



Dr. M.B. Viswanathan
Professor

Contact

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Academic Qualifications: M.Sc., Ph.D.

Teaching Experience: 27 Years

Research Experience: 36 Years

Areas of Research

Plant Taxonomy, Ethnobotany, Medicinal Plants, Species Recovery, Molecular Biology, Plant Conservation, Drug Discovery and Development, Ethnopharmacology, Drugs from Traditional Medicines, Ecological Niche Management, Secondary Metabolites Production through Micropropagation, Protein Pharmaceuticals, Medicinal Plants Cultivation and Marketing

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	11	3
	M.Phil.	7	0
Project	PG	39	5
	UG / Others	5	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters
83	25	7	48	3/25

Cumulative Impact Factor (as per JCR) : 63.59

h-index : 15

i10 index : 23

Total Citations : 698

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
12	Chief Conservator of Forests, Coimbatore Working Plan DMU under Tamil Nadu Biodiversity Greening Project, Coimbatore – 641 043	2013	2016	Status and Surveys of Selected CR/EN/DD Taxa in Wild in Coimbatore Forest Division under Tamil Nadu Biodiversity Greening Project (TBGP)	4.76
11	University Grants Commission, New Delhi	01.04. 2011	31.03. 2016	M.Sc. Biodiversity and Bioprospecting	56.00 lakhs + One Lecturer

10	Tamilnadu State Council for Science and Technology, Chennai	2009	2010	Molecular Marker Studies of <i>Myristica dactyloides</i> Gaertn. (Myristicaceae) - A Threatened Medicinal Tree	0.10
9	Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi	2008	2013	Studies on Population Ecology and Micropropagation Techniques of Selected Endemic and Threatened Plants of Peninsular India	84.13
8	Department of Biotechnology, Government of India, New Delhi	22.09.2006	02.01.2007	Creation of Bioinformatics Infrastructure facilities (BIF) for the promotion of Biology Teaching through Bioinformatics (BTBI) Scheme of BTISnet	20
7	Forest Department of Tamil Nadu, under FREEP	31.01.2001	27.03.2002	Study on Biodiversity and Sociological Assessment and monitoring of Eco-development initiatives	19
6	Ministry of Environment & Forests, Govt. of India, New Delhi.	08.06.1998	07.06.2002	Conservation of threatened plant genetic resources of Kalakkad - Mundanthurai Tiger Reserve in India	12
5	Ministry of Environment & Forests, Govt. of India, New Delhi	05.11.1997	22.12.2000	Improvement of Infrastructural facilities in the Botanic Garden in the Sri Paramakalyani Centre for Environmental Sciences of M. S. University to conserve rare, endemic and threatened species	4.1
4	Wildlife Institute of India, Dehradun, under FREEP	19.01.1998	04.02.1999	Ethnobotany of the Kanis in the Kalakkad - Mundanthurai Tiger Reserve in Tirunelveli District, Tamil Nadu, India	1.2
3	University Grants Commission, New Delhi.	01.04.1995	31.03.1998	Ethnobotany of the Palliyans of Sivagiri R.F. in Tirunelveli District	0.25
2	Foundation for Revitalization of Local Health Traditions (FRLHT), Bangalore.	03.01.1994	31.10.1996	Botanical Survey work in Medicinal Plants Conservation Area of Kollihills	0.35 lakhs + conting. + consum.

1	Foundation for Revitalization of Local Health Traditions (FRLHT), Bangalore	03.01.1994	31.10.1996	Botanical Survey work in Medicinal Plants Conservation Area of Alagarkovil	0.35 lakhs + conting. +consum.
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Coordinator for Departmental Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
3	Special Assistance Programme – DRS II	01.04.2018	31.03.2023	University Grants Commission, New Delhi	91 + One Project Fellow
2	Fund for Improvement of Science and Technology (FIST)	01.07.2014	30.06.2017	Department of Science and Technology, New Delhi	55
1	University Grants Commission, New Delhi	2011	2016	Special Assistance Programme - II	65

Patents:

One Submitted for forwarding to the Patent Office

Distinctive Achievements / Awards

- 2018: **Lifetime Achievement Award.** Antiviral Research Society. Awarded on 08 June 2018. **National Seminar on “Recent Advances in Antiviral Drug Design, Discovery & Development”**, June 8th & 9th 2018. Cherraan’s College of Pharmacy, Coimbatore.
- 2017: **Best Poster Award.** National Seminar on Recent Advances in Antiviral Drug Design and Discovery against emerging and re-emerging viral diseases. 24-25 October 2017. Kalasalingam University, Krishnankoil.

