



Name: Dr. N. Shibin Mohanan

Designation and Department: Assistant Professor,
Department of Botany

Date of Joining: 25th June 2013

Contact info:

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Teaching Experience in years:

7yrr of UG teaching at Nirmala College, Muvattupuzha
8 months UG and PG teaching at St.Albert's College,
Ernakulam

Details of Promotions: Nil

Academic Credentials – From Degree to the highest academic qualification

(Can be descriptive, you can mention your PhD topic or the details of University ranks, etc)

**PhD from CSIR-Central Food Technological Research Institute, Mysore (Affiliated to University of Mysore)
Awarded in February 2014**

Topic: Molecular characterization of transformants of *Coffea canephora* Pierre for lowered caffeine

M.Sc in Botany (Specialization Plant Breeding and Biotechnology

St. Joseph's College, Devagiri, Calicut (affiliated to University of Calicut)

B.Sc in Botany

St. Joseph's College, Devagiri, Calicut (affiliated to University of Calicut)

Awarded Junior research Fellowship in CSIR-JRF/NET in June 2004

	<p>Qualified ICAR-ARS NET December 2014</p>
<p>Scopus ID or Any Other Research ID: https://scholar.google.co.in/citations?user=inNnYGkAAAAJ&hl=en https://www.researchgate.net/profile/Shibin_Mohanan</p>	<p>Areas of Interest</p> <ul style="list-style-type: none"> a. Teaching: Environmental Studies, Genetics, Biotechnology, Molecular Biology b. Research: Molecular characterization of secondary metabolites, Small RNA biology, Environmental Genomics.
<p>Subjects Taught: Environmental studies, Genetics and plant Breeding, Biotechnology, Plant Physiology</p>	
<p>Institutional Responsibilities (Past and Present - Time period should be mentioned) Coordinator- Idea Club Coordinator- Consultancy Service (Edison Circle) Coordinator- Science Forum Coordinator- Encon Club Joint Coordinator – Green Audit Coordinator- Swachh Campus Survey Auditorium management (All Programmes) Coordinator- DBT star College Scheme Secretary, Purchase Committee</p>	

Member FIST project Implementation Group
Member DBT star College implementation group
Member Nirmala research group
Member Campus Ecological Committee
Member IPR cell
Member College Innovation Council
Member UGC committee
Member RUSA project Monitoring Committee

Awards and Recognitions (Including membership in BoS) –

1. Awarded **Junior Research fellowship** of Council of Scientific and Industrial Research (CSIR), India, after qualifying a national level competitive Examination conducted by CSIR-India.
2. Awarded **National Eligibility Test (NET)** conducted jointly conducted by Council of Scientific and Industrial research, India and University Grants Commission, India
3. Awarded **Agricultural Research Service- NET (ARS-NET)** conducted by Indian council for Agricultural Research, New Delhi.
4. Selected for the prestigious FLAIR-Kerala International internship-2014-15.
5. Visited Durham University for a period of 1 month under the FLAIR-Kerala International internship
6. Member Board of Studies – Under Graduate Course(Botany), Mahatma Gandhi University, Kottayam

Membership in Board of Question Paper Setters:

UG Botany: University of Calicut, Chelari
UG Botany: Mahatma Gandhi University, Kottayam
UG Botany: St. Joseph's College(Autonomous), Devagiri.

Editor of Journals:

Referees in Journals:

European Journal for Plant breeding
3Biotech (BITC): Springer nature
Cellular and molecular life science : Springer
Journal of plant Biotechnology and Biochemistry: Springer

Details of Research Guidance

Details of Patents Filed and Acquired

Membership in Subject Related Professional Associations

NIRMALA COLLEGE, MUVATTUPUZHA, KERALA

Faculty Academic Profile

a. Research Projects

Title	Details	Amount	Nature	Status
Riverine biodiversity Monitoring- Impact of Flood/landslides on Biodiversity	Kerala state biodiversity Board	700000	Flood Impact Study	completed
Evaluate the effect of different physical and chemical treatments on ripening of Musa spp. Cultivar Palayankodan.	Kerala state council for science, technology and environment	7500	Student Project	Completed
Phytochemical evaluation of effect of soil enrichment of Azospirillum / Azobacter on curcumin content in Curcuma longa L.	Kerala state council for science, technology and environment	7500	Student Project	Completed

