

PROFILE



Name : **D. JESUBALAN**

Designation with Affiliation : Botanical Assistant
Botanical Survey of India
Western Regional Centre
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Date of Birth : 26.02.1984

Qualification(s) with discipline : M.Sc., M.Phil., Ph.D.

Field of Specialization : Taxonomy of Pteridophytes

Special Interest : Plant Tissue Culture and Conservation

Presently working on
Family/tribe/genus or flora of (Area): ‘Pteridophytic Flora of Pushpagiri Wildlife Sanctuary, Karnataka with 10% Periphery’

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PUBLICATIONS:

BOOK EDITED : 1

1. S. C. Verma, S. P. Khullar, A. Benniamin, **D. Jesubalan** and Devendra Tripathi 2017. Edited Abstract Book for National Symposium on the Genomic Age Challenges and Opportunities in Taxonomy and Biology of India Pteridophytes, Published by Botanical Survey of India.

PUBLISHED PAPERS : 11

1. Benniamin A, Sundari M. S., **Jesubalan D.** 2019. *In-vitro* multiplication of *Clinacanthus nutans* (Burm.f) Lindau. - A medicinal plant. 10 (2):365-370.

2. Benniamin, A., Sundari, M. S., Bagathsingh, C. and **Jesubalan, D.** 2018. In-vitro spore germination and ontogeny of an endangered annual fern-*Anogramma reichsteinii* Fraser-Jenk. *Indian Fern J.* 35 : 356-365.
3. Bagath Singh C. Benniamin A, Sundari M. S., **Jesubalan D.** 2018. Studies on development of apogamous sporophyte in an endemic fern *Diplazium travancoricum* Bedd. through in vitro spore culture. Abstract in 7th Asian Symposium of Fern and Lycophytes. Taiwan.
4. **D. Jesubalan**, A. Benniamin and Devendra Tripathi. 2018. Addition to the Pteridophytic Flora of Karnataka, Central Western Ghats of, India, Pteridology Today: Challenges and Opportunities. Proceeding published in Botanical Survey of India Publication. pp. 240-242.
5. A. Benniamin, Devendra Tripathi, M. S. Sundari, **D. Jesubalan** and Bagath Singh. 2018. *Thelypteris arbuscula* (Wild.) Iwats., a new record to the fern flora of Karnataka, India. *Int. J. of environment and biodiversity*. Vol.9. No. 2. pp. 188-190.
6. Devendra Tripathi, A. Benniamin, M. S. Sundari, **D. Jesubalan** and Bagath Singh. 2017. Medicinal Pteridophytes of Kudremukh National Park, Central Western Ghats, Karnataka, India, *Indian Fern Journal* Vol. 34, pp. 188-196.
7. Bagath Singh C, G. A. I Ebenezer, **D. Jesubalan** and M. S. Sundari. 2017. Tissue Culture, Histochemical, Phytochemical analysis and Anti-cancer activity study on a Traditional Medicinal Plant - *Spharenthus indicus* L. *Int. J. Biotechnol.* 6(7):1-7.
8. Devendra Tripathi, A. Benniamin and **D. Jesubalan** (2016). New record of endemic fern: *Elaphoglossum stigmatolepis* (Fee) T. Moore (Lomariopsidaceae) for the state of Karnataka, India, *Indian Journal of Forestry* 39(2) 1-8.
9. Desha Meena., Nagarajan, B and **Jesubalan, D** (2012). Future prospects of critically endangered medicinally important species- *Canarium strictum* roxb.- a review. *International Journal of Conservation Science*, 3 (3):231-237.
10. Nagarajan, B., George, R., Senthil Kumar, S., **Jesubalan, D.**, and Shelke, G. R. (2011). The bubbling Baratang mud volcano: a geological signature. *Current Science*, 101 (1): 7-8.
11. Nagarajan, B., Desha Meena., Sarvesh Singh., Daniel, A and **Jesubalan, D** (2010). Kannimara teak: an extant forest genetic resource. *Current Science*, 99 (7): 862.

PAPER ACCEPTED:1

1. **D. Jesubalan**, A. Benniamin, M. S. Sundari, C. Bagath Singh and Devendra Tripathi. 2019. Supplement to the Pteridophytic Flora of Karnataka: *Cyathea crinita* (Hook.) Copel. an Endangered Tree Fern to Southern Western Ghats of India. *Indian Journal of Forestry*.