- 2016: **Best Poster Award.** National Seminar on Recent Advances in HIV/AIDS Drug Discovery and Development, 27-28 December 2016. Kalasalingam University, Krishnankoil.
- 2016: **Second Prize Awarded for Best Poster Presentation.** International Conference on Translational Medicine and Imaging (ICTMI 2016), 4-5 March 2016. Rajiv Gandhi Centre for Biotechnology, Tiruvananthapuram, and Mar Ephraem College of Engineering and Technology, Marthandam.
- 2015: **Journal Club Award 2015.** RVS College of Pharmaceutical Sciences, Coimbatore.
- 2006: **Best Oral Presentation.** National Seminar on Advances in Plant Sciences, 24-25 February, 2006. Bharathidasan University, Tiruchirappalli.
- 1986: *Best Paper Award.* 9th Indian Botanical Conference, Madras.

Events organized in leading roles

1. Organizing Secretary of the International Conference

24th Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) and International Conference on Trends in Plant Systematics (TIPS) - 31st October - 2nd November 2014. Department of Plant Science, Bharathidasan University, Tiruchirappalli 620024.

2. Workshops : 6

- ❖ **20th to 23rd March 2018 - Drug Discovery and Development of Plant Resources.** Sponsored by DST- PURSE Programme, Department of Science and Technology, New Delhi at Department of Botany, Bharathidasan University, Tiruchirappalli.
- ❖ **17th to 24th March 2017 - Molecular and Phytochemical Techniques in Drug Discovery and Development.** Sponsored by University Grants Commission, New Delhi at Department of Botany, Bharathidasan University, Tiruchirappalli.
- ❖ **05 July 2014 - National Workshop on EMERGING TRENDS FOR COMMERCIAL GOAT FARMING.** Organized by Dr. M.B. Viswanathan, Organizing Secretary, Professor & Head, Department of Plant Science, Bharathidasan University, Tiruchirappalli, and Dr. J. Diravium, Co-organizing Secretary, Saraswathi Foundation for Rural Development and Training, Karur.

- ❖ **28 January 2002 - Impact of Eco-development Initiatives in KMTR.** Sponsored by Forest Department of Tamil Nadu under FREEP of the World Bank.
- ❖ **27 - 29 June 1997 - Naattu Vaidyar Sammelan of Tirunelveli District.** Sponsored by the Foundation for Revitalization of Local Health Traditions (FRLHT), Bangalore at Alwarkurichi.
- ❖ **25 March 1995 - Tribal Medicines.** Sponsored by Manonmaniam Sundaranar University, Tirunelveli, under the aid of University Grants Commission, New Delhi, at Alwarkurichi.

3. Training Programme Conducted: 1

- ❖ **Cultivation of Medicinal Plants. 18-20 February 2002.** Sponsored by Science and Technology Entrepreneurial Development Scheme (STEDS), Department of Science & Technology, New Delhi.

4. Coordinator for the UGC-Sponsored Refresher Courses: 5

I. Botany: 2

- ◆ Plant Medicines (4 – 25 February 2002)
- ◆ Plant Diversity (21 November-12 December 2001)

II. Life Sciences: 3

- ◆ 16th to 29th July 2019
- ◆ 29th June to 19th July 2013
- ◆ 11th to 31st August 2010

III. Biosciences: 1

- ◆ 26th October to 15th November 2017

Events Participated

- 1. Conferences / Seminars : 93 – As Resource Person**
- 2. Conferences / Seminars : 41 – Member, Organizing Committee**
- 3. Conferences / Seminars : 25 – Attended**

Other Training Programs: 2

1. Refresher Courses: 2

Overseas Exposure / Visits

1. Theoretical Course *Transgenic Organisms: Biological Risk Assessment*. 1st to 5th July 1996. International Centre for Genetic Engineering and Biotechnology at Trieste, Italy.
2. 3rd ScienceOne Conference on Drug Discovery and Development (SCDDD). 21-23 January 2014. Organized by ScienceOne thescienceone.com. Taj Palace Hotel, Deira, Dubai.

