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**V.VASUDEVAN, M.Sc., Ph.D.,**

**Assistant Professor,**

Department of Biotechnology,  
A.V.C.College (Autonomous),  
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Tamil Nadu, India.

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### **Career Objective**

Looking for a most suitable position where my skills and qualification match that can help me to build a dynamic career. To accept the challenging assignment in the area of biotechnology to make a mark for myself in today expanding horizons of the global business scenario.

### **Academic Qualifications**

**Ph.D., Biotechnology:** (2012-2018), Department of Biotechnology,  
Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu, India.

**M.Sc., Biotechnology: 75%** with Distinction (2006-2008),  
A.V.C.College (AUTONOMOUS), Mayiladuthurai,  
Affiliated to Bharathidasan University, Tiruchirappalli-24.

**B.Sc., Botany:** 73% (2002-2005), A.V.C.College (AUTONOMOUS), Mayiladuthurai,  
Affiliated to Bharathidasan University, Tiruchirappalli-24.

### **Ph.D. Thesis:**

“Overexpression of the *CHSP* gene, improves salt tolerance in transgenic watermelon (*Citrullus lanatus* Thunb.)”.

### **Teaching Experience:**

**Designation:** “Assistant Professor”

**Institution:** A.V.C College (Autonomous), Mannampandal, Mayiladuthurai.

**Period:** 3 years (June 2009 - April 2012), June 2018 to till now.

## **Industrial Experience**

**Designation:** “Production In-charge”

**Nature of work:** Production of bioproducts such as biofertilizers and biopesticides

**Company:** Mani Dharma Biotech Pvt Ltd, Porur, Chennai-600 116.

**Period:** One Year (June 2008 - May 2009)

## **Research Experience**

- Working as a University Research Fellow in Department of Biotechnology, School of Biotechnology, Bharathidasan University, Tiruchirappalli-24 from April 2013 to April 2016.

## **Highlights of Research:**

- Developed direct organogenesis protocol for watermelon cultivar using cotyledonary node as explants.
- Standardized *Agrobacterium* mediated gene transfer protocols in watermelon.
- Optimized the factors influencing *Agrobacterium* mediated genetic transformation.

## **Research Publications:**

1. Dhandapani Elayaraja, Kondeti Subramanyam, **Venkatachalam Vasudevan**, Sathish Selvam, Sampath Kasthuriangan, Andy Ganapathi, Markandan Manickavasagam (2019). Meta-Topolin (mT) enhances the *in vitro* regeneration frequency of *Sesamum indicum* (L.). Physiology and Molecular Biology of Plants (**Impact Factor – 1.151**)
2. Dorairaj Sathish, Jeevaraj Theboral, **Venkatachalam Vasudevan**, Gadamchetty Pavan, Chandrasekaran Ajithan, Chinnaswamy Appunu, Markandan Manickavasagam (2019). Exogenous polyamines enhances the somatic embryogenesis and *Agrobacterium*-mediated transformation efficiency in sugarcane (*Saccharum officinarum* L.). In Vitro Cellular & Developmental Biology-Plant. (**Impact Factor – 1.057**)
3. Dorairaj Sathish, **Venkatachalam Vasudevan**, Jeevaraj Theboral, Dhandapani Elayaraja, Chinnaswamy Appunu, Ramamoorthy Siva, Markandan Manickavasagam (2018). Efficient direct plant regeneration from immature leaf roll explants of sugarcane (*Saccharum officinarum*

L.) using polyamines and assessment of genetic fidelity by SCoT markers. In Vitro Cellular & Developmental Biology-Plant. (**Impact Factor – 1.057**)

4. **Venkatachalam Vasudevan**, Markandan Manickavasagam (2018). Effect of salinity on growth, photosynthetic pigments and antioxidant activity in watermelon (*Citrullus lanatus* Thunb.). International Journal for Research in Applied Science & Engineering Technology 6(2): 2024-2032. (ISSN: 2321-9653).

5. **Venkatachalam Vasudevan**, Kondeti Subramanyam, Dhandapani Elayaraja, Sivabalan Karthik, Ayyappan Vasudevan, Markandan Manickavasagam (2017). Assessment of the efficacy of amino acids and polyamines on regeneration of watermelon (*Citrullus lanatus* Thunb.) and analysis of genetic fidelity of regenerated plants by SCoT and RAPD markers. Plant Cell, Tissue and Organ Culture (PCTOC). 130 (3):681-687. (**Impact Factor – 2.004**)

6. Gnanajothi Kapildev, Arunachalam Chinnathambi, Ganeshan Sivanandhan, Manoharan Rajesh, **Venkatachalam Vasudevan**, Subramanian Mayavan, Muthukrishnan Arun, Murugaraj Jeyaraj, Sulaiman Ali Alharbi, Natesan Selvaraj, Andy Ganapathi (2016). High efficient *Agrobacterium*-mediated in planta transformation in black gram (*Vigna mungo* (L.) Hepper). Acta Physiologiae plantarum. 38: 205. (**Impact Factor – 1.438**)

