



St Thomas College, Kozhencherry

Established in 1953 | Reaccredited by NAAC with Grade A | ISO 9001:2015 Certified | ISO 21001:2018 Certified

Affiliated to Mahatma Gandhi University, Kottayam

www.stthomascollege.info

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Faculty Profile

Dr. Anju V. Jalaj

Assistant Professor

Department of Botany

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Personal Details

Date of Birth	26.05.1987
Nationality	Indian
Marital Status	Married
Permanent Address	Subhra House, Parasuvaikkal P. O., Thiruvananthapuram-69508, Kerala, India.

Higher Education

2018	Ph D. Botany, University of Kerala, Thiruvananthapuram.
2010 – 2011	M.Phil Botany, Scott Christian College (Autonomous) Nagercoil.
2008 – 2010	M.Sc Genetics and Plant Breeding, University of Kerala, Thiruvananthapuram.
2005 – 2008	B.Sc Botany and Biotechnology, A J College of Science and Technology, Thonnackal, Thiruvananthapuram.

Professional Position

09 March 2020 to present	Assistant Professor, Department of Botany, St Thomas College, Kozhencherry
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Teaching Experience

09 March 2020 – Present	St Thomas College, kozhencherry
26 August 2019 – 06 March 2020	Department of Botany, University of Kerala, Kariavattom
6 June 2019 – 24 August 2019	Mar Ivanios College (Autonomous), Thiruvananthapuram
June 2018 – March 2019	All Saints' College, Thiruvananthapuram
June 2016 – March 2017	All Saints' College, Thiruvananthapuram

Courses Taught

M.Sc	Microbiology
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Courses Taught (continued)

	■ Bryology
	■ Developmental Biology
	■ Molecular Biology
	■ Biochemistry
	■ Biotechnology
	■ Biostatistics
	■ Genetic Engineering
	■ Immunology
B.Sc	■ Phycology
	■ Plant Pathology
	■ Agri-based Microenterprises (Open Course)
	■ Biotechnology


Professional Service Rendered

2020 till date	■ Sub-Committee Member, IQAC Criteria II- Teaching, Learning Evaluation
AY 2022-'23	■ Convenor, Biodiversity Club
	■ Nodal Officer, Bhoomitrasena Club
AY 2021-'22 till date	■ Convenor, Remedial Coaching Committee
	■ Convenor, UNAI-ASPIRE
	■ Editorial Committee Member, Reyono Journal of Interdisciplinary Studies
	■ Member, Mentoring and Tutorial Committee
	■ Member, General Programme Committee
	■ Member, Committee for State/Central Govt. and Other Scholarships
AY 2021-'22	■ Member, Remedial Coaching Committee
	■ Member, Remedial Coaching Committee
AY 2020-'21	■ Member, RED Cell
	■ Member, Multi-disciplinary Research Centre
	■ Coordinator, Botany Association, Department of Botany, St Thomas College, Kozhencherry
	■ Additional Examiner, M.Sc and B.Sc. Degree Examinations held under Mahatma Gandhi University, Kottayam

Other Important Responsibilities/Positions Held

2023	■ Scheme Preparation Team Member of Third Semester MSc Botany Degree Examinations, Mahatma Gandhi University, Kottayam.
2022	■ Scheme Preparation Team Member of Second Semester MSc Botany Degree Examinations, Mahatma Gandhi University, Kottayam.
	■ External Examiner for conducting Practical Examinations of BSc Botany and Biotechnology (second semester), Mar Ivanios College, Thiruvananthapuram.
	■ Judging Panel Member for 15th Children's Biodiversity Congress of Pathanamthitta District held on 26.11.2022 at Govt. UP School, Pullad.




Other Important Responsibilities/Positions Held (continued)

- 2021  Panel Member for Scheme Preparation and Evaluation of Answer Scripts of BSc Botany and Biotechnology Programme, Mar Ivanios College (Autonomous), Thiruvananthapuram.


