

## CURRICULAM VITAE

Name : **Dr. J. SEBASTINRAJ**  
Qualification : M.Sc., Ph.D  
Designation : Assistant Professor & *Member In-charge*  
Age & Date of Birth : 43 years old & 08-05-1978  
Sex : Male  
Marital Status : Married  
Nationality : Indian  
Religion : Christian  
Father' s Name : Joseph



### **Address for Communication Office**

Assistant Professor & MID  
Department of Biotechnology  
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### **Residence**

No: 12, Lakshmpuram, III Street,  
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Cell Phone No. 9095159383

### **Educational qualification**

S.no	Class / Degree	Name of the Institution	Year of Passing	Class
1	SSLC	Sacred Heart Higher Sec. School, Ponmalaipatti, Tiruchirappalli.	1993	Second (58.40%)
2	HSC	Govt. Boys Higher Sec. School, Katturpapakurichi, Tiruchirappalli.	1995	First (60.58%)
3	B.Sc	St. Joseph' s College, (Autonomous), Tiruchirappalli	1999	First (60.22%)
4	M.Sc	St. Joseph' s College, (Autonomous), Tiruchirappalli	2001	Second (58.59%)
5	Ph.D	St. Joseph' s College, (Autonomous), Tiruchirappalli	2008	Highly Commended.

**Title of the Ph.D thesis**

Asymbiotic seed germination and Micropropagation of selected orchid species from the Western Ghats of Tamil Nadu, India.

**Title of the M.Sc thesis**

*In vitro* regeneration of *Vanilla planifolia* Andr. And their Antimicrobial Activity.

**Teaching experience : 14 Years**

- From June 2007 to April 2009 working as a Lecturer in Department of Biotechnology, Mahendra Arts and Science College, Kalippatti, Namakkal(Dt).
- From June 2009 to till date working as a Assistant Professor in Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli.

**Teaching Experience in Environmental Centre**

- From June 2006 to December 2006 working as a Teacher (imparting environmental awareness to School and College students) in Anglade Institute of Natural History (AINH), Shembaganur, Kodaikanal.

**Research Experience**

- **Junior Research Fellow** (JRF) in a Research and development project sponsored by the Department of Science and Technology, Government of India, New Delhi. The Project was Popularization of Orchid floriculture among rural masses by the adoption of Mycorrhizal fungal technology from 2004 to 2007 at Rapinat Herbarium and centre for Molecular systematics, St.Joseph' s College, Tiruchirappalli.

**University Teaching Staff Approval**

- Department of Biotechnology, Periyar University, Salem.
- Department of Botany and Department of Biotechnology, Bharathidasan University, Tiruchirappalli.

**Organizing Secretary in Seminars at JMC**

1. National Seminar on RTLS – 2015, 25<sup>th</sup> February, 2015.
2. International Seminar on ETBR- 2018, 3<sup>rd</sup> March, 2018.

### **Membership in Jamal Mohamed College (JMC)**

1. *Member In-charge (MID)* of Biotechnology Department Since December, 2013 to till date
2. Meeladunnabi function – vice-president (2015)
3. Students Healthcare Centre (since 2016 to till date)
4. Academic council member (Since 2018 to till date)
5. College Staff Association (department in-charge)
6. Department Association activity
7. IQAC (department in-charge)
8. NIRF (department in-charge)
9. Department Library In-charge (Since 2010 to 01.08.2021)

### **Research Adviser**

- Guiding PhD Scholars (from 2010 onwards) in Biotechnology from Bharathidasan University, Tiruchirappalli.

### **M.Phil Students awarded under my guidance**

- ✓ C.Deepa,(2012) *In vitro* culture studies and antimicrobial activities of *Coleus aromaticus* Benth.- A valuable medicinal plant.
- ✓ S.Deborah, (2012) Biodegradation of distillery effluent by plant and microbes.
- ✓ P.Gomathi, (2013) phytochemical analysis, antibacterial and anticancer activity of *Dodonaea viscosa* Linn.
- ✓ S.Supaida, (2014) Drug activity studies in chemical component of *Alpinia calcarata* Rosc.
- ✓ M.Nithya, (2014) Phytochemical screening and comparative analysis of *In vitro* Antidiabetic activity of *Wattakaka volubilis* Linn. and *Gymnema sylvestre* Linn.
- ✓ Ms. Shahanaz Begum, (2015) *In vitro* Antidiabetic Activity of *Psidium guajava* Linn. and *Syzygium cumini* Linn.
- ✓ B.Maheswaran, (2019) Dengue drug designing and SiO<sub>2</sub> nano-particles assessment for the selected plant compounds against Dengue vector.

