



Dr. KAVYA P

Assistant Professor- Biological Sciences

Department of Biological Sciences

School of Engineering

Dayananda Sagar University, Bengaluru, Karnataka,
India

Official Email: kavya-bio@dsu.edu.in

Phone/Office: 7306037484

1. ABOUT / PROFESSIONAL PROFILE

Dr. Kavya P is an Assistant Professor of Biological Sciences in the Department of Biological Sciences at Dayananda Sagar University, Harohalli Campus. She holds a Ph.D. degree in Biotechnology from the School of Biosciences and Technology, Vellore Institute of Technology, Vellore. Her area of research is focused on studying the role and pharmacological intervention of medicinal plants, isolated bioactive compounds, and polyherbal formulations in metabolic disorders, including diabetes and hyperlipidemia. She has extensive experience in analysing the therapeutic properties of various herbal extracts and their active components across a wide range of disease models. She has 3 years of experience as a teaching cum research assistant at the Vellore Institute of Technology, Vellore. She has published several peer-reviewed papers in various academic journals indexed in both Scopus and Web of Science. She has received Raman research awards from the Vellore Institute of Technology for first-authored research paper publications. She has also reviewed many articles in different peer-reviewed journals.

2. RESEARCH INTERESTS

- Metabolic disorders including diabetes and hyperlipidemia
- *In vivo* models
- Isolation of bioactive compounds from medicinal plants
- Standardisation of polyherbal formulations
- *In silico* analysis
- Cell culture analysis

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Biotechnology — Vellore Institute of Technology, Vellore, 2026.
- M.Sc. in Biotechnology — Bharathiar University, 2020.
- B.Sc. in Biomedical Sciences — Nitte University, 2018.

4. PROFESSIONAL EXPERIENCE

- Assistant Professor of Biological Sciences - Dayananda Sagar University, 17-08-2026 to till date.
- Teaching cum Research Assistant — Vellore Institute of Technology, 01-03-2021 to 29-02-2024.

5. RESEARCH HIGHLIGHTS

Awards/Recognitions:

- Raman Research Awards by Vellore Institute of Technology for first-authored research paper publications
- Won 2nd prize in paper presentation on the topic “Studies on *in vitro* generated kidney stone and its characterisation” in the 6th International Conference on “Bioscience towards a sustainable future” held at KSG College of Arts and Science, Coimbatore, on 12th February 2020.

Academic/Conference Roles:

Conference presentations:

1. **Kavya P**, Gayathri M. Chemical profiling and evaluation of *in vitro* antidiabetic activity of *Curcuma angustifolia* rhizome. International conference on “Approaches towards affordable clean energy, good health and well being” Organised by the Department of Life Sciences, Garden City University, in association with Karnataka State Bioenergy Development Board. **Bangalore, India, 2023**
2. **Kavya P**, Gayathri M. Phytochemical analysis and *in vitro* antidiabetic studies of *Chlorophytum comosum*. International Conference on “Frontiers of Sustainable Research in Health Care, Food, Agriculture and Environmental Management” Organised by Guru Nanak Centre for Research in association with G.S. Gill Research Institute, Guru Nanak College. **Chennai, India, 2024**
3. **Kavya P**, Rekha P. D. Studies on *in vitro* generated kidney stone and its characterisation. International conference on “Bioscience towards a sustainable future” Organised by KSG College of Arts and Science, **Coimbatore, India, 2020.**

Reviewer/Editorial Activities:

Reviewed articles for the journal “Frontiers in Pharmacology” and “Exploration of Foods and Foodomics”

6. SELECTED PUBLICATIONS (Recent)

1. **Kavya, P.**, and M. Gayathri, “Bioactive fraction isolated from *Curcuma angustifolia* rhizome exerts anti-diabetic effects in vitro, in silico and in vivo by regulating AMPK/PKA signaling pathway,” *Frontiers in Pharmacology*, 16, 1570533, 2025.
2. **Kavya, P.**, R. C. Theijeswini, and M. Gayathri, “Phytochemical analysis, identification of bioactive compounds using GC-MS, in vitro and in silico hypoglycemic potential, in vitro antioxidant potential, and in silico ADME analysis of *Chlorophytum comosum* root and leaf,” *Frontiers in Chemistry*, 12, 1458505, 2024.
3. **Kavya, P.**, Krishnamurthy, S., Bhav, S., Telugu, S. and Gayathri, M, “Standardisation, chemical characterisation, and evaluation of antihyperglycemic and antioxidant activity of an edible polyherbal formulation: An in vitro and in silico study,” *Journal of Molecular Structure*, 1344, 142925, 2025.
4. Gayathri, G. A., **P. Kavya**, D. Ashwini, Eshika Chakraborty, Idris Adewale Ahmed, and Gayathri Mahalingam, “Vitexin isolated from *Acanthus ilicifolius* L. leaf enhances GLUT-4 translocation in experimental diabetic rats,” *Aquaculture International*, 31, 3159-3187, 2023.
5. **Kavya, P.**, and M. Gayathri, “Phytochemical Composition and Inhibitory Effects of *Curcuma Angustifolia* Leaves Extracts Against α -Amylase and α -Glucosidase Enzymes Associated with Hyperglycaemia: In Vitro and In Silico Analysis,” *Chemistry & Biodiversity*, 22, e00173, 2025.
6. **Kavya, P.**, and M. Gayathri, “Phytochemical Profiling and Assessment of Antidiabetic Activity of *Curcuma Angustifolia* Rhizome Methanolic Extract: An In Vitro and In Silico Analysis.” *Chemistry &*

Biodiversity, 21, e202301788, 2024.

7. ACADEMIC PROFILES

- Google Scholar:

<https://scholar.google.com/citations?user=wNHK0moAAAAJ&hl=en&citsig=AKLELW9SvT4fqdebRfJkb0I5uu2D>

- ORCID: 0000-0001-6953-3540; <https://orcid.org/0000-0001-6953-3540>

- Scopus: 58672120400; <https://www.scopus.com/authid/detail.uri?authorId=58672120400>

- ResearchGate: <https://www.researchgate.net/profile/Kavya-Paini>

- Web of Science: OGQ-8984-2025; <https://www.webofscience.com/wos/author/record/OGQ-8984-2025>

8. CONTACT

Department of Humanities and Biological Sciences

School of Engineering

Dayananda Sagar University

Bengaluru, Karnataka, India – 562112

Official Email: kavya-bio@dsu.edu.in