b. Research Papers in International Journals

Year	Title	Name of the Journal	Volume/Issue / doi number	Remarks (CARE list number or Scopus Number)
2014	Posttranscriptional gene silencing using homologous coding sequence for Coffee N-methyltransferase genes comprising a multigene family.	Journal of Plant Biochemistry and Biotechnology (IF: 0.6)	23, 99–409	https://www.scopus.com/sourceid/17624 ISSN:0971-7811 E-ISSN:0974-1275
2013	Involvement of a novel intronic microRNA in cross regulation of N-methyltransferase genes involved in caffeine biosynthesis in <i>Coffea canephora</i>	Gene (IF: 2.984)	Volume 519, Issue 1, 25 Pages 107-112	https://www.scopus.com/sourceid/15636 ISSN:0378-1119E-ISSN:1879-0038
2012	Insilico identification of conserved microRNAs and their in <i>Coffea canephora</i>	Dynamic Biochemistry, Process Biotechnology, Molecular Biology	6(2): 70-76.	ISSN: 1749-0626 (Print) 1749-0626 (Linking)

c. Research Papers in Edited Books

Year	Title	Name of the Book	Volume/Issue/ISBN	Remarks
2020	Fungal Chromism on bacterial territory.	Perspectives in Life Sciences	279-292. ISBN: 978-93-88992-90-9	Chapter 24. Ed. Dr. M.V Sudhakaran
2020	Lipids Biosynthesis in Microalgae,	Recent Trends in Biotechnology: Applied algal Biotechnology	ISBN: 978-1-53617-524-0	Chapter 6 Publisher: Nova science publishers, USA

d. Books Edited

Year	Name of the Book	Publisher	ISBN	Remarks
2020	Perspectives in Life Science	SPCS, kottayam Kerala and UGC-HRDC Calicut	978-93-88992-90-9	

e. Details of Paper Presentations (Table can be inserted according to specific needs)

1. **N.Shibin Mohanan**, Arun Chandrashekar “ **Mirton mediated synergistic regulation** of caffeine biosynthesis in *Coffea canephora*” presented the paper in International Conference on

cell and Molecular Biology held on October 2011 at Nirmala College, Muvattupuzha, Kerala, India.

2. **Shibin Mohanan**, Giridhar P, Ravishankar G A. and Arun Chandrashekar “**Differential expression of microRNA and their role in regulation of auxin response in *Coffea arabica* and *Coffea canephora*.**” Poster presented at 6th Solanaceae Genome Workshop organized by Solanaceae Genome Network held during 08th November 2009 at Hotel Le Meridien, New Delhi.
 3. **Shibin Mohanan N.**, Giridhar P, Ravishankar G.A., Arun Chandrashekar “**Expression of microRNA and control of transcription factors in diploid and tetraploid coffee.**” poster presented at Indo-US workshop on epigenetic regulation and genome control held during 16th -18th December 2009 at Centre for Cellular and Molecular Biology Hyderabad, India.
 4. N. Anila, **Shibin Mohanan N.**, A. Chandrashekar and Sarada R. “**Computational identification of microRNA in *Dunaliella***” poster presentation of the paper at the International Symposium on Phycological Research (ISPR 2010) held during 25- 27th February 2010 at Center of Advanced study in Botany, Banaras Hindu University, Varanasi, India.
 5. **N. Shibin Mohanan** (Invited Speaker / Resource Person) “ **Post Transcriptional Gene silencing in plants**” DBT sponsored National Seminar on Emerging Trends in Biotechnology and Bioinformatics: BIOINFO-TECH held on 5th February 2013 at St. Albert’s College, Ernakulam.
 6. **Invited speaker “ Small yet mighty” Recent innovations and current trends in biological sciences (RICTBS-2017) on 8th February at Bishop Moore Colleg, Mavelikara, Kerala.**
 7. **Resource Person “Recent developments gene cloning and sequencing techniques”** 10 day refresher course on Biology for Higher Secondary School Teachers, organized by Department of General Education, Govt of Kerala held on 21st November 2018
 8. **Resource Person “Recent developments in molecular biology – gene editing by crisper”** 10 day refresher course on Biology for Higher Secondary School Teachers, organized by department of General Education, Govt of Kerala held on **16.10.2019**
 9. **Resource person “ Impact of Flood/landslide on soil Microflora”** Impact of flood and landslides on biodiversity meeting of BMCs, Idukki District, organized by Kerala state biodiversity Board held on 24th January 2020.
- f. **Details of Orientation Programme/ Refresher Course Attended (Table can be inserted according to specific needs).**
1. **18th Refresher course in Life Science, UGC HRDC, University of Calicut, Chelari held from October 18th to October 31st 2019**

2. **108th Orientation programme UGC-HRDC JNU, New Delhi held from 9th October 2017 to 03rd November 2017**
 3. **One month Training program on Teaching learning techniques and research collaborations at Durham University, UK**
- g. Details of MOOC Courses Completed**
1. **How to learn online (edx0**
 2. **Covid-19: What you need to know9 CME, Eligible)**
 3. **21 day Online GIS training program using QGIS**
 4. **Managing online classes and co-creating MOOCS 3.0**
- h. Any other relevant matters**