



NAME : Dr. SIJI MOL K
DESIGNATION : Assistant Professor
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QUALIFICATION : Ph.D Forest Biotechnology



EDUCATIONAL QUALIFICATIONS

	COURSE	INSTITUTION/ UNIVESITY	YEAR OF PASSING
UG	Botany	Calicut University	2007
PG	Biotechnology	Bharathiar University	2009
PhD	Forest Biotechnology	Forest Research Institute, Dehra Dun	2019
OTHERS	PG Diploma in Bioprocess Technology	Bharathiar University	2009

TOTAL WORK EXPERIENCE : Research (10 years); Teaching (Two years)

RESEARCH PROFILE

GUIDANCE EXPERIENCE : Guided B.Tech and M. Tech students for their academic projects (Wet lab, In sillico study, data analysis)
Guided UG students for their academic projects

AREA OF INTEREST : Plant Biotechnology, Bioinformatics, Metabolomics, Transcriptomics, Proteomics, Molecular Taxonomy

PUBLICATION :

- Dev SA, Unnikrishnan R, Prathibha PS, **K Sijimol**, Sreekumar VB, Azharali A, Anoop EV, Syam Viswanath (2023) Artificial intelligence in timber forensics employing DNA barcode database. *3 Biotech* 13, 183.
- Sijimol K**, Suma Arun Dev, Sreekumar VB (2022) Inferring population genetic structure of reed bamboo, *Ochlandra travancorica* in the Western Ghats for resource conservation, *Journal of Bamboo and Rattan*, 21(1): 8-21.
- Sijimol K**, Dev SA, Sreekumar VB (2020) DNA barcoding reveals morphospecies complex in the endemic reed bamboo genus of the Western Ghats, India. *Journal of Genetics*, 99: 68.
- Dev SA, **Sijimol K**, Prathibha PS, Sreekumar VB, Muralidharan EM (2020) DNA barcoding as a valuable molecular tool for the certification of planting materials in bamboo. *3 Biotech*, 10: 59.
- Sijimol K**, Suma Arun Dev, Sreekumar VB (2016) A review of the ecological functions of reed bamboo, genus *Ochlandra* in the Western Ghats of India: Implications for sustainable conservation. *Tropical Conservation Science*, 9(1), 389-407.
- Sijimol K**, Suma Arun Dev, Muralidharan EM, Sreekumar VB (2014) DNA barcoding: An emerging tool for precise identification and certification of planting stock in taxonomically challenging bamboo species. *Journal of Bamboo and Rattan* 13 (1&2), 29-43.
- Sijimol K**, Suma Arun Dev, Sreekumar VB (2017) Molecular systematics of the subtribe Melocanninae in paleotropical woody bamboos. In: Proc. 29th Kerala Science Congress, Extended Abstracts, Mar Thoma College, Thiruvalla, Kollam 28th -30th January 2017, 726p.
- Sijimol K**, Suma Arun Dev, Sreekumar VB (2016) Selection of suitable DNA barcodes for species identification in bamboos. In: Proc. 28th Kerala Science Congress, Extended Abstracts, Calicut University, 28th -30th January 2016, pp 2455-2464.
- Suma Arun Dev, **Sijimol K**, Muralidharan EM, Sreekumar VB (2016) DNA barcoding for the certification of planting materials in bamboos. In: National seminar on “Bamboo reserve management and advances in utilization options, Institute of Wood Science and Technology, Bangalore, 23rd- 25th February 2016. pp20.

Book Chapters:

- Sijimol K**, BG Unni (2024) Biotechnology for sustainable agriculture: a future perspective, Homo Scientia, Publisher: GEMS Arts and Science College, 219p
- Sherin F, Sukaina CP, Jubin L, Nesrin A, Adhila K, Surrayamol CP, **Sijimol K** (2024) Isolation and purification of anti-cancer enzyme L-asparaginase from soil. Homo Scientia, Publisher: GEMS Arts and Science College, 219p

Sijimol K, Minu S (2023) Genome editing in plants: CRISPR Cas technology in a future perspective. In: Current innovations in Genetics and Plant breeding (eds. S.P. Giri, A. Kumar), Integrated publications, New Delhi; 121p.

Newsletter:

Sijimol K and Balagopalan Unni (2024): Secondary Metabolites: A therapeutic source from plants (Submitted to Society of Biological Chemists)

TRAININGS ATTENDED / FDP'S / REFRESHER PROGRAMME:

- Participated in the Faculty Orientation Program on “How to Strengthen the Academic Institutions in Both Academic and Research Fronts” at GEMS Arts and Science College, Ramapuram, Malappuram, Kerala on 26th June, 2023.
- Participated in the Faculty Development Program on the topic “Outcome Based Education” at GEMS Arts and Science College, Ramapuram, Malappuram, Kerala on 2nd June, 2023.
- Attended the training programme on FDP on Academic and Administrative Audit organised by Jharkhand Government Tool Room, Ranchi from 13th to 17th February 2023.
- Attended hands on training programme on ‘PCR based methods of gene isolation’ at Institute of Forest Genetics and Tree Breeding, Coimbatore during 29th -30th July 2010.
- Presented paper in ‘National seminar on Bamboo Reserve management and advances in utilization options’ organized by Institute of Wood Science and Technology, Bengaluru, 23rd - 25th February 2016.
- Presented paper in 29th Kerala Science Congress held at Mar Thoma College, Thiruvalla, Kollam during 28th -30th January 2017
- Attended one day workshop on “Road Map to Transcriptome Interpretation’ held at Department of Biotechnology, Cochin University of Science and Technology, Kalamassery, Cochin, Kerala.