

## CURRICULUM VITAE

**Name** : Dr. M. BASTIN  
**Date of Birth** : 14.06.1984  
**Present Position** : Assistant Professor and Head  
**Department** : Botany  
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### EDUCATIONAL BACKGROUND:

S.No	Degree/ Board	Institute/ University	Year of Passing	Class
1	Ph. D, Botany	St. Joseph's College (Autonomous), Tiruchirappalli-620 002. (Bharathidasan University)	2017	Commended
2	Ph. D, Botany (Course work)	St. Joseph's College (Autonomous), Tiruchirappalli-620 002. (Bharathidasan University)	2012	A++ with Distinction
3	M. Phil, Botany	St. Joseph's College (Autonomous), Tiruchirappalli-620 002. (Bharathidasan University)	2010	First (76.76 %)
4	M. Sc., Botany	St. Joseph's College (Autonomous), Tiruchirappalli-620 002. (Bharathidasan University)	2009	Second (57.24 %)
5	B. Sc., Botany	St. Joseph's College (Autonomous), Tiruchirappalli-620 002. (Bharathidasan University)	2005	Second (56.30 %)

### EMPLOYMENT RECORD:

S/NO	HANDLED CLASSES	EMPLOYER	PERIOD
1	12 <sup>TH</sup> 11 <sup>TH</sup> & 10 <sup>TH</sup>	St. Gabriel Mat, Hr. School Pettavaithalai, Tiruchirappalli.	2016, August 29 to 2017, April 20.
2	12 <sup>TH</sup> 11 <sup>TH</sup> & 10 <sup>TH</sup>	Annai Hr, Sec, School Padalur, Perambalur-DT.	2017, June-07 to 2018, April 23.
3	12 <sup>TH</sup> 11 <sup>TH</sup> & 10 <sup>TH</sup>	Bharathidasanar Mat, Hr. School Arakkonam, Vellore-DT.	2018, August 16 to 2019, April 20.
4	B.Sc Biotech & Biochem (UG & PG)	EGS Pillai Arts and Science College, Nagapattinam.	2019, June 04 to 2019, July 03
5	B.Sc Botany(UG )	Annai Vailankanni Arts and SciencCollge, Thanjavur - DT	2019 July 04 to Till date

## RESEARCH EXPERIENCE

Worked as a Junior Research Fellow in Dept. of Botany, St. Joseph's College (Autonomous), Tiruchirappall-620 002. From the period of December 2012 to June 2015, funded by University Grant Commission (UGC), New Delhi.

## FIELD OF SPECIALIZATION

a. Conservation Biology (Biotechnology), Molecular Biology, Orchids Mycorrhizae, Antimicrobial screening, Phytochemical analysis (UV, FT-IR, HPLC and GC-MS), Nanoparticles synthesis (SILVER, GOLD and PLATINUM).

### b. PH.D THESIS TITLE

"Micropropagation, Green synthesis of silver Nanoparticles and Molecular characterization of *Trichoglottis tenera* (Lindl.) Rchb. f. – An endemic orchid of Western Ghats"

### c. M. Phil. DISSERTATION TITLE

*In vitro* Micropropagation and antimicrobial studies on *Crotolaria biflora* L.

### d. M. Sc. DISSERTATION TITLE

Isolation of Active Principles in *Gaultheria fragrantissima*-Wall. (In Phytochemistry)

## AWARDS RECEIVED

- a. **Second Rank in M.Phil** at St. Joseph's College (Autonomous), Tiruchirappalli – 620 002.
- b. **Won Best Poster Presentation Award** for the paper presented on the title of "Antimicrobial activity of the whole plant extract of *Crotolaria biflora* L." in "International conference on Bioresource Technology- Its Application and achievements (ICBRT-2010)", Oct 7-8, Organised by **Nirmala College for women, Coimbatore**, Sponsored by DBT, DST, CSIR, INSE, TNSCST.