### **Ph. D pursuing students**

- ✓ Ms. D. Vithya, Asst. Professor, JJ College, Pudukkottai.
- ✓ Ms. D. Deepalakshmi, Asst. Professor, Sri Sarada Niketan College, Karur.
- ✓ Ms. Ruth Daniel (NRI) Faculty of Natural Science, Dept. of Biology, University of Guyana, South America.
- ✓ Mr. B.Maheswaran, Asst. Professor, ANJAC, Sivakasi.

### **Acted as Resource Person**

- Act as a resource person in TNSCST sponsored “ Creation of Scientific awareness to the Nagapattinam (District) School Students” on 28<sup>th</sup> June, 2012, conducted by Department of Chemistry, AVC College (Autonomous), Mayilladuthurai.
- Act as a resource person in TNSCST sponsored “ Creation of Scientific awareness to the students” on 17 & 18 July, 2012 conducted by Department of Zoology, Periyar EVR College (Autonomous), Tiruchirappalli – 620020.
- Acted as resource Person in the ‘ In-service Training Programme for Secondary Grade Science Teachers’ sponsored by TNSCST, Chennai and organized by Dept. of Biotechnology, Dhanalakshmi Srinivasan college of Arts and Science for women, Perambalur, held during 3<sup>rd</sup> – 7<sup>th</sup> August, 2015.
- Acted as a resource Person in Biotechnology Department Association activity in Cauvery College, Tiruchirappalli on 12<sup>th</sup> September, 2018.
- Acted as a resource Person in Microbiology department Association activity in Dhanalakshmi Srinivasan College of Arts and Science, Perambalur on 20<sup>th</sup> September, 2018.

### **Board of Studies member (BOS)**

- **Subject Expert** for UG and PG Biotechnology Board of Studies (BOS) meeting in PG & Research Department of Biotechnology, Mahendra Arts and Science College (Autonomous), Namakkal.

### **Certificate of Appreciation by IQAC in JMC**

- For acting as a resource person, in the Dept. of Chemistry, AVC College (Autonomous), Mayilladuthurai in the year 2012 - 2013.
- For acting as a resource person, in the Dept. of Zoology, Periyar EVR College (Autonomous), Tiruchirappalli in the year 2012 - 2013.
- For acting as a resource person, in the Dept. of Biotechnology, Dhanalakshmi Srinivasan college of Arts and Science for women, Perambalur in the year 2015 - 2016.
- For conducting National Seminar on RTLS – 2015, in the Dept. of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli in the year 2015.
- For conducting International Seminar on ETBR- 2018, in the Dept. of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli in the year 2017-2018.

- For Published two papers in the UGC- approved refereed journal during 2017-2018.
- For Published a papers in the UGC- approved refereed journal during 2018-2019.

#### **Doctoral Committee (DC) member for Ph.D Scholars**

- Mr. K. Ramanathan, Ph.D Scholar, Dept. of Biotechnology, Srimad Andavan Arts and Science College, Trichy.
- Ms. J. Bhuvaneshwari, Ph.D Scholar, Dept. of Biotechnology, Srimad Andavan Arts and Science College, Trichy.
- Ms. B. Vasuki, Ph.D Scholar, Dept. of Biotechnology, Srimad Andavan Arts and Science College, Trichy.
- Ms. T. Padmadevasena, Ph.D Scholar, Dept. of Biotechnology, Srimad Andavan Arts and Science College, Trichy.
- Ms.G. Tharani, Ph.D Scholar, Dept. of Biotechnology, Bharath College of Science and Management, Thanjavur.
- Ms. D. Benasir, Ph.D Scholar, Dept. of Biotechnology, Bharath College of Science and Management, Thanjavur.
- Ms. Uma Maheswari, Ph.D Scholar, Dept. of Biotechnology, Srimad Andavan Arts and Science College, Trichy.

#### **Acted as Judge in events**

- Acted as Jury in the event of CARTOONIST in Animalia -2K19 (A state level inter collegiate Extravaganza), organized by the PG & Research Department of Zoology, Jamal Mohamed College (Autonomous), Tiruchirappalli, held on 10<sup>th</sup> October, 2019.

#### **Paper publication in National and International Journals**

1. Francis Xavier, T., Senthilkumar, S., Okoh, A.I and **Sebastinraj J.** (2003). Antibacterial activity of *Malaxis reedi* Sw. An ornamental orchid of Shervaroy Hills of Eastern Ghats, South India. Science Focus (Nigeria) 5: 82-88.
2. **Sebastinraj J.**, Senthilkumar, S and John Britto, S. (2004). *In vitro* propagation of *Vanilla planifolia* Andr. (Orchidaceae). Biodiversity and Conservation. Ed. John Britto S, The Rapinat Herbarium. 306-309.
3. John Britto, S., Senthilkumar, S., **Sebastinraj J.**, Philip Robinson, J and Vinothkumar, D. (2004) *In vitro* Seed germination, Protocorm Growth and Development of *Dendrobium aqueum* Lindl. RETELL. Vol: 5, No: 1.

