

DR. SAHAYA SHIBU B.



Designation: Assistant Professor & Head, Department
Biotechnology

Qualification: Ph.D

Email-ID: shibubt@siasindia.org

Dr. Sahaya Shibu B has earned his under-graduate degrees in Biotechnology from Madurai Kamaraj University, Tamil Nadu; he did his Post Graduation in Biotechnology from Bharathiar University and his doctorate in Biotechnology on the topic “*In vitro* propagation and screening of biological constituents in orchids- endemic to Western Ghats, Tamil Nadu, India” from Karpagam Academy of Higher Education, Tamil Nadu in the year of 2014. As a researcher in the area of Plant Biotechnology he works on developing protocol for Asymbiotic seed germination and multiple shoot induction in 6 endemic orchids of Western Ghats, India, he also published 17 research articles and one book chapter. In addition to academics, he is also an active consultant for Plant Tissue Culture and Hydroponics. He has served as a resource-person in several invited lectures. He is also serving as a Member of the Board of Studies for U.G. / P.G. Programme in Biotechnology at Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu. During the period of his teaching he was awarded with **Young Scientist Award (2021)**, **Shri C.V. Jacob Award (2021)**, **Best Teacher Award (2018-19)** and **Sadguru award (2014)**. He also received Best Research Paper/ Oral presentation Awards in 2021, 2014, 2013 and 2011. He is an Active member in Society of Biotechnologist India.

EDUCATIONAL QUALIFICATION

- B.Sc. Biotechnology
Madurai kamaraja University, Tamil Nadu 2005-2008
- M.Sc. Biotechnology
Bharathiar University, Tamil Nadu 2008-2010
- Ph.D. Biotechnology
Karpagam Academy of Higher Education, Tamil Nadu 2010-2014

WORK EXPERIENCE

- University Research Fellow (Karpagam Academy of Higher Education) - 2010-2013.
- Assistant Professor and Head (SAFI Institute of Advanced Study)- 2014- till date

AREA OF INTERESTS

- Plant Tissue Culture
- Phytochemistry
- Hydroponics/Aeroponics

PUBLICATIONS

B Sahaya Shibu, P Servin Wesley, Sarmad Moin, B Chitra Devi. 2014. *In vitro* regeneration of *Coelogyne nervosa* A.Rich. and *Eria pseudoclavicaulis* Blatt., threatened orchids of Western Ghats, India. *Indian journal of Experimental Biology* 52: 658-663.

Sahaya Shibu B, Chitra Devi B, Sarmad Moin, Servin Wesley P, 2013. Evaluation of Bioactive potential of *Coelogyne nervosa* A.Rich. - An endemic medicinal orchid of Western Ghats. *Asian Journal of Pharmaceutical and Clinical Research*. 6(1): 114-118.

Sahaya Shibu B, Servin Wesley P, Sarmad Moin, Chitra Devi B, 2012. Preliminary phytochemical screening, antibacterial and antioxidant activity of *Eria pseudoclavicaulis* Blatt. -An endemic orchid of Western Ghats. *American journal of Pharmtech Research* 2(6): 518-525

Sahaya Shibu B, Servin Wesley P, Sarmad Moin, Chitra Devi B, 2012. *Ex situ* conservation of endemic orchids of Western Ghats, Tamilnadu, India *via* asymbiotic seed germination. *Advances in Applied Science Research* 3(5): 3339-3343.

Sarmad Moin, **Sahaya Shibu B**, Servin Wesley P, Chitra Devi B, 2012. Bioactive potential of *Coelogyne stricta* (D.Don) Schltr: An ornamental and medicinally important orchid. *Journal of Pharmacy Research* 5(4): 2191-2196.

Sarmad Moin, **Sahaya Shibu**, Servin Wesley, Chitra Devi B. 2012. Antimicrobial activity of *in vitro* raised *Acmella calva* (DC.) R.K.Jansen. *International Journal of Pharmacy and Pharmaceutical Sciences* 4 (5) 124-127.