## WEBINARS, CONFERENCES AND WORKSHOPS CONDUTED:

- a. **"Online Bio-Quiz – 2020 competition for Biological Sciences"**, held on 24<sup>th</sup> May 2020 organized by Dept. of Botany, AVASC, Thanjavur-07.
- b. Online Quiz competition on for biological school students on **"Fascinating World of Science-2020"** held on 26<sup>th</sup> June 2020 Organised by "Department of Botany" AVASC, Thanjavur-07.
- c. **One day International Webinar on "Climate change and Carbon Capture strategies"** held on 21<sup>st</sup> July 2020 organized by Dept. of Botany, AVASC, Thanjavur-07

## TRAINING CUM WORKSHOPS ATTENDED

1. Fifteen day workshop has attended and participated in the Government of India, New Delhi sponsored **short term training course on Hands on Training** on

“Biopharmaceutical Approaches in plant based drug discovery” (**PHYTODRUGS-2012**) held from May-02 to 16-2012, organised by Department of Biotechnology, **Anna University of technology**, Trichy-24.

2. One day State level workshop on “ Histopathological Techniques (**HITECH ‘12**)” organised by the Department of Biochemistry, St. Joseph’s College (Autonomous), Tiruchirappalli – 620 002, on 28<sup>th</sup> Sep 2012.
3. One day regional level workshop has attended on “Histochemistry” on 18<sup>th</sup> October 2012, Organized by the Department of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli- 620 002.
4. One day State level workshop on “Microbiological and Phytochemical Techniques” on 18<sup>th</sup> Dec’2013, organised by the Department of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli – 620 002.
5. One day State level workshop on “Pharmacognostical Screening of Medicinal Plants ” on 4<sup>th</sup> Mar’ 2013, organised by the Department of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli – 620 002.
6. One day workshop on “Landscape Designing” on 10<sup>th</sup> Jan’ 2014, organised by the Department of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli – 620 002.
7. Two day workshop has attended in the IAS (Bangalore), INSA (New Delhi) and The National Academy of Sciences (Allahabad) sponsored ‘Science Academies’ Lecture workshop on “Vistas in Biosciences” organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli- 620 002, on 30<sup>th</sup> and 31<sup>st</sup> Jan, 2015.
8. Two day workshop has attended in the IAS (Bangalore), INSA (New Delhi) and The National Academy of Sciences (Allahabad) sponsored ‘Science Academies’ Lecture workshop on “Bioprospecting and Bioresources” organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli- 620 002, on 10<sup>th</sup> and 12<sup>th</sup> Feb, 2016.

#### **PAPER PRESENTED IN SEMINARS / SYMPOSIA / CONFERENCES**

1. REGIONAL CONFERENCE on Fern Diversity Of India, Centre for Biodiversity and Biotechnology, St. Xavier’s College(Autonomous) and Department of Plant Biology and Plant Biotechnology, St. Joseph’s College(Autonomous), Tiruchirappalli. Sponsored by Ministry of Environment and Forests, Government of India, New Delhi. Dated: 24<sup>th</sup> Feb’ 2007.
2. **Rev. Dr. S. Lazar SJ** Endowment one day awareness programme on “E-Resources”, organised by Arrupe Library, St. Joseph’s College (Autonomous), Tiruchirappalli- 620 002, held on 7<sup>th</sup> Mar’ 2012.
3. Has participated on Research Day on “Pursuing Socially Relevant Research-Possibilities and Concerns” held on 28<sup>th</sup> Jan’ 2012 at St. Joseph’s College (Autonomous),

Tiruchirappalli- 620 002.