Professional Membership and Activities

- 2022  Member, Technical Support Group, Kerala State Biodiversity Board, Pathanamthitta District





Awards and Achievements

- 2008  Received Kerala University Merit Scholarship for highest marks in BSc Degree
- 2010  Secured Second Rank, MSc Genetics and Plant Breeding Programme
- 2011  Received Gold Medal for securing First Rank in M Phil Programme
-  Awarded KSCSTE Fellowship (Government of Kerala) for Research
- 2013  49th Rank, CSIR-UGC NET
- 2019  Best Paper Award in International Symposium on Metabolism and Aging, organized by Department of Zoology, Mar Ivanios College in association with Oklahoma Medical Research Foundation (OMRF), USA





Research Experience

-  **Research Scholar**, Department of Botany, University of Kerala, Kariavattom. (from 8th August 2012 to 7th August 2017)
Area of Research: Phytochemistry and Diversity Study

Areas of Specialization and Interest

-  **Biotechnology**
-  **Phytochemistry**
-  **Plant Diversity Analysis**
-  **Cytology**

Research Publications

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| Books |  Best Skin Care Formulation in Ayurveda (Author)..
ISBN: 978-1-64828-1-413-7. |
| |  Phytography of Shoe Flower Cultivars (Author)..
ISBN: 978-1-64828-3-365-9. |
| |  Healthy Diet for Tommorrow - A Learning (Editor)..
ISBN: 9798889751069. |
| Book Chapter |  Plant Secondary Metabolites as Nutraceuticals. In: Plant Metabolites: Methods, Applications and Prospects.
Lini Nirmala, Zyju Damodharan Pillai Padmini Amma and Anju V. Jalaj. Plant Metabolites: Methods, Applications and Prospects, 2020; 239-253. Springer Nature. |

Research Publications (continued)

- Recent Research Papers
- **Identification of Luteolin and Genistein in Operculina turpethum (L.) Silva Manso leaf.**
Anju V Jalaj and P M Radhamany. ICRTASET-2019 Proceedings. ISBN: 978-81940463-7-0.
 - **Antioxidant and anti-diabetic potential of Operculina turpethum (L.) Silva Manso leaf.**
Anju V Jalaj and P M Radhamany. International Journal of Pharmaceutical Sciences and Research, 2019; 10(6), 2898-901.
 - **Effect of chemical mutagenesis in Capsicum annum L. Cv Jwalamukhi.**
Anju V Jalaj. International Journal of Scientific Research and Reviews, January-March, 2019.
 - **Quality analysis of four commercial black tea brands in India.**
Anju V Jalaj. International Journal Research and Analytical Reviews, December, 2018, Volume 5(4), 22-27.
 - **Identification and quantification of phenolic compounds from Operculina turpethum (L.) Silva Manso leaf by HPLC method.**
Anju V Jalaj and P M Radhamany. International Journal of Pharmaceutical Sciences and Research, 2016; 7(4), 1656-61.
 - **Pharmacological analysis of the polyherbal formulation “Kush-takhnani kwatham”.**
Anju V. Jalaj, B. Christudhas Williams and R. Mary Suja. World Journal of Pharmacy and Pharmaceutical Sciences, 2016, Volume 5(4), 1016-1021.
 - **Studies on the antibacterial activity of selected medicinal plants against human skin pathogens.**
Anju V. Jalaj, B. Christudhas Williams and R. Mary Suja. European Journal of Pharmaceutical and Medical Research, 2016, Volume 3(4), 168-171.

Popular Articles

- 2020 ■ Plant Secondary Metabolites as Nutraceuticals Plant Metabolites: Methods, Applications and Prospects. Springer Nature, 239-253.
- 2019 ■ Antioxidant And Anti-Diabetic Potential Of Operculina Turpethum (L.) Silva Manso Leaf. International Journal of Pharmaceutical Sciences and Research 7 (4), 1656.