Membership in

Professional Bodies

1. Life Member : Indian Association of Angiosperm Taxonomy
2. Life Member : Antiviral Research Society.

Editorial Board: 5

1. Editorial Advisor, Science and Technology Group (STG) Publishers, Alexandria, Egypt (since 24.04.2008).
2. Editorial Board Member, Journal of Biofertilizers and Biopesticides – Open Access. Omics Publishing Group, 5716 Corsa Ave., Suite 110, Westlake, Los Angeles CA 91362-7354, USA (since 08 June 2011).
3. Editorial Board Member, Pharmacologia, UK. <http://pharmacologia.co.uk> (since 18.03.2014)
4. Associate Editor, Forestry Research and Engineering: International Journal. <http://medcraveonline.com/FREIJ/editorial-board> (since 12.01.2018)
5. Editorial Board Member, Progress in Applied Microbiology. Whioce Publishing Pte. Ltd., Singapore. Since 03.05.2018.

Reviewer: 38

Advisory Board: 1

1. UGC-SAP (DRS-I). Bharathiar University, Coimbatore, 01.04.2016-31.03.2021.

Academic Bodies (Board of Studies)

1. Chairman: 2
2. Member: Present – 10
3. Member: Past - 14

Others

1. International Recognitions: 2

- ✓ 2005-2008: Member, IUCN SSC Indian Subcontinent Plant Specialist Group 2005-2008
- ✓ 2004: Who'sWho IN THE WORLD, Marquis Who'sWho, New Jersey, U.S.A.

2. National Recognitions: 3

- ❖ Member, Antiviral Research Society. Sir C.V. Raman-Krishnan International Research Centre, Kalasalingam University, Krishnankoil (2016).
- ❖ Member, Major Research Project Expert Committee. University Grants Commission, New Delhi, (2015).
- ❖ 01.07.2015 – 30.09.2015: Core Committee, Member, Tamil Nadu Biodiversity Greening Project (TBGP).
- ❖ 17.07.2012 – 16.07.2016: Member, Tamil Nadu Biodiversity Board

3. Environmental Impact Assessment Member: 2

4. Served as Judge in Conferences: 7

- UGC Sponsored Two *National Conference on "Environment and Biosciences"* 20-21, February 2020. School of Biosciences, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641043.
- *National Conference on "Medicinal Plants Research and Translational Trends (MPRTT 2017)"*. 18-19, December 2017. Departments of Biochemistry, Chemistry, Zoology & Botany, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore 641043.
- *Silver Jubilee Conference of IAAT and Council Meeting of IAPT & International Seminar on "Advancements in Angiosperm Systematics and Conservation"*. 19-21 November 2015. Organized by Department of Botany, University of Calicut, Kerala, India.
- *National Conference on Emerging Trends in Biodiversity Conservation and Sustainable Utilization*. 29-30 January 2014. Organized by Department of Botany, Bharathiar University, Coimbatore, Tamil Nadu, India.
- *XXII Conference of Indian Association for Angiosperm Taxonomy & National Seminar on "Recent Advances in Plant Taxonomy Research"*. 27-29 December 2013. Organized by Post Graduate Department of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India.

- *XXI Annual Conference of Indian Association for Angiosperm Taxonomy & National Seminar on “Biodiversity Conservation and Climate Change” (BCCC-2011).* 2-4 December 2011. T.R. Sahu Award. Organized by Environment & Sustainability Department, Institute of Minerals and Materials Technology, Council of Scientific & Industrial Research, Bhubaneswar, Odisha, India.
- *International Conference on Promotion and Development of Botanicals with International Coordination: Exploring quality, safety, efficacy and regulations.* February 25-26, 2005 at Indian Institute of Chemical Biology, Jadavpur, Kolkata, India. Organized by School of Natural Product Studies, Department of Pharmaceutical Technology, Jadavpur University, Kolkata – 700 032, India, Drug Information Association, USA and Indian Institute of Chemical Biology, Jadavpur, Kolkata, India.