4. **Bastin. M.** and Jeyachandran. R. (2010). *Crotolaria biflora*. L – A potential antitumor drug. Two day National Seminar on “PHYTOTHERAPEUTICS” (NSPT-2010) sponsored by Department of Science and Technology (DST), New Delhi. Organized by Department of Biochemistry, St. Joseph’s College (Autonomous), Tiruchirappalli – 620 002 on 29<sup>th</sup> and 30<sup>th</sup> March-2010.
5. **Bastin. M.** and Jeyachandran. R. (2010). “*In vitro* micropropagation of *Crotolaria biflora* L. Mant through nodal explants.” in “International conferences on Bioresource Technology- Its Application and achievements (ICBRT-2010)”, Oct 7-8, Organised by Nirmala College for women, Coimbatore, Sponsored by DBT, DST, CSIR, INSE, TNSCST.
6. **Bastin. M.** and Jeyachandran. R. (2013). “Phytochemical evaluation of *Acalypha chengalpattensis* (Narasimhan)”. in the International conference on sustainable utilization, Management and conservation of Bioresources (ICSMCB-2013), organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, 10<sup>th</sup> and 11<sup>th</sup> Jan 2013.
7. Jeyachandran. R. and **Bastin. M.** (2013). Preliminary phytochemical investigations on *Acalypha chengalpattensis* (Narasimhan)”- Ethnomedicinal herb”. in the International conference on sustainable utilization, Management and conservation of Bioresources (ICSMCB-2013), organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, 10<sup>th</sup> and 11<sup>th</sup> Jan 2013.
8. Jeyachandran. R., Tamilarasu. R. and **Bastin. M.** (2013). Pharmacological evaluation of *Cayratia pedata* (Lamk.) Juss.ex- An endangered medicinal plant. in the International conference on sustainable utilization, Management and conservation of Bioresources (ICSMCB-2013), organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, 10<sup>th</sup> and 11<sup>th</sup> Jan 2013.
9. **Bastin. M.** and Jeyachandran. R. (2013). Pharmacological evaluation of *Ludvigia perenis* L. An Chinese medicinal plant. in the International conference on sustainable utilization, Management and conservation of Bioresources (ICSMCB-2013), organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, 10<sup>th</sup> and 11<sup>th</sup> Jan 2013.
10. **Bastin. M.** and Jeyachandran. R. (2014). “Pharmacognostic screening of *Acalypha lanceolata* Wild”. in the National symposium on “Recent Advances in Medicinal and Aromatic Plants (NASYMP’14)”, organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, on 5<sup>th</sup> Feb 2014.
11. Jeyachandran. R. and **Bastin. M.** (2014). Ethanobotanical significance of *Tithonia diversifolia* (Hemsl) A. Grey. in the National symposium on “Recent Advances in Medicinal and Aromatic Plants (NASYMP’14)”, organized by Dept. of Botany, St. Joseph’s College

(Autonomous), Tiruchirappalli -620 002, on 5<sup>th</sup> Feb 2014.

12. **Bastin. M.** and Jeyachandran. R. (2015). A suitable protocol for *In vitro* shoot induction of *Oldenlandia umbellate* L. in the National symposium on “Recent Advances in Medicinal and Aromatic Plants (NASYMP’15)”, organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, on 5<sup>th</sup> Feb 2015.
13. **Bastin. M.** and Jeyachandran. R. (2015). An efficient protocol for *In vitro* hairy root cultures of through leaf of Indian mustard – *Brassica juncea* L. in the National symposium on “Recent Advances in Medicinal and Aromatic Plants (NASYMP’15)”, organized by Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, on 5<sup>th</sup> Feb 2015.
14. **Bastin. M.** and Jeyachandran. R. (2016). *In vitro* callus induction of *Rhynchosia minima* (L.) DC. Var. in the International conference on Frontiers in Life Science (ICFLS-2016) Organized by Dept of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, on 7<sup>th</sup> and 8<sup>th</sup> Jan 2016.
15. **Bastin. M.** and Jeyachandran. R. (2016). Pharmacological importance of *Turnera diffusa* Wild.ex Schult. in the International conference on Frontiers in Life Science (ICFLS-2016) Organized by Dept of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli -620 002, on 7<sup>th</sup> and 8<sup>th</sup> Jan 2016.
16. **Bastin. M.** (2020). UGC sponsored National seminar on “ Current perspectives and challenges in biological sciences and research (CPCBSR-20)” on 5<sup>th</sup> March – 2020 was participated.