Paper Presentations

- 2022 ■ **Leaf Trait Variation among Fifteen Selected Accessions of Operculina turpethum (L.) Silva Manso.** International Conference on Sustainable Utilization of Bioresources organised by the Department of Botany, University of Kerala. 10th - 15th January 2022.
- 2020 ■ **Identification of Luteolin and Genistein from bioactive fraction of Operculina turpethum (L.) Silva Manso.** International webinar on Phytochemistry organized by Kerala Academy of Sciences. 28th - 29th September 2020.
- 2019 ■ **Nutraceutical potential of Operculina turpethum (L.) Silva Manso.** International Symposium on Metabolism and Aging organized by department of Zoology, Mar Ivanios College in association with Oklahoma Medical Research Foundation (OMRF), USA at Mar Ivanios College during 16-17 July 2019.

Paper Presentations (continued)

- 2018 **Apoptosis induction capacity of an active fraction from *Operculina turpethum* (L.) Silva Manso (Convolvulaceae).** International conference on conservation of natural resources and traditional siddha pharmacological approach for your future and foldscope workshop held during 12-14 December, 2018.
- 2016 **Anti-diabetic potential of *Operculina turpethum* (L.) Silva Manso- An in vitro study.** XIII conference of the Society of Cytologists and Geneticists held from 15-17 December, 2016.

Project Guidance

- M.Sc **Adhithya Gopal**, *Survey on Terrestrial and Aquatic Plant Diversity of Two Areas in Neervilakom Village of Pathanamthitta District* (2020-22 Batch)
- Manjima Renjith**, *A Study on Morphology, Anatomy and Phytochemistry of *Cyclosorus interruptus** (2020-22 Batch)
- Shalu Thomas**, *Evaluation of Phytotoxic and Antimicrobial Effects of green Synthesized Silver Nanoparticles from *Lantana camara* L. and *Psidium guajava* L.* (2019-21 Batch)
- Sara M. Roy**, *Leaf Extract Mediated Green Synthesis of Silver Nanoparticles from Some Weed Plants: Synthesis, UV Characterization, Antifungal Property and Toxicity Analysis* (2019-21 Batch)
- B.Sc **Aleesha Christopher, Lekshmi Prasanna, Seethal S., Varsha Vinod**, *Effect of *Pueraria montana* var. *lobata* (Willd.) Sanjappa and amp; Pradeep leachate on seed germination and seedling vigour of selected plants* (2019-22 Batch)
- Anjali Ajikumar, Ansu Sabu, Christeena S. Johnson, Jyothilekshmi, Sreenu S.**, *Influence of Short Day Treatment on Growth Characteristics of *Portulaca grandiflora* Hook* (2018-21 Batch)

Faculty Development Programmes Attended

- 2022 **MOOC:** Completed the e-Learning course on Cancer Fundamentals by Indian Cancer Society - Delhi Branch with the technical assistance of Guru Angad Dev –Teaching Learning Center, University of Delhi under Ministry of Education.
- Short Course:** Participated in International Short Term Training Programme 2 (online) on ‘Impact and Panacea of Environmental Pollution: The Past, Present and Future’ organised by Raj Rishi Govt. Autonomous College during 20 - 26 April, 2022.
- 2021 **FDP:** Completed One Week Faculty Development Programme on “Innovation And Entrepreneurship Development” organized by UGC- STRIDE, Mahatma Gandhi University in association with K. E. College, Mannanam during 15- 21 April, 2021.
- Orientation:** Completed a 4-Week Induction Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” organised by Teaching Learning Centre, Ramanujan College, University of Delhi (PMMMNMSTT) during 18 May- 17 June, 2021.

Recent Seminars/ Conferences/ Workshops Attended

- 2022 **International Conference on Sustainable Utilization of Bioresources** organised by the Department of Botany, University of Kerala during 10-15 January, 2022.