4. **Sebastinraj, J.**, John Britto, S., Philip Robinson, J., Vinoth Kumar, D and Senthilkumar, S. (2006) *In vitro* seed germination and plantlet Regeneration of *Coelogyne mossiae* Rolfe. Journal of Biological Research. 5: 79-84.
5. Philip Robinson, J., John Britto, S., **Sebastinraj J.**, Vinoth Kumar, D and Senthilkumar, S. (2006). Micropropagation of *Emilia zeylanica* C.B.Clarke, by using explants of Inflorescence rachis. Journal of Biological Research. 5: 79-84.
6. Philip Robinson, J., Balakrishnan, V., **Sebastinraj J** and John Britto, S. (2009). Antimicrobial Activity of *Alphinia calcarata* Rosc. And characterization of new  $\alpha,\beta$  unsaturated carbonyl compounds. Advances in Biological Research. 3(5-6): 185-187.
7. Vinoth Kumar , D., John Britto, S., **Sebastinraj J.**, Philip Robinson, J., and Senthil Kumar, S. (2009). Callus regeneration from stem explants of *Pseudarthira viscida* (L.) Wight and Arn. – A vulnerable medicinal plant. African Journal of Biotechnology. Vol. 8(17), PP. 4048-4051.
8. **Sebastinraj J** and Inayath Sidique, K.M., (2011). *In vitro* rapid clonal propagation of *Aristolochia bracteolate* Lam. (Aristolochiaceae). – a valuable medicinal plant. World Journal of Agricultural Sciences. 7 (6): 653-658.
9. **Sebastinraj J.**, John Britto S and Senthil Kumar S R., (2013). Micropropagation of *Operculina turpethum* (Linn.) Silva Manso. Using Cotyledonary node explants. Academic Journal of Plant Sciences. 6 (2): 77-81.
10. **Sebastinraj J** and Muhirkuzhali, S (2014). Asymbiotic seed germination and Micropropagation of *Spathoglottis plicata* Blume. International Journal of Advances in Pharmacy, Biology and Chemistry. 3(2); 495-501.
11. **Sebastinraj J**, John Britto, S., Vinoth Kumar, D., Philip Robinson J and Thangavel P. (2014). Rapid Propagation of *Vanda testacea* (Lindl.) Rchb.F. – A Highly Medicinal Value Epiphytic Orchid of India. World Journal of Agricultural Sciences 10 (5): 223-230.
12. Deborah, S and **Sebastinraj J** (2016). Bioremediation of heavy metals from distilleries effluent using microbes. Journal of Applied and Advanced Research, 1 (2): 23-28.
13. Philip Robinson, J, Jyoti Prasad Kakati, **Sebastinraj J**, Suriya K (2017). *In vitro* seed germination of *Cymbidium aloifolium*(L.) sw., a potential medicinal orchid

- from Eastern Ghats of Tamil nadu, India. Journal of Plant Biotechnology 44(3):343– 348.
14. Mythili R, Selvankumar T, Srinivasan P, Sengottaiyan A, **Sebastinraj J**, FuadAmeen, AhmedAl-Sabri, S.Kamala-Kannan, M.Govarthanan (2018). Biogenic synthesis, characterization and antibacterial activity of gold nanoparticles synthesised from vegetable waste, Journal of Molecular Liquids, (262) 318-321.
  15. Sugapriya Menaga Paulraj, Maheswaran Baskaran, Sakkanan Ilango, Geetha Paramasivam and **Joseph Sebastinraj**, (2020). Insilico and proteomic analysis of Dengue vector Midgut proteins treated by *Aegle marmelos* Bioactive compounds, International Journal of Research in Advent Technology, Vol.8 (6).
  16. Vithya D and **Sebastinraj J**, (2021). Phytochemical profiling and GC-MC analysis of *Pterocarpus indicus* Willd. Using ethanolic stem bark and leaves extract. International Journal of Botany Studies, Vol.6(1), 395-399.
  17. Baskaran M and **Sebastinraj J**, (2021). Molecular docking of phytocompounds against dengue NS2B/NS3 protease: A study from virtual perspective, International Journal of Advance and Innovative Research, Vol 8(1).
  18. Vithya D and **Sebastinraj J** (2021). Antioxidant and antidiabetic activity of synthesized silver nanoparticles using leaves and stem bark of *Pterocarpus indicus* Willd., International Journal of Biology, Pharmacy and Allied Science, Vol.10 (6): 1763-1783.
  19. Vithya D and **Sebastinraj J**, (2021). Synthesis of Silver nanoparticles using leaves and stem bark of *Pterocarpus indicus* and its activity on human breast cancer cell line (MCF-7), International Journal of Pharmaceutical Sciences and Research, Vol. 12(9). 4807-4816.