Sarmad Moin, **Sahaya Shibu B**, Servin Wesley P, Chitra Devi B. 2012. *In vitro* Screening of Antibacterial Protein Activity from Medicinal and Economically Important Plants Seed. *Drug Invention Today*. 4(10) 533-536.

Sarmad Moin, **Sahaya Shibu B**, Servin Wesley P, Chitra Devi B. 2012. Comparative evaluation of the antimicrobial activity of protein from medicinal and economically important plants. *International Journal of Pharmaceutical Sciences Review and Research*. 17(1) 81-85.

Chitra Devi B, Mahendran P, Servin Wesley P, **Sahaya Shibu B**, Vetrivel P, Mallagivathi D, 2012. Micropropagation of *Acmella calva* using encapsulated *invitro* nodal explants. *Journal of Tropical Medicinal Plants*.13(1): 33-41.

Chitra Devi B, **Sahaya Shibu B**, Servin Wesley P. 2012. *In vitro* regeneration of *Coelogyne stricta* Direct somatic embryogenesis. *Journal of Tropical Medicinal Plants*.13(2): 153-161

Sarmad Moin, **Sahaya Shibu Babu**, Arumugam Mahalakshmi Priya, 2012. *In vitro* callus production and antibacterial activity of *Barleria lupulina* Lindl. *As. Pac J. Mol. Biol. Biotechnology* 20 (2): 59-64

Servin Wesley P, Chitra Devi B, Sarmad Moin, **Sahaya Shibu B**. *In Vitro* Phytochemical Screening, Free Radical Scavenging Activity And Anticancer Activity Of *Abutilon hirtum* (Lam.) Sweet (Malvaceae), 2013. *International Journal of PharmTech Research*. 5 (1): 155-161.

Servin Wesley P, Chitra Devi B, **Sahaya Shibu B**, Sarmad Moin. 2013. Determination of trace elements and functional groups analysis of *Abutilon hirtum* (Lam.) Sweet with energy dispersive X-ray and FT-IR Spectroscopy *Research J. Pharm. and Tech*. 6(3): 264-266

Servin Wesley P, Chitra Devi B, **Sahaya Shibu B** and Sarmad Moin. 2013. *In vitro* propagation of *Coelogyne breviscapa* Lindl., *Dendrobium aqueum* Lindl., and *Flickingeria nodosa* (Dalz.) Seidenf. via asymbiotic seed germination. *As Pac J. Mol. Biol. Biotechnol*. 21(1): 26-32

Sarmad Moin, Chitra B. Devi, Servin P. Wesley, **Shibu B. Sahaya** & Zoya Zaidid. 2014. Comparative Phytochemical and Antibacterial Screening of Important Medicinal Plants of Celastraceae. *Journal of Biologically Active Products from Nature*. 4 (1): 37 – 43

T.P. Ragi and **B. Sahaya Shibu**, 2014. *In vitro* propagation of *Boerhavia diffusa* L. (Nyctaginaceae) via nodal and leaf explants. *AsPac J. Mol. Biol. Biotechnol*. Vol. 22 (3) : 219-223

Aswathi, **Sahaya Shibu**, Agila Gopinath and Akhila Mohan. 2017. *In vitro* propagation of *Spathoglottis plicata* blume via asymbiotic seed germination. *Int. J. Adv. Res.* 5(3), 431-438