Recent Seminars/ Conferences/ Workshops Attended (continued)

- 2021
- Higher Education and Cyberspace: Reconfiguring Institutional Strategies, organized by Mar Thoma Higher Education Council (MTHC) of the Malankara Mar Thoma Syrian Church of Malabar during 31st July – 1st August, 2021.
 - Webinar on Clinical Cytogenetics: Chromosome to genomics, organized by PG and Research Department of Zoology, St Thomas College, Kozhencherry on 14 July, 2021.
 - Stress-induced transgenerational epigenetic memory in plants’organized by Kerala Biotechnology Commission (KBC), Kerala State Council for Science, Technology and Environment (KSC-STE) on 21 May, 2021.
 - Synthetic Biology in Natural Product Drug Discovery”organized by Post Graduate and Research Department of Botany, St. Thomas College, Kozhencherry on 22 March, 2021.
- 2020
- Transactional Analysis and Mindfulness in Reflective Teaching’ organized by the IQAC, St Thomas College, Kozhencherry, in association with KSHEC on 10th November, 2020.
 - Discovering Emotionally Intelligent Teacher Within you: The Journey towards Emotopia. organized by IQAC, st Thomas College Kozhencherry on 27th October, 2020.
 - ‘Online Resources and Skill Development’ organized by the Massive Open Online Course (MOOC) Committee in association with Internal Quality Assurance Cell (IQAC), ST Thomas College, Kozhencherry.
 - International webinar on Phytochemistry organised by Kerala Academy of Sciences during 28-29 September, 2020.
 - Outcome Based Education’ organized by the Internal Quality Assurance Cell, St Thomas College, Kozhencherry, in association with Kerala State Higher Education Council on 16th July, 2020.
 - Webinar Series on Genomics of COVID- 19 - hurdles in developing Vaccines and Drugs” organized by the Inter University Centre for Genomics and Gene Technology, University of Kerala, Kariavattom during 23rd June 2020- 29th July, 2020.
 - Waste Management During COVID –19 Pandemic organized by UN Environment Programme on 18th June, 2020.
 - Indoor gardening: A guide for beginners organised by Department of Botany, St Xavier’s College for Women, Aluva on 20th May, 2020.



Recent Seminar/Conferences/Workshops Organized

- 2022
- Coordinator, National Seminar on “Sustainable Utilization of Agrobiodiversity” by Biodiversity Club in Association with Kerala State Biodiversity Board on 5th December 2022.
 - Coordinator, Virtual Workshop on “Clean Water and Sanitation” organized by UNAI-ASPIRE, St Thomas College, Kozhencherry on 12th February 2022.
- 2021
- Coordinator, Vegetos Programme, organized by Department of Botany, St Thomas College, Kozhencherry on 5th March 2021.
- 2020
- Coordinator, National Webinar on Research Methodology by Department Of Botany, St Thoams College, Kozhencherry on 6th November 2020.



Invited Talks

- 2021  Resource Person for International Webinar Series (Webinar 4) on the topic 'Wetland Restoration: Prospects and Challenges' organised by Research Centre and Post Graduate Department of Environmental Sciences, All Saints' College, Thiruvananthapuram on 09.06.2021, in connection with World Environment Day Celebrations 2021.
- 2022  Resource Person for 4-day National workshop on River Pamba: Environmental Dimensions and Cultural Legacy (Day 4) on the topic 'Biotreasures on the Pamba river bank: Vegetation linked to culture and environment protection' organised by Department of History and Political Science, St Thomas College, Kozhencherry during 17,18, 19 and 21 March, 2022.

Community Service

- 2022  Co-ordinated the event 'Illumina-Action for Education' at Model Residential School for Tribal Students at Vadasserikkara with an aim to motivate tribal students to pursue higher education.
- 2021  Co-ordinated the development of a Video for the public to create an awareness on antibiotic use.

Skills

-  Soft Skills-Communication, Team Work, Adaptability, Creativity, Leadership, Work Ethic, Interpersonal Skills
-  Practical Skills- Microbial culture, DNA isolation, PCR Amplification, Cytology, Phytochemical Characterization