#### **Paper presentation in state level and International level conference**

1. **Sebastinraj, J.**, John Britto, S., Philip Robinson, J., Vinothkumar, D and Senthilkumar. Effects of Different hormone Mediated plant Regeneration from *Operculina turpethum* (L.) silva manso. National Symposium on Microbial and Plant Biotechnology. Feb. 17-19, 2005. Loyola College (*Autonomous*), Chennai – 600 034.

2. Vinothkumar, D., John Britto, S., **Sebastinraj, J.**, Philip Robinson, J and Senthilkumar, S. Phytosociological Studies of Sacred Groves in Pudukottai District. National Symposium on Microbial and Plant Biotechnology. Feb. 17-19, 2005. Loyola College (*Autonomous*), Chennai – 600 034.
3. Philip Robinson, J., John Britto, S., Vinothkumar, D., **Sebastinraj, J** and Senthilkumar, S. *In vitro* Sensitivity of a few medicinal plants – A comparative Approach. UGC National Seminar on Present Scenario in Plant Science Research. Feb’ 19-20-2005. Annamalai University, Annamalainagar, Chidambaram – 608 002.
4. **J. Sebastinraj**, K. Manoharan and K. Paliwal. Effect of *Azospirillum* on fodder production in the semi-arid region of South India. Proceedings of the XXI International Grassland Congress and the VIII International Rangeland Congress (Vol. I). on 1<sup>st</sup> June 2008.
5. **Sebastinraj, J.**, Udhayakumar, V., John Britto, S., Philip Robinson, J., Vinothkumar, D and Senthilkumar. (2009). Regeneration of multiple shoots from cotyledonary node of *in vitro* raised seedlings of *Operculina turpethum* (Linn.) Silva Manso – an endangered medicinal plant. The Journal of the Swamy Botanical Club and National conference on Modern Trends in plant *in vitro* biology. Bharathidasan University, Trichy. Vol. 26 (special issue) Page No. 58.
6. Abinaya , S, Kavitha, N., and **Sebastinraj, J.** Phytoremediation of industrial effluent using the technique of root zone cleaning system. State level seminar on “Emerging Advancements in Biosciences” 17<sup>th</sup> March, 2012. Dept. of Microbiology and Biotechnology, JMC, Trichy.
7. Kavitha, N., Abinaya , S, and **Sebastinraj, J.** Studies on *in vitro* regeneration and genetic transformation in Cucumber (*Cucumis sativus* L.). State level seminar on “Emerging Advancements in Biosciences” 17<sup>th</sup> March, 2012. Dept. of Microbiology and Biotechnology, JMC, Trichy.

### **Workshop attended**

1. State level workshop on Techniques in Tissue Culture and Histochemistry. September 16-17, 2004, St. Joseph’ s College (Autonomous), Tiruchirappalli – 620 002.



2. Regional Conference on Fern Diversity of India. February' 24<sup>th</sup> 2007, Conducted by Center for Biodiversity and Biotechnology, St. Xavier' s College (*Autonomous*), Palayamkottai.
3. State Level Workshop on Agribiotech, (Sponsored by MoEF) organized by the Department of Biotech Sciences between 23<sup>rd</sup> – 24<sup>th</sup> February 2008, Mahendra Arts and Science College, Namakkal.
4. National Workshop on Methods in *In vitro* Toxicology, dated on 14-23<sup>rd</sup> September, 2011 (10 days workshop). Organized by MGDC, Bharathidasan University, Tiruchirappalli.
5. State Level Workshop on “ Structural Bioinformatics and Protein 3-D Structure Visualization” , on 28<sup>th</sup> July, 2014, organized by Dept. of Biotechnology and Bioinformatics, Bishop Heber College (*Autonomous*), Tiruchirappalli.