PAPER PRESENTED IN CONFERENCES

1. Benniamin, A., Sundari, M. S., **Jesubalan, D.**, Devendra Tripathi and Bagath Singh, C. Pteridophytic diversity of Someshwara Wildlife Sanctuary, Western Ghats, Karnataka. National Symposium on Pteridological Studies in India: Perspective and Modern

- approaches in Relation to Environment & Climate Change. pg. 95 (22nd-23rd February 2018)
2. Benniamin, A., Sundari, M. S., Devendra Tripathi, **Jesubalan D.** and Bagath Singh, C. Diversity and distribution of pteridophytes from Bhadra tiger reserve, Central Western Ghats of Karnataka. National Symposium on Pteridological Studies in India: Perspective and Modern approaches in Relation to Environment & Climate Change. pg. 45 (22nd-23rd February, 2018.)
 3. A. Benniamin, Sundari, M. S., Devendra Tripathi, **Jesubalan D.** and Bagath Singh, C. *Dryopteris chrysocoma* (Christ) C. Chr. (Dryopteridaceae: Pteridophyta)- A New Record for Pteridophytes Flora of Western Ghats of India. National Symposium on Pteridological Studies in India: Perspective and Modern approaches in Relation to Environment & Climate Change. pg. 96 (22nd-23rd February, 2018.)
 4. **Jesubalan, D.**, Benniamin, A. and Devendra Tripathi, Addition to the Pteridophytic Flora of Karnataka, Central Western Ghats of India, National Symposium on the Genomic Age Challenges and Opportunities in Taxonomy and Biology of India Pteridophytes (3rd – 4th March, 2017).
 5. Devendra Tripathi, A. Benniamin and **D. Jesubalan**, An Ethno- Medicinal Exploration of Pteridophytes in Kudremukh National Park, Central Western Ghats, Karnataka, India, National Symposium on the Genomic Age Challenges and Opportunities in Taxonomy and Biology of India Pteridophytes (3rd – 4th March, 2017).
 6. Nagarajan, B., **Jesubalan, D.**, Stanley Raja, V and Palanisamy, M. Phenology, Reproduction and Adaptive variations in the Deltaic, Non-Deltaic and Island Mangroves of India: Models and Insights for combating climate change, International conference PHENOLOGY-2012, Miluvaukee, University of Wisconsin, USA. (10th -13th Sept, 2012, Paper accepted for oral presentation).
 7. Nagarajan, B., **Jesubalan, D** and Krishnakumar, N. A Review on the Pollination Ecology of True Mangroves. Paper presented in the National Consultation Workshop on “Coastal and Marine Biodiversity: Gaps, Challenges and Opportunities”. Ministry of Environment and Forests, Government of India. (12th - 13th April, 2012).
 8. Nagarajan, B and **Jesubalan, D.** Managing Mangrove Health Management: Is Reproductive Fitness stressed by hyper salinity? Paper presented in the National Seminar on Forest Health Management. Institute of Forest Genetics and Tree Breeding, Coimbatore, India. (21st and 22nd March, 2012)
 9. Nagarajan, B and **Jesubalan, D.** Ornithophilous Mangroves: Insights. Paper presented in the International conference on Indian Ornithology “Status of Indian birds and their conservation”. Salim Ali Centre of Ornithology and Natural History, Coimbatore, India. (19th -23rd November 2011).
 10. **Jesubalan, D.**, Desha Meena and Nagarajan, B. Quantifying PERS in *Mimosa diplotricha* C. Wright. Poster presented in the National Seminar on Tropical Ecosystems: Structure Function and Services. Institute of Forest Genetics and Tree Breeding, Coimbatore, India (28th -29th December- 2010).
 11. Desha Meena., **Jesubalan, D** and Nagarajan, B. Reproductive ecology of the RED listed tree species; *Canarium strictum* Roxb. Poster presented in the National Seminar on Tropical Ecosystems: Structure Function and Services. Institute of Forest Genetics and Tree Breeding, Coimbatore, India (28th -29th December- 2010).
 12. **Jesubalan, D.**, Ben, C. P and Ebenezer G.A.I. Tissue Culture, Phytochemical and Antimicrobial Study of an Important Medicinal Plant *Ichnocarpus frutescens* (L.) R .Br. Paper presented in the International Conference on Medicinal Plants and Herbal Drugs: Challenges and Opportunities in Cultivation Sustainable Utilization and Conservation, Pachaiyappa's college, Chennai, India (4th -6th March-2010).
 13. **Jesubalan, D.**, Ben, C. P and Ebenezer G.A.I. *In Vitro* Culture of an Important Medicinal Plant, *Cissampelos pareira* (L.) Var. *hirsuta*. – Paper presented in the National

Conference on Current Trends in medicinal plant research and herbal technology, Pachaiyappa's college, Chennai, India (7th and 8th March- 2008).