PRESENTATIONS

1. Presented a research paper entitled Ex situ conservation of endangered medicinal orchid *Coelogyne nervosa* A. rich. Via asymbiotic seed germination and pseudobulb culture in a UGC sponsored Online National Conference on Recent Trends in Biology organized by NEWMAN COLLEGE Thodupuzha, Kerala, India on September 28 and 29, 2021.
2. Presented a research paper entitled *In vitro* Conservation of Endangered Medicinal orchid *Coelogyne nervosa* via pseudobulb culture in an International Virtual Conference on Environment, Agriculture, Human and Animal Health organized by Voice of Indian Concern for Environment (VOICE) on June 5th and 6th 2021.
3. Presented a research paper entitled In vitro conservation of *Eria pseudoclavicaulis* Blatt., threatened orchid of Western Ghats, India via asymbiotic seed germination and callus induction in a National Virtual conference on recent breakthrough in biotechnology (NCRBB 2021) organized by Department of Human Genetics and Molecular Biology, Bharathiyar University Coimbatore & Society for Biotechnologist India (SBTI) on 22-23 Jan 2021.
4. Presented a research paper "*In vitro* propagation of *Spathoglottis plicate*" in a Two day National Symposium on Modern Biological Sciences held on 20th and 21st Feb 2017 organized by Department of Bioscience and Research, SNMV CAS, Coimbatore
5. Presented a research paper entitled "*In vitro* propagation of *Plectranthus rotundifolius* (Poir.) Spreng. via Callus induction and Multiple shoot formation" in the National Conference on Insights to Futuristic Bioscience-NSIFB 2016 organized by PG and Research Department of Biotechnology and Microbiology, Hindusthan college of Arts and Science, Coimbatore on January 29th 2016.
6. Presented a research paper entitled "*In vitro* propagation of *Boerhavia diffusa* L. (Nyctaginaceae) – A medicinal plant of Kerala" in the National Seminar on "Medicinal Plants in Primary Healthcare" sponsored by KSCSTE is being organized by Department of Botany, Sree Narayana College, Kannur on 29th and 30th September, 2015.

WORKSHOPS/ TRAINING ATTENDED

- Refresher training program on "**Gene Expression Analysis**" conducted by College of Agriculture, Vellayani, Thiruvananthapuram from 14-07-2014 to 24-07-2014, sponsored by Kerala Biotechnology Commission, KSCSTE, Thiruvananthapuram.
- UGC sponsored National workshop on **Basic Techniques in Isolation, Purification and Characterization of Proteins** conducted by Post graduate Department of Biochemistry in association with society of Biological Chemists (India), Mysore

Chapter at JSS College of Arts, Commerce and Science, Mysore-570025 on 10th to 13th December 2012.

- Hands on training on **Bioinstrumentation** (HPLC, HPTLC, PCR, and UV- Spec) at Karpagam Pharmacy College, Coimbatore on 23rd Nov - 5th Dec 2009.
- Workshop on **Diploma in recombinant-DNA technology and genetic engineering with RAPD** at Best Biotek research labs, Bangalore on 11th may - 11th June 2009.
- Basic Optimization techology workshop organized by REST society for Research International (RSRI) Krishnagiri, Tamil Nadu, India.
- Workshop on Computer Aided Drug designing conducted by UniBiosys, Biotech research Lab, Cochin, Kerala.

Research Projects

KSCSTE Sponsored student project

In vitro propagation of *Spathoglottis plicata* Blume via asymbiotic seed germination

2016-
2017

KSCSTE Sponsored student project

Direct Plant regeneration from encapsulated nodal segments of *Plectranthus rotundifolius*

2017-
2018

MEMBERSHIP/ CERTIFICATIONS

- Life Member in Society for Biotechnologist India

OTHER DUTIES (INTERNAL/ EXTERNAL)

Sl. No.	Name of the position held	Time period
1	Head, Department of Biotechnology	August 2018- till date
2	Convener, Career Guidance Cell	2020-till date
3	Convener, Career Guidance, Competitive exam & Placement Cell	2019-2020
4	SIAS-CSR Research council Member	2018-2019

5	Member, IQAC	2018-2019, 2019-20, 2020-21
6	Member, Steering Committee	2017-2018
7	Coordinator, Human Resource development Centre	2018- 2019
8	Director, International Academics	2017- 2018
9	Convener, Career Guidance and Placement Cell	2017- 2018

•