7. Ganeshan Sivanandhan, Chinnathambi Arunachalam, **Venkatachalam Vasudevan**, Gnanajothi Kapildev, Ali Alharbi Sulaiman, Natesan Selvaraj, Andy Ganapathi, Yong Pyo Lim (2016). Factors affecting *Agrobacterium*-mediated transformation in *Hybanthus enneaspermus* (L.) F.Muell. Plant Biotechnology Reports. 10(2): 49-60. (**Impact Factor – 1.301**)

8. Ganeshan Sivanandhan, **Venkatachalam Vasudevan**, Natesan Selvaraj, Yong Pyo Lim, Andy Ganapathi, (2015). L-Dopa production and antioxidant activity in *Hybanthus enneaspermus* (L.) F. Muell regeneration. Physiology and Molecular Biology of Plants. 21(3): 395-406. (**Impact Factor – 1.151**)

9. Manoharan Rajesh, Ganeshan Sivanandhan, Muthukrishnan Arun, **Venkatachalam Vasudevan**, Jeevaraj Theboral, Shanmugam Girija, Markandan Manickavasagam, Natesan

Selvaraj, Andy Ganapathi (2014). Factors influencing podophyllotoxin production in adventitious root culture of *Podophyllum hexandrum* Royle. *Acta Physiologiae Plantarum*. 36(4): 1009-1021. (**Impact Factor – 1.438**) <https://doi.org/10.1007/s11738-013-1479-3>

10. Shantha Margaret, Uma Maheswari, Ambethkar, **Vasudevan**, Sivannadhan, Selvaraj (2014). Direct regeneration of multiple shoots from nodal explants of West Indian Gherkin (*Cucumis anguria* L.). *International Journal of Innovative Research in Science, Engineering and Technology* 3(6): 13876-13881. (**ISSN: 2319-8735**).

### **Publications (communicated)**

1. Manickavasagam Markandan, Pavan Gadamchetty, **Vasudevan Venkatachalam** (2019). A comprehensive study of the hormetic influence of biosynthesized AgNPs on regenerating rice calli of indica cv. IR64. *Scientific Reports (Minor Revision)* (**Impact Factor – 4.122**)

2. **Vasudevan Venkatachalam**, Ramamoorthy Siva, Veda Krishnan, Markandan Manickavasagam (2019). Polyamines, Sonication and Vacuum Infiltration enhances the *Agrobacterium*-mediated Transformation in Watermelon (*Citrullus lanatus* L. Thunb). *South African Journal of Botany (Under Review)* (**Impact Factor – 1.442**)

3. Sathish Selvam, **Vasudevan Venkatachalam**, karthik Sivabalan, Pavan Gadamchetty, Manickavasagam Markandan (2019). Enhanced L-Dopa production from elicited cell suspension culture of *Hybanthus enneaspermus* (L.) F. Muell. *Plant Biotechnology Reports (Under Review)* (**Impact Factor – 1.301**)

4. Pavan Gadamchetty, karthik Sivabalan, Sathish Selvam, Elayaraja Dhandapani, **Vasudevan Venkatachalam**, , Manickavasagam Markandan (2019). Enhancement of genetic transformation efficiency in indica rice cultivar IR64 by vacuum infiltration and exogenous application of polyamines. *Journal of Plant Biochemistry and Biotechnology (Under Review)* (**Impact Factor – 0.774**).

### **Faculty Development Program**

1. Participated in Faculty Development Program on “**Funcional Nanomaterials-Synthesis and Characterisation**” conducted by School of Chemistry & Biotechnology on 19-20<sup>th</sup> December, 2011 at SASTRA University, Thanjavur.

### **Paper Presented in Seminar and Conferences**

1. Oral presentation in the title of “**Overexpression of the *ClHSP* gene, improves salt tolerance in transgenic watermelon (*Citrullus lanatus* L.)**” in Indian Plant Science Congress organized by SRM Institute of Science and Technology, Chennai, during 23-25 January, 2019.
2. Oral Presentation in the title of “**An efficient *Agrobacterium rhizogenes* mediated hairy root culture in watermelon (*Citrullus lanatus* Thunb.) Var. Crimson Heart.**” in the TEQIP II Sponsored International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS’ 2017) jointly organized by the Departments of Biotechnology, Chemistry and Physics, held at Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli during March 13<sup>th</sup> to 15<sup>th</sup>, 2017.
3. Poster presentation in the title of “**Effect of salt treatment on growth, photosynthetic pigments and antioxidant enzyme activity of Cucumber (*Cucumis sativus* L.)**” in the “National Conference on Emerging Trends in Plant Science” organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli during 10-11 March, 2016.
4. Poster presentation in the title of “**Positive role of meta-topolin on *in vitro* regeneration of watermelon using cotyledonary node as explants**” in the International Conference of Biodiversity and Biotechnology (ICBB-2016) organized by , Department of Biotechnology, Bharathidasan University, Tiruchirappalli during 25<sup>th</sup> -27<sup>th</sup> February, 2016.
5. Oral Presentation in the title of “ ***Agrobacterium* mediated genetic transformation of watermelon**” in International Symposium on new perspectives in Modern Biotechnology organized by Society for Applied Biotechnology, Puducherry during 23<sup>rd</sup> to 25<sup>th</sup> March 2015.