5. Chairing the Session: 7

- **National Seminar on Recent Advances in HIV/AIDS Drug Discovery and Development.** 27-28 December 2016. Kalasalingam University, Krishnankoil.
- **International Conference on Environment and Health in Changing Climate.** 14-16 September 2016. Organized by Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
- **Silver Jubilee Conference of IAAT and Council Meeting of IAPT & International Seminar on “Advancements in Angiosperm Systematics and Conservation”.** 19-21 November 2015. Organized by Department of Botany, University of Calicut, Kerala, India.
- **National Conference on Emerging Trends in Biodiversity Conservation and Sustainable Utilization.** 29-30 January 2014. Organized by Department of Botany, Bharathiar University, Coimbatore, Tamil Nadu, India.
- National Conference on **Recent Trends in Plant Biotechnology.** 27-28th February 2013. Organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli.
- **XXI Annual Conference of Indian Association for Angiosperm Taxonomy & National Seminar on “Biodiversity Conservation and Climate Change” (BCCC-2011).** 2-4 December 2011. **Session: Modern Trends in Taxonomy. 03.12.2011.** Organized by Environment & Sustainability Department, Institute of Minerals and Materials Technology, Council of Scientific & Industrial Research, Bhubaneswar, Odisha, India.
- **XX Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) & International Symposium on “Taxonomy, Plant Diversity & Conservation”.** 26 -

28 November 2010. Session: Plant Diversity Conservation. 27.11.2010.
Department of Botany, Bharathiar University, Coimbatore 641 046, Tamil Nadu,
India.

6. Keynote Address: 2

7. Member, Program Technical Committee of the International Conference: 1

8. Mentor, DBT Star College: 1

9. Member, Academic Council: 2

10. Expert, Conservation Assessment and Management Plan

11. Member

Institutional Ethics Committee

Inspection Commission

IQAC

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 93

Others

1. Articles published in Newspapers / Magazines : 2
2. Products developed : Under development
3. No. of Ph.D. Thesis evaluated : 60
4. No. of PhD Public Viva-Voce Examination conducted : 48
5. Sequences submitted in GenBank : 68

Recent Publications

1. Viswanathan, M.B., C. Rajasekar and P. Sathish Kumar. 2019. Reproductive biology and pollinators of a steno-endemic and critically endangered tree, Monoon tirunelveliense (Annonaceae), from Kalakkad-Mundanthurai Tiger Reserve (KMTR), India. **Indian Journal of Experimental Biology** 57 (7): 516-525.
2. Viswanathan, M.B., J. Jeya Ananthi and N. Venkateshan. 2018. Pharmacognostical Studies on the leaves of *Jatropha tanjorensis*. **Research Journal of Pharmacognosy and Phytochemistry** 10 (4): 291-298.

3. Viswanathan, M.B., J. Jeya Ananthi, N. Livingston Raja and N. Venkateshan. 2018. Wound healing activity of *Jatropha tanjorensis* leaves. **Universal Journal of Pharmaceutical Research** 3 (4): 24-30.
4. Viswanathan, M.B., J. Jeya Ananthi and N. Venkateshan. 2018. Review on *Jatropha*. **International Journal of Research and Innovation in Social Science (IJRISS)** 2 (8): 39-46.
5. Tangavelou, A.C., M.B. Viswanathan, K. Balakrishna and A. Patra. 2018. Phytochemical analysis in the leaves of *Chamaecrista nigricans* (Leguminosae). **Pharmaceutica Analytica Acta** 9: 582. <https://doi.org/10.4172/2153-2435.1000582>.
6. Mini Shobi, T. and M.B. Viswanathan. 2018. Antibacterial activity of di-butyl phthalate isolated from *Begonia malabarica*. **Journal of Applied Biotechnology and Bioengineering** 5 (2): 101-104. <https://doi.org/10.15406/jabb.2018.05.00123>.
7. Viswanathan, M. B., C. Rajasekar and P. Sathish Kumar. 2018. ISSR and ITS analyses to assess genetic diversity and phylogeny to conserve an endemic and critically endangered tree, *Memecylon subcordatum*, in India. **Ecological Genetics and Genomics** 7-8: 6-12. <https://doi.org/10.1016/j.egg.2018.03.004>.
8. Mini Shobi, T. and M.B. Viswanathan. 2018. Antibacterial activity of green synthesized silver nanoparticles in *Begonia malabarica*. **International Journal of Pharmaceutical and Chemical Sciences** 7(1): 8-16.
9. Mini Shobi, T. and M.B. Viswanathan. 2017. Micropropagation of an important medicinal plant, *Begonia fallax* (Begoniaceae). **International Journal of Current Research in Biosciences and Plant Biology** 4(12): 94-99.
10. Tangavelou, A.C. and M.B. Viswanathan. 2017. Anti-inflammatory activity of the epidermal glandular extract of *Cyclosorus parasiticus* in experimental animals. **Journal of Biologically Active Products from Nature** 7 (3): 245-250. doi. 10.1080/22311866.2017.1342560.
11. Sathish Kumar, P., M.B. Viswanathan, M. Venkatesan and K. Balakrishna. 2017. Bauerenol, a triterpenoid from Indian *Suregada angustifolia*: Induces reactive oxygen species-mediated P38MAPK activation and apoptosis in human hepatocellular carcinoma (HepG2) cells. **Tumor Biology** 39 (4): 1-15. <https://doi.org/10.1177/1010428317698387>.
12. Muniappan, V., S. Palanivel, S. Parvathi, M.B. Viswanathan, and R. Rajesh. 2016. Analysis of Seed Proteins in Groundnut Cultivars (*Arachis hypogaea* L.). **International Journal of Engineering Research and Application** 6(7): 06-10.
13. Packia Lekshmi, N.C.J., S. Viveka, M.B. Viswanathan and T. Mini Shobi. 2015. GC-MS characterization of organic Sulphur compounds and other volatile odorous compounds from *Allium sativum*. **Asian Journal of Microbiology, Biotechnology and Environmental Sciences** 17 (Spl. Iss.): 73-78.

