

## DrGnanaraj M

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|      |               |                                      |      |
|------|---------------|--------------------------------------|------|
| M.Sc | BIOTECHNOLOGY | Avs College Of Arts & Science, Salem | 2009 |
| B.Sc | BIOTECHNOLOGY | Avs College Of Arts & Science, Salem | 2007 |

### Ph.D. Details

#### Title of Thesis

Characterization and expression analysis of PLC & PLD genes during abiotic stress and somatic

embryogenesis in green gram, Vigna radiata (L.)

Wicak. K. MANOHARAN

#### Area of Specialization

Plant tissue culture, Stress Signalling

#### Research Centre

MADURAI KAMARAJ UNIVERSITY, MADURAI

#### Year of Award

FEBRUARY 2019

### Additional Qualification

| Name of Course                        | Place of Study                                       | Date          | Duration |
|---------------------------------------|--|---------------|----------|
| MBA                                   | BHARATHIAR UNIVERSITY,<br>COIMBATORE                 | MAY 2011      |          |
| FREEHAND OUTLINE AND MODEL<br>DRAWING | DIRECTORATE OF GOVERNMENT<br>EXAMINATIONS, TAMILNADU | FEBRUARY 2003 |          |

### Teaching / Research Experience

U.G. : 1 Year      P.G. : 1 Year      M.Phil.      Ph.D.

### Research Guidance

U.G. : 12      P.G. : 3      M.Phil. :      Ph.D. :

## Table of Contents

|     |   |       |
|-----|---|-------|
| 1.  | <b>Conferences / workshops / Seminars Attended</b>  | 8     |
| 2.  | <b>Research Papers Presented</b>                    | 9     |
| 3.  | <b>Publication in Journals</b>                      | 6     |
| 4.  | <b>Publication in Books</b>                         | 0     |
| 5.  | <b>Books Published / Edited</b>                     | 0     |
| 6.  | <b>Conferences / Workshops / Seminars Organised</b> | 0     |
| 7.  | <b>Research Projects</b>                            | 0     |
| 8.  | <b>Resource Person</b>                              | 0     |
| 9.  | <b>Consultancy</b>                                  | 0     |
| 10. | <b>Awards Recieved</b>                              | 1     |
| 11. | <b>Patent</b>                                       | 0     |
| 12. | <b>Extension Activities Undertaken</b>              | 0     |
| 13. | <b>Professional Membership</b>                      | 0     |
| 14. | <b>M.Phil. / Ph.D. Produced</b>                     | 0 / 0 |

1. National level Workshop on **"Digital Teaching Techniques"** sponsored by ICT Academy organized by ICT Academy at during 23/11/2020 to 28/11/2020.
2. National level Orientation on **"Application of Next-Generation Sequencing Technologies in Microbial Genomics"** sponsored by Sathyabama Institute of Science and Technology organized by Sathyabama Institute of Science and Technology at Chennai during 19/10/2020 to 25/10/2020.
3. International level Workshop on **"Computational Modelling Techniques in Structural Biology"** sponsored by DBT organized by Indian Institute of Sciences at Bangalore during 02/08/2017 to 03/08/2017.
4. National level Seminar on **"Recent Trends in Modern Biology & 47th Aqua-Terr Annual Conference"** sponsored by DBT organized by Madurai Kamaraj University at Madurai during 27/02/2016 to 28/02/2016.
5. International level Conference on **"3rd International Plant Physiology Congress 2015"** sponsored by DBT organized by Jawaharlal Nehru University at New Delhi during 11/12/2015 to 14/12/2015.
6. National level Workshop on **"Research Methodology in Science"** sponsored by UGC organized by Madurai Kamaraj University – 625 021 at Madurai during 23/06/2014 to 28/06/2014.
7. International level Conference on **"Application of gene Technology"** sponsored by DBT organized by Abdur Rehman University at Chennai during 05/03/2014 to 06/03/2014.
8. National level Workshop on **"Plant Tissue Culture: A biotechnology Tool"** sponsored by UGC organized by Madurai Kamaraj University at Madurai during 03/03/2014 to 01/01/1900.