#### **PAPER PUBLISHED IN NATIONAL / INTERNATIONAL**

1. **Bastin. M.** and Jeyachandran. R (2015). Biosynthesis and characterization of silver nanoparticles and antimicrobial activity of *Trichoglottis tenera* (Lindl.) an endangered orchid of Western Ghats. *International Journal of Advanced Research* (2015), Volume 3, Issue 3, 533-552.
2. **Bastin. M.** and Jeyachandran. R (2015). Ex Situ Conservation of *Trichoglottis Tenera* (Lindl.) A threatened and endangered orchid of Western Ghats using Asymbiotic seed Germination Technique. *International Journal of Recent Scientific Research* Vol. 6, Issue, 4, pp.3488-3496, April, 2015.
3. Jeyachandran. R. and **Bastin. M.** (2013). An efficient protocol for *in vitro* flowering and fruiting in *Micrococca mercurialis* (L.) Benth. *International Journal of Natural and Applied Science*. 2013; 2(1): 18-2. April, 2013.
4. Jeyachandran. R. and **Bastin. M.** (2013). *In vitro* antimicrobial activity of *Acalypha chengalpattensis*. (Narasimhan) – An new species. *International Journal of Applied Biology and Pharmaceutical Technology*. Vol-4, Issue-4, Dec-2013. ISSN No- 0976-4556. PP-106-109.

5. Jeyachandran. R. and **Bastin. M** (2014). *In-vitro* propagation of *Tylophora ovata* (Lind.) Hook. ex.steud – An important medicinal plant. *International Journal of Pharmaceutical Sciences and Research*. 2014; Vol. 5(3): 1083-1086. E-ISSN: 0975-8232; P-ISSN: 2320-5148.
6. **Bastin. M.**, Jeyachandran. R., Chinnasamy. P. S. *In vitro* antimicrobial activity of callus extracts of *Micrococca mercurialis* (L.) Benth. on Western Ghats. An inter-disciplinary Research Journal – RETELL, Vol-15, Dec-2015. St. Joseph's College (Autonomous), Tiruchirappalli – 620 002.

## RESOURCE PERSON

Acted as a resource person in the One day state level workshop on “Plant tissue culture techniques” on Dec’ 22<sup>nd</sup>, 2014, organised by the Dept. of Botany, St. Joseph’s College (Autonomous), Tiruchirappalli- 620 002.

## TECHNICAL SKILLS FOR SUBJECTS

- ❖ Plant Tissue Culture Techniques
- ❖ Induction of shoot and root from nodal and shoot tip explants
- ❖ Callus culture from internodes and leaf explants
- ❖ Orchid seed germination (**Asymbiotic and Symbiotic culture**)
- ❖ Somatic Embryogenesis from leaf and root
- ❖ Synthetic Seeds and Hairy Root culture
- ❖ DNA isolation from plant leaves
- ❖ RNA isolation
- ❖ Embryo culture (Maize)
- ❖ Molecular Evolutionary Analysis for plant and microbes (MEGA-6 software)
- ❖ Medium preparation for Plant and Microbial culture

## CHROMATOGRAPHY

- ❖ Column Chromatography
- ❖ Paper Chromatography
- ❖ Thin Layer Chromatography

## OTHER TECHNICAL SKILLS

- ❖ Type Writing: English and Tamil
- ❖ MS office (Word, Power Point and Excel).

## Basic Microbiological Techniques

- ❖ Isolation, Cultivation and Characterization of Microorganism
- ❖ Biochemical Testing
- ❖ Antimicrobial activity Assays

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

**Date** : 12-06-2021

**Place** : Thanjavur.

Yours truly,

A rectangular box containing a handwritten signature in blue ink. The signature appears to be 'Dr. M. Bastin'.

**(Dr. M. Bastin)**