#### **Seminar and Conference attended**

1. National level Symposium on Medicinal plants – Diversity, Utilization and conservation. February 5-6, 2001, St. Joseph' s College (*Autonomous*), Tiruchirappalli – 620 002.
2. UGC sponsored State Level Seminar on Examination Reforms, held at Jamal Mohamed College (JMC), Trichy on March 12, 2010.
3. NAAC sponsored National Level Seminar on Quality Enhancement in Teaching, Research and Extension in Higher Education Institutions – Prospects and Problems, organized by Internal Quality Assurance Cell (IQAC), JMC, Trichy, during April 15 and 16, 2010.
4. State level seminar on “ Recent Trends in Chemical Research (RTCR – 2010)” Conducted by the PG and Research Department of Chemistry, JMC, Trichy, 5<sup>th</sup> and 6<sup>th</sup> October, 2010.
5. Seminar on “ Creating Competitiveness to excel in higher education – a TQM approach” organized by IQAC, JMC, Trichy, on 8<sup>th</sup> December, 2010.
6. National level forum on emerging debates on communicable disease, organized by Dept. of Microbiology, JMC, Trichy, held on 28<sup>th</sup> February, 2011.

7. Colloquium on “ 3R Concept and its practice in academia and research” organized by MGDC in Bharathidasan University, Tiruchy, on 2<sup>nd</sup> October, 2011.
8. A one day Seminar on ‘ Teaching, Learning and Research in Higher Education-Excellence and Beyond Excellence’ organized by the IQAC, JMC, Trichy on 7<sup>th</sup> March 2012.
9. Two day National conference on ‘ Current Challenges in Environment’ organized by the Dept. of Zoology, JMC, Trichy, on 7-8<sup>th</sup> March, 2013.
10. Science Academies Lecture workshop on ‘ Recent Trends in Biology and Biotechnology’ organized by Dept. of Biotechnology, JMC, Trichy, on 29<sup>th</sup> to 31<sup>st</sup> January, 2014.
11. UGC sponsored National seminar on Recent Trends in Botany, organized by Dept. of Botany, JMC, Trichy, on 24<sup>th</sup> February, 2016.
12. One day Seminar on ‘ Intellectual Property Rights and Patenting in Life Sciences: Problem and Prospects’ , organized by Dept. of Botany, JMC, Trichy, on 1<sup>st</sup> March, 2018.
13. One day lecture series on ‘ Traditional Biotechnology for a better tomorrow’ organized by Dept. of Biotechnology, St.Joseph’ s College, Trichy, on 2<sup>nd</sup> March, 2018.
14. State level seminar on ‘ Conservation of Biological Diversity’ organized by Dept. of Zoology, Periyar EVR College, Trichy, on 5<sup>th</sup> March, 2019.

### **Seminar Organizing Committee Member**

- ✓ Organizing committee members in Modern Trends in Healthcare Biotechnology and Environment, organized by the Department of Biotech Sciences between 22<sup>nd</sup> -23<sup>rd</sup> February 2008, Mahendra Arts and Science College, Namakkal.
- ✓ Organizing committee members in one day state level seminar on Beacon Biotech, organized by the Department of Biotech Sciences dated on 20<sup>th</sup> February 2009, Mahendra Arts and Science College, Namakkal.
- ✓ Organizing committee members in State level seminar on “ Emerging Advancements in Biosciences” 17<sup>th</sup> March, 2012. Dept. of Microbiology and Biotechnology, JMC, Trichy.

- ✓ Organizing committee members in National seminar on “Frontiers in Biosciences” on 5<sup>th</sup> March, 2016. Dept. of Microbiology and Biotechnology, JMC, Trichy.

#### **Participated in IQAC Organized Seminar**

- UGC sponsored State level seminar on Examination Reforms, on 12<sup>th</sup> March, 2010 in JMC, Trichy.
- NAAC Sponsored National Level Seminar on Quality enhancement in teaching, research and extension in higher education institutions – prospects and problems, on 15-16<sup>th</sup> April, 2010 in JMC, Trichy.
- One day seminar on ‘Creating competitiveness to excel in higher education – a TQM approach’ on 8<sup>th</sup> December, 2010 in JMC, Trichy.
- One day seminar on ‘Teaching learning and research in higher education – excellence and beyond excellence’ on 7<sup>th</sup> March, 2012 in JMC, Trichy.
- Staff enrichment programme on ownership culture on 14<sup>th</sup> June, 2019 in JMC, Trichy.

#### **References:**

##### **1. Dr. A. Sadiq Bukhari**

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##### **2. Rev. Fr. Dr. S. John Britto**

Director, Rapinat Herbarium and Centre for Molecular Systematics  
St. Joseph’ s College (Autonomous), Tiruchirappalli – 620002.  
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#### **Declaration:**

I do declare hereby all the information is true and correct to the best of my knowledge and belief.

Thanking You

Yours sincerely  
**(J. SEBASTINRAJ)**

Place : Tiruchirappalli

Date :