and Biotechnology	November 27-29, 2006	Lady Doak College, Madurai.	Efforts towards the development of transgenic cardamom with RNA Dependent RNA Polymerase (NIb) gene of <i>Cardamom mosaic virus</i>	T. Jebasingh, C.Manohari, S.Backyirani, Archana Somanath, Thomas Jacob and R.Usha
28	Science Day & Aqua-Terr Annual	March 4, 2006	School of Biological Sciences, Madurai Kamaraj University, Madurai	Transformation of cardamom with the RNA-Dependent RNA-Polymerase gene (NIb) of Cardamom mosaic virus	T. Jebasingh, C.Manohari, S. Backiyarani and R. Usha
29	Science Day & Aqua-Terr Annual conference	March 5, 2005	School of Biological Sciences, Madurai Kamaraj University, Madurai	Expression, Purification and refolding of the nuclear inclusion proteins of <i>Cardamom mosaic virus</i>	T. Jebasingh, T. Jacob P. Jahnvi and R. Usha
30	National symposium on Molecular diagnostics for the management of viral diseases	October 14-16, 2004	IARI, New Delhi.	Expression Studies on Nuclear Inclusion Proteins of <i>Cardamom mosaic virus</i>	T. Jebasingh, T. Jacob and R. Usha
31	National seminar on recent trends in Plant Biotechnology	17 th -19 th March 2004	Bharathidasan University, Trichy	Transformation of Cardamom with NIb gene of <i>Cardamom mosaic virus</i>	T. Jebasingh, Archana Somanath and R.Usha

32	Science Day & Aqua-Terr Annual conference Madurai	February 28, 2003	School of Biological Sciences, Madurai Kamaraj University,	Molecular characterization of <i>Indian cardamom mosaic virus</i> genome	T. Jebasingh, Thomas Jacob and R.Usha
33	XIV Annual conference and national seminar on management of viral diseases with emphasis on global trade and WTO regime	January 18-20, 2003	Bangalore	Cloning, expression and purification of NIB protein of Cardamom mosaic virus	T. Jebasingh, Thomas Jacob and R.Usha
34	Biotechnology at the turn of the millennium	February 4-5, 2002	Chennai	Studies on the non-structural proteins encoded by <i>Indian cardamom mosaic virus</i> genome	T. Jebasingh and R.Usha

CONFERENCE/WORKSHOP/SEMINAR/TRAINING ORGANIZED

Type	Name	Date(s)	Place	Role Played	Funding Agency
Conference	49 th Aqua-Terr Annual conference on Biological Sciences	27.02.18 & 28.02.18	SBS, MKU	Joint organizing Secretary	-
Winter School	Winter School on Plant viruses as tools in Biotechnology	01.11.11 to 15.11.11	NRCBS, SBS, MKU	Convener	UGC-NRCBS
Winter School	Winter School on Plant Tissue Culture Applications	08.08.11 to 22.08.11	NRCBS, SBS, MKU	Organizing Secretary	UGC-NRCBS

BOOK PUBLISHED

S. No	Title of the Book/Chapter	Author(s)	Publisher	Year	ISBN Number
1	A Century of Plant Virology in India/ Characterisation of the Macluraviruses Occurring in India	S. Vijayanandraj, Bikash Mandal, T. Jebasingh, M. L. Jeeva, T. Makeshkumar, and Yogita Maheshwari.	Springer Publication	2017	978-981-10-5672-7
2	A Century of Plant Virology in India/ Characterisation of Carlaviruses Occurring in India	T. Jebasingh and T. Makeshkumar.	Springer Publication	2017	978-981-10-5672-7
3	Recent Progress in Medicinal Plants/ Antiviral Potentials of Medicinal Plants	T. Jebasingh	Stadium Press LLC, U.S.A	2014	978-93-80012-65-0
4	Natural Products- Drug Development/ Transgenic Plants in Biopharming	T. Jebasingh	Stadium Press (India) Pvt. Ltd	2014	978-93-80012-65-0

MEMBERSHIP IN ACADEMIC BODIES

Aqua-Terr Society for Biological Sciences

MEMBERSHIP IN PROFESSIONAL BODIES

Indian Virological Society

INTELLECTUAL PROPERTY RIGHTS (Patents)

Nil

ADMINISTRATIVE EXPERIENCE

Nil

CONTACT

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