6. Oral Presentation in the title of “ **Screening of antibacterial activity of *Solanum nigrum***” in National Seminar on trends in Modern Biology organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli during 15<sup>th</sup> March, 2007.
7. Poster Presentation in the title of “ **RNA Interference- A gene silencing process**” in Current Scenario in Biological Sciences organized by Department of Biochemistry, Pavendar Bharathidasan College of Arts and Science, Tiruchirappalli during 120<sup>h</sup> February, 2007.
8. Oral Presentation in the title of “ **Invitro multiple shoot production from cotyledon explants of *Cucumis sativus* L.**” in One –Day National Seminar on Thrust Areas in Biotechnology organized by Department of Biotechnology, Bishop Heber College (Autonomous), Tiruchirappalli during 19<sup>th</sup> September, 2006.

### **Workshop Attended**

1. UGC & DBT sponsored National seminar cum workshop on “**Genomics and Proteomics-2019**” organized by Department of Biotechnology, Alagappa University, Karaikudi during 06-08 February 2019.
2. Two days Workshop on “**Computer-Aided Drug and Biologics Discovery**” organized by University Informatics Centre, Bharathidasan University, Tiruchirappalli during 16<sup>th</sup> and 17<sup>th</sup> November 2015.
3. Workshop on “**Plant Molecular Farming**” organized by Plant Genetic Engineering Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India held during 13<sup>th</sup> and 14<sup>th</sup> March 2014.
4. UGC-NRCBS sponsored Winter School on “**Plant Cell Culture**” organized by School of Biological Sciences, Madurai Kamaraj University, Madurai, during 08<sup>th</sup> -22<sup>nd</sup> October, 2012.
5. One day workshop and hands-on training in “**Fermentor Operations and Analysis**” organized by Department of Biotechnology, National College (Autonomous), Tiruchirappalli, during 4<sup>th</sup> February, 2012.

6. UGC sponsored workshop on “Molecular Biological Tools and Techniques” jointly organized by Research and Development Cell, A.V.C.College and Department of Microbiology, Bharathidasan University, Tiruchirappalli, during 29<sup>th</sup> January, 2011.
7. State level hands-on training cum workshop on “**Essentials of Molecular Biology**” organized by Department of Biotechnology and Biochemistry, E.G.S.Pillay Arts & Science College, Nagapattinam, during 2<sup>nd</sup> to 7<sup>th</sup> March, 2011.

### **Short Term Training Course**

1. DBT sponsored Short Term Training Course on “**Plant Genetic Engineering**” organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli during 27<sup>th</sup> November to 13<sup>th</sup> December 2013.
2. UGC Sponsored XXVI Winter School on “**Plant Cell Culture**” organized by UGC-Networking Resource Centre in Biological Sciences, Madurai Kamaraj University, Madurai during 8<sup>th</sup> to 22<sup>nd</sup> October 2012.

### **Seminars and Conference attended**

1. Participated in “**One Day National Conference on Future Scenario of Food Nanotechnology**” organized by Department of Microbiology, A.V.C.College, Mayiladuthurai, on 11th January, 2012.
2. Participated in National seminar on “E-Waste Management in India- Issues and challenges” organized by EXNORA and NSS of Ayya Nadar Janaki Ammal College, Sivakasi, on 12th October, 2011.
3. Participated in “**One Day National Conference on Future Scenario of Food Nanotechnology**” organized by Department of Microbiology, A.V.C.College, Mayiladuthurai, on 11th January, 2012.
4. Participated in **One day Lecture Series on “Intellectual Property Rights**” organized by Centre of Bioresource Research and Development, Sathyabama University, Chennai, on 27<sup>th</sup> August, 2010.

5. Participated in National Seminar on “**The Present Scenario in Biodiversity, Biotechnology and Environmental Management**” organized by Department of Biotechnology, Botany and Environmental Science, J.J.College of Arts and Science, Pudukkottai, on 6<sup>th</sup> and 7<sup>th</sup> March, 2008.
6. Participated in The National Level Intercollegiate Seminar on “**Modern Biological Sciences**” organized by Department of Sciences,SNMV College of Arts and Science, Coimbatore, on 31<sup>st</sup> January 2007.
7. Participated in UGC sponsored National Symposium on “**Grow More Biotechnology for Human and Biosphere Development**” organized by Department of Advanced Zoology and Biotechnology, Sri Paramakalyani College, Alwarkurichi, on 14-15<sup>th</sup> September 2006.

### **Computer Knowledge**

MS Office – word, Excel, Power Point, DTP, Bioinformatics Tools

### **Personal Profile**

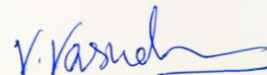
Date of Birth : 20.07.1985  
Gender : Male  
Marital Status : Single  
Languages known : Tamil, English  
Nationality : Indian

### **Declaration**

I hereby declare that the above information given by me is true to the best of my knowledge.

Place: Mannampandal

Yours faithfully,



**(V.VASUDEVAN)**