14. Packia Lekshmi, N. C. J., S. Viveka, M. B. Viswanathan, T. Mini Shobi, S. Jeeva and J. Raja Brindha. 2015. High performance thin layer chromatography profile of quercetin in three cultivars of *Allium cepa* and its antimicrobial activity against bacterial cultures. **Asian Journal of Pharmaceutical and Clinical Research** 8(3): 213-218.
15. Packia Lekshmi, N. C. J., S. Viveka, M. B. Viswanathan, S. Jeeva and J. Raja Brindha. 2015. Phytochemical screening and *in vitro* antibacterial activity of *Allium sativum* extracts against bacterial pathogens. **Journal of Science** 5(5): 281-285.
16. Packia Lekshmi, N. C. J., S. Viveka, M. B. Viswanathan, T. Mini Shobi, S. Jeeva and J. Raja Brindha. 2015. HPTLC profile of quercetin in three cultivars of *Allium sativum* and its antimicrobial activity against bacterial cultures. **Journal of Chemical and Pharmaceutical Research** 7(3):38-43.
17. Packia Lekshmi, N.C.J., S. Viveka, M.B. Viswanathan. 2015. Antimicrobial activity of *Allium sativum* against human pathogens. **International Journal of Institutional Pharmacy and Life Sciences** 5(2): 147-153.
18. Ramesh, N., M.B. Viswanathan, P. Susindran, V. Tamil Selvi and P. Lakshmanaperumalsamy. 2015. Antimicrobial and phytochemical studies on *Phyllanthus singampattiana* (Sebastine & A.N. Henry) Kumari & Chandrabose from India. **International Journal of Modern Research and Reviews** 3 (6): 688-690.
19. Viswanathan, M. B., C. Rajasekar and P. Sathish Kumar. 2015. Genetic diversity of steno endemic and critically endangered *Monoon tirunelveliense* (Annonaceae) from India as revealed by ISSRs. **Trees** 29: 437-447. <https://doi.org/10.1007/s00468-014-1122-y>.
20. Sathiyarayanan, G., Vignesh, V., Saibaba, G., Vinothkanna, A., Dineshkumar, K., Viswanathan, M.B., Selvin, Joseph. 2014. Synthesis of carbohydrate polymer encrusted gold nanoparticles using bacterial exopolysaccharide: A novel and greener approach. **RSC Advances** 4: 22817-22827. <https://doi.org/10.1039/C4RA01428F>.
21. Viswanathan, M. B., J. J. Ananthi, P. Sathish Kumar. 2012. Antimicrobial activity of bioactive compounds and leaf extracts in *Jatropha tanjorensis*. **Fitoterapia** 83: 1153-1159. <https://doi.org/10.1016/j.fitote.2012.07.007>.