


FACULTY PROFILE

PERSONAL PARTICULARS			
Name	KALPANA V S		
Department	Biochemistry and Industrial Microbiology		
Designation	Assistant Professor		
Organization	National College, Manacaud, Trivandrum		
Date of Join	20/01/2023		
Core Discipline	Biochemistry		
Specialization	Biochemistry		
Areas of Interest	Physiology Life style diseases Plant biochemistry Clinical Biochemistry Metabolism Nanotechnology Food science		
Address	Sreevalsam, Venpakal, Venpakal. P. O Trivandrum -695123		
Phone Number	9747424760	Email id	kalpanavs@ncas.edu.in
PROFESSIONAL QUALIFICATIONS			
Qualification	Specialization	Institution	
PhD -Presubmission seminar completed	Biochemistry	Department of Biochemistry University of Kerala Kariavattom Campus	
MSc	Biochemistry	Department of Biochemistry University of Kerala Kariavattom Campus	
BSc	Biochemistry	Govt. College, Kariavattom Trivandrum	
HISTORY OF EMPLOYMENT			
	Level	Years of Service	Institution
	U.G	1 year 2months	National College, Manacaud, Trivandrum
	P.G	1 year 2months	National College, Manacaud, Trivandrum
PROFESSIONAL RESPONSIBILITIES HELD			

Active member in DLMC

SUBJECTS TAUGHT

- Physiological aspects of biochemistry and enzymology
- Food science
- Clinical biochemistry
- Advanced biochemistry
- Physiology
- Plant biochemistry
- Techniques in biochemistry
- Analytical techniques in biochemistry and biophysical chemistry
- Cell biology
- Methods in research
- endocrinology

RESEARCH PUBLICATIONS / JOURNAL

1. VNS Kalpana, J Mary, S Mini, NPP Soumya, S Mondal, ***Hibiscus rosa sinensis* L. anthocyanins prevent lipid peroxidation and improve antioxidant status in the liver of streptozotocin-induced diabetic rats**, Bioactive Compounds in Health and Disease 2021; 4(10): 240-255.
2. RJ Anish, F Rumaisa, TR Aswathy, VNS Kalpana, AA Rauf, Molecular docking, anti-inflammatory, antimicrobial and antioxidant evaluation of *Pterospermum rubiginosum* B. Heyne Trends in Phytochemical Research 7 (2), 95-109, 2023

RESEARCH PUBLICATIONS / CONFERENCES

1. Kalpana V S and Mini S. ***Hibiscus rosa sinensis* L. anthocyanins improve dyslipidemia and modulates expression of genes involved in reverse cholesterol transport in high energy diet/ low streptozotocin-induced diabetic rats**. Life sciences for sustainable development: issues and challenges;2022(ISBN: 978-93-5620-800-1
2. Kalpana V S and Mini S. ***Hibiscus rosa sinensis* L. anthocyanins modulate hyperglycemia by attenuating hepatic enzymes of carbohydrate metabolism on high energy diet/low STZ- induced diabetic rats**. Advances in Industrial Biotechnology;2022 (ISBN: 978-81-954771-4-2)

WORKSHOP/ SEMINARS/FDPs ATTENDED

1. Participated in the Two day workshop on Research Methodology, organized by Kerala University Research Students Union in association with Internal Quality Assurance Cell (IQAC), University of Kerala on 12- 13 July 2017 at Kariavattom Campus, University of Kerala, Thiruvananthapuram.
2. Participated in the Three day workshop on Laboratory Animal Handling, organized by Department of Biochemistry, University of Kerala on 19- 21 October 2017 at

Kariavattom Campus, University of Kerala, Thiruvananthapuram.

3. Participated in the International Seminar on Recent Biochemical Approaches in Therapeutics 2018 (RBAT-2018) organized by Department of Biochemistry, University of Kerala on 23-25 January 2018.
4. Participated in the Two day workshop on Medicinal Plant Taxonomy, Cultivation and Conservation organized by Department of Botany, University of Kerala on 11-12 December 2017 at Kariavattom Campus, University of Kerala, Thiruvananthapuram
5. Participated in the International Seminar on “Regenerative Medicine and Chronic Degenerative Diseases and Role of Omics and Biomarkers in Health” organized by Department of Zoology, University of Kerala, Thiruvananthapuram, held at the Diamond Jubilee Alumni Auditorium, Govt. Medical College Thiruvananthapuram on 09th -11th March- 2018.
6. Participated in the Three day National workshop on “Equity Initiative: Hands on Training in Quantitative Data Analysis”, organized by the Department of Economics, on 12th –14th March 2018 at Kariavattom Campus, University of Kerala, Thiruvananthapuram.
7. Participated in the One day Seminar on “Nipah Virus Outbreak in Kerala-The Lessons Learned”, organized by Kerala Academy of Sciences (KAS) at Dr. M.R. Das Convention Centre, RGCB, Thiruvananthapuram, on 31st July 2018.
8. Participated in the Three day seminar on “Recent Trends in Therapeutic Approaches for Diabetes Management” held at Seminar Hall, Government College for Women, and Thiruvananthapuram on 10th -12th October 2018.
9. Participated in the Three day seminar on “Recent Trends in Therapeutic Approaches for Diabetes Management” held at Seminar Hall, Government College for Women, and Thiruvananthapuram on 10th -12th October 2018.
10. Participated in the one day workshop on “ DNA barcoding” held at Department of Genomics, NIMS medicity, Neyyattinkara, Trivandrum on 11th -12th April 2023
11. Participated National online seminar on cancer awareness and associated research elements organized by Department of Biotechnology, Govt. Institute of Science Sambhajinagar, held on 7th February 2024
12. Participated in the SCTIMST open day-2024 held at Biomedical wing, SCTIMST, Poojappura on 23rd February 2024