PARTIAL DNA GENOME SEQUENCES SUBMITTED TO NCBI

- Selvakesavan,R.K., Thushara,P., Sanu Mary,A., **Jesubalan,D.**, Sowmiya Rani,K.S., Balasubramanian,A., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012 JX840858. *Kandelia candel* potassium channel AKT1 (AKT1) gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Thushara,P., Sanu Mary,A., **Jesubalan,D.**, Sowmiya Rani,K.S., Balasubramanian,A., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012 JX840857 *Bruguiera cylindrica* potassium channel AKT1 (AKT1) gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Thushara,P., Sanu Mary,A., Balasubramanian,A., Sowmiya Rani,K.S., Sudha,S., **Jesubalan,D.**, Nagarajan,B. and Nambiar-Veetil,M. 2012 JX840856 *Bruguiera sexangula* potassium channel AKT1 (AKT1) gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Thushara,P., Sanu Mary,A., **Jesubalan,D.**, Aravinthakumar,V., Balasubramanian,A., Sowmiya Rani,K.S., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012. JX679723. *Kandelia candel* actin gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Sanu Mary,A., Thushara,P., **Jesubalan,D.**, Aravinthakumar,V., Balasubramanian,A., Sowmiya Rani,K.S., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012. JX679722. *Bruguiera sexangula* actin gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Sanu Mary,A., Thushara,P., **Jesubalan,D.**, Sowmiya Rani,K.S., Balasubramanian,A., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012. JX679719. *Bruguiera sexangula* sodium-hydrogen antiporter (NHX) gene, partial cds. Sequence published in NCBI.
- Selvakesavan,R.K., Sanu Mary,A., Thushara,P., **Jesubalan,D.**, Sowmiya Rani,K.S., Balasubramanian,A., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012. JX679718. *Bruguiera cylindrica* sodium-hydrogen antiporter (NHX) gene, partial cds. Sequence Published in NCBI.
- Selvakesavan,R.K., Sanu Mary,A., Thushara,P., **Jesubalan,D.**,Sowmiya Rani,K.S., Balasubramanian,A., Sudha,S., Nagarajan,B. and Nambiar-Veetil,M. 2012. JX679717. *Bruguiera gymnorhiza* sodium-hydrogen antiporter (NHX) gene, partial cds. Sequence Published in NCBI.
- Selvakesavan,R.K., Sanu Mary,A., Thushara,P., Balasubramanian,A., **Jesubalan,D.**, Sowmiya Rani,K.S., Venkatachalam,R., Sudha,S., Nagarajan,B. and Nambiar- Veetil,M. 2012. JQ837964. *Kandelia candel* Nhx1 antiporter (nhx1) gene, partial cds. Sequence Published in NCBI.

TRAINING PROGRAMMES/ WORKSHOPS :

- Attended Two weeks training programme for the Botanical Assistants at Botanical Survey of India, Central National Herbarium, Howrah, Kolkata. (22nd June -05th July, 2018).
- Hands on Training Workshop on Cytological Techniques, organized by Botanical Survey of India, Western Regional Centre, Pune. (12th -16th March 2018)
- Botanical Nomenclature Course, organized by Botanical Survey of India, Western Regional Centre, Pune. (9th to 12th February 2017).

- Plant Revisionary Studies and Flora Writing, organized by Botanical Survey of India, Western Regional Centre, Pune in collaboration with Naoroji Godrej Centre for Plant Research (NGCPR), Pune. (1st to 3rd December 2016).
- DNA Barcoding and Phylogenetics of Plants (DBBP- 2016), organized by Agharkar Research Institute, Pune. (17th to 21st October 2016).
- Bioinformatics Training on Protein Structure Prediction and Docking conducted by Centre for Plant Molecular Biology, TNAU, Coimbatore. (16th-20th February 2009).

SEMINARS ATTENDED:

- National Symposium on Pteridological Studies in India: Perspective and Modern approaches in Relation to Environment & Climate Change, Itanagar (22nd -23rd February 2018).
- National Symposium on the Genomic Age Challenges and Opportunities in Taxonomy and Biology of India Pteridophytes, Organized by Botanical Survey of India, Western Regional Centre, Pune (3rd – 4th March 2017).
- Participated in the Seminar on Climate change: Biodiversity and Livelihoods organized by Department of Plant Biology and Plant Biotechnology, Madras Christian College (Autonomous), Co- Sponsored by Department of Environment, Government of Tamil Nadu (13th March 2009).
- Participated in a State Level Seminar on Plant Biotechnology-Current Trends organized by Department of Plant Biology and Plant Biotechnology, Madras Christian College (Autonomous), Co- Sponsored by Department of Biotechnology, New Delhi and Tamil Nadu State Council for Science and Technology, Chennai (18th February 2008).
- Participated in a Seminar on Biotechnology: UK and Indian Perspectives organized jointly by British Council and Anna University, Chennai (11th and 12th September 2007).
- Attended a GDEST India – U.S Workshop on Agricultural Biotechnology for the Global Public Good organized by M.S Swaminathan Research Foundation, Chennai (6th October 2006).

AWARDS/MEDALS: One

1. “**Certificate of Merit 2019**” for the Excellence in Pteridophytes by Indian Fern Society, Patiala.