1. **"Endomofauna assessment of Vigna radiata agro-ecosystem of Tamilnadu, India"** in the National conference on *Sustainability of Resources: Spacial challenges using geospatial technologies* sponsored by ICSSR, organized by School of Earth and Atmospheric Sciences at Madurai Kamaraj University, Madurai during 10/04/2018 to 10/05/2018.
2. **"Comparative analysis of protein profiles of the embryogenic and non-embryogenic callus cultures of green gram"** in the National conference on *Innovations in modern biology & 48th Aqua-Terr Annual Conference* sponsored by DST, organized by School of Biological Sciences at Madurai Kamaraj University, Madurai during 26/07/2017 to 27/07/2021.
3. **"Polyethylene glycol promoted in vitro somatic embryogenesis in green gram [Vigna radiata (L.) Wilczek]"** in the International conference on *Plant Cells in Vitro: Fundamentals & Applications II* sponsored by , organized by VISEA at AUSTRIA during 26/07/2017 to 27/07/2021.
4. **"Isolation and in silico characterization of cDNA encoding Phospholipase D from Vigna radiata"** in the National conference on *Innovations in modern biology & 48th Aqua-Terr Annual Conference* sponsored by DST, organized by School of Biological Sciences at Madurai Kamaraj University, Madurai during 27/02/2017 to 28/02/2017.
5. **"Changes in Phospholipase D activity during the induction of somatic embryogenesis in Vigna radiata (L.) Wilczek"** in the International conference on *3rd International Seminar on "Nuance in Life Sciences" (NLS – 2017)* sponsored by , organized by Sri Ganesh College of Arts and Science at Salem during 09/02/2017 to 05/02/2016.
6. **"Ploidy level analysis in embryogenic and non-embryogenic callus lines of green gram, Vigna radiata (L.) Wilczek"** in the International conference on *2nd International Seminar on "Bioscience – Elixir of life" (BSEL - 2016)* sponsored by , organized by Sri Ganesh College of Arts and Science at Salem during 05/02/2016 to 05/02/2016.
7. **"Characterization of phosphoinositide signalling pathway enzymes in response to abiotic stress from Vigna radiata (L.) Wilczek"** in the International conference on *Bioscience – Elixir of life" (BSEL - 2016)* sponsored by , organized by Sri Ganesh College of Arts and Science at Salem during 05/02/2016 to 05/02/2016.
8. **"Isolation and gene expression analysis of in response to abiotic stresses from Vigna radiata (L.) Wilczek"** in the International conference on *Emerging trends in Biotechnology* sponsored by DBT, organized by BRSI at Jawaharlal Nehru Univerisity, New Delhi during 06/11/2014 to 09/11/2014.
9. **"Changes in Phospholipase C activity during the induction of somatic embryogenesis in of green gram, Vigna radiata (L.) Wilczek"** in the International conference on *International conference on "Biosciences: State of the Art Advancements"* sponsored by , organized by Society for Educational & Scientific Research at Kumarakom during 12/09/2014 to 13/09/2014.

1. **"Isolation and characterization of phospholipase D in response to abiotic stress from Vigna radiata (L.) Wilczek"** published in Plant gene (PEER REVIEW) Vol. 27, Issue No. , September 2021 ISSN : 2352-4073.  
Impact factor , Scopus Index 21100388318, h - index 17, Citation index 4.3
2. **"Immunological circuits against biotic and abiotic stresses among plants: an analytical review"** published in Plant gene (PEER REVIEW) Vol. 27, Issue No. , September 2021 ISSN : 2352-4073.  
Impact factor , Scopus Index 21100388318, h - index 17, Citation index 4.3
3. **"A microdroplet cell culture based high frequency somatic embryogenesis system in pigeon pea, Cajanus cajan (L.) Millsp"** published in Indian Journal of Experimental Biology (PEER REVIEW) Vol. 53, Issue No. 9, September 2015 ISSN : 19957645.  
Impact factor , Scopus Index 15196, h - index 67, Citation index 1.57
4. **"A microdroplet cell culture based high frequency somatic embryogenesis system in pigeon pea, Cajanus cajan (L.) Millsp"** published in Indian Journal of Experimental Biology (PEER REVIEW) Vol. 53, Issue No. 9, September 2015 ISSN : 19957645.  
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5. **"A microdroplet cell culture based high frequency somatic embryogenesis system in pigeon pea, Cajanus cajan (L.) Millsp"** published in Indian Journal of Experimental Biology (PEER REVIEW) Vol. 53, Issue No. 9, September 2015 ISSN : 19957645.  
Impact factor , Scopus Index 15196, h - index 67, Citation index 1.57
6. **"Alternate paradigms on Zika virus-related complications: An analytical review"** published in (PEER REVIEW) Vol. 10, Issue No. 7, January 1900 ISSN : 19957645.  
Impact factor , Scopus Index 19700169713, h - index 52, Citation index 4.4

## Awards Recieved

- 1

| Award Name                   | Presented by | Year       | Level         | Instituted by / Place | amount |
|------------------------------|--------------|------------|---------------|-----------------------|--------|
| International travel support | DST-SERB     | 01/07/2017 | INTERNATIONAL |                       | 108977 |

**Signature of Staff**  
**(Gnanaraj M)**