PRESENTATIONS

13. Participated and presented a poster entitled **Antioxidant activity and nutritional quality of seeds of *Cicer arietinum* L. under different processing methods** in the National Seminar on Recent Biochemical Approaches in Therapeutics III (RBAT

III) organized by Department of Biochemistry, University of Kerala on 15-17 February 2017.

14. Participated and presented a paper entitled “**Hypolipidemic effects of *Hibiscus rosa sinensis* L. anthocyanins in streptozotocin induced diabetic rats**” in the seminar on Recent Approaches in Biochemical Research (RABR-2018) organized by Department of Biochemistry, University of Kerala on 28th September 2018.
15. Participated and presented a poster entitled “***Hibiscus rosa sinensis* L. anthocyanins ameliorates oxidative stress in heart of experimentally induced diabetic rats**” in the National seminar on Recent Biochemical Approaches in Therapeutics 2019 (RBAT-V) organized by Department of Biochemistry, University of Kerala, Thiruvananthapuram on 23rd -25th January 2019 (**Second prize**)
16. Participated and presented a paper entitled “***Hibiscus rosa sinensis* L. anthocyanins modulates diabetic dyslipidemia in streptozotocin induced diabetic rats**” in the 31st Kerala Science Congress on 2nd -3rd February 2019 at Fathima Mata National College, Kollam.
17. Participated and presented a paper entitled “***Hibiscus rosa sinensis* L. anthocyanins improves dyslipidemia and modulates expression of genes involved in reverse cholesterol transport high energy diet/low STZ induced diabetic rats**” in the International Seminar on Life Sciences for Sustainable Development: Issues and Challenges from October 3-5,2019 organized by Department of Botany, University College Thiruvananthapuram.
18. Participated and presented a paper entitled “***Hibiscus rosa sinensis* L. anthocyanins affords cardio protection in STZ induced diabetic rats via modulating mitochondrial dysfunction and apoptotic signaling cascade**” in the International seminar on Recent Biochemical Approaches in Therapeutics 2019 (RBAT-VI) organized by Department of Biochemistry, University of Kerala, Thiruvananthapuram on 11th -13th December 2019.
19. Participated and presented a paper entitled “**Ameliorating effect of *Hibiscus rosa sinensis* L. anthocyanins on carbohydrate metabolism in hepatic tissue of high energy diet/low STZ induced diabetic rats**” in the National conference on The Life Science Ecosystem: Challenges and Opportunities in the pandemic (AIAM-2021) held from 9th -10th March 2021, organized by School of Life Sciences, University of Kerala, Karyavattom, Thiruvananthapuram
20. Kalpana V S and Mini S. **Antioxidant and Antiapoptotic effect of *Hibiscus rosa sinensis* L. anthocyanins in heart of high energy diet/low STZ induced diabetic rats**” Prof. Dr. A. Hisham Endowment Award-2021 held from 11th September 2021, organized by Kerala Academy of Sciences, Thiruvananthapuram. (Oral

presentation).

21. Kalpana V S and Mini S. ***Hibiscus rosa sinensis* L. anthocyanins modulate hyperglycemia by attenuating hepatic enzymes of carbohydrate metabolism on high energy diet/low STZ- induced diabetic rats.** National webinar on Advances in industrial Biotechnology organized by Dept of Biotechnology, University of Kerala on February 03-04,2022. (Oral presentation).
22. Kalpana V S and Mini S. ***Hibiscus rosa sinensis* L. anthocyanin extract regulates myocardial fibrosis and autophagy in high energy diet/low STZ induced diabetic rats.** Prof. Dr. A. Hisham Endowment Award-2022 held from 29th October 2022, organized by Kerala Academy of Sciences, Thiruvananthapuram. (Oral presentation).

