

Dr. Devi V. J.

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Present position	Assistant Professor in Biochemistry on Contract
Awards	<ul style="list-style-type: none">• Best Oral Presentation award in the Swadeshi Science Congress organized by CSIR- National Institute of Interdisciplinary Sciences and Technology (CSIR – NIIST).• Best Oral presentation award in the International seminar on Recent Biochemical approaches in Therapeutics (RBAT IV) organized by Department of Biochemistry, University of kerala and SBC(I), Kerala Chapter
Qualifications	<ul style="list-style-type: none">• B.Sc Biochemistry and Industrial Microbiology (University of Kerala)• M Sc. Biochemistry (University of Kerala),• Ph.D Biochemistry (University of kerala)• JRF/NET (UGC)• GATE Lifesciences• KSCSTE Research Fellowship
Areas of Interest	Animal Physiology, Molecular Biology, Cell Biology, Metabolism, Clinical Biochemistry, Immunology
Thrust area of Research	Inflammation, Cancer Biology
Examinership	External examiner for the valuation of answer scripts and conducting practical examinations of UG Examination in Biochemistry at University of Kerala.
Experience	3 years
Membership in Academic bodies	Life member of Society of Biological Chemists (SBC)
Presentations	<ul style="list-style-type: none">• Participated and presented a paper entitled “ Investigation of

***Mollugo cerviana* extracts for phytochemicals, toxicity and antioxidant potential in LPS induced acute inflammation**” in the National seminar on “Safety and efficacy of Herbomineral formulations of Siddha (SEHFS 2014)” organized by Siddha Regional Research Institute, Thiruvananthapuram on 24th and 25th January 2014.

- Participated and presented a paper entitled “**Mitigation of LPS induced acute inflammation by active extracts of *Mollugo cerviana***” at the Society of biological chemists annual meeting 2015 organized by Centre for Cellular and Molecular Biology (CCMB), Hyderabad from 27th to 30th November 2015.
- Participated and presented a paper entitled “**Evaluation of *Mollugo cerviana* Extracts in Mitigation of LPS-induced Acute Inflammation**” at the Multidisciplinary Annual Research Conference (MARC), at University of Kerala, Kariavattom campus on 16th and 17th December, 2015.
- Participated and presented a paper entitled “**Investigations on methanolic extract of *Mollugo cerviana* for phytochemicals and antioxidant activity in LPS induced oxidative stress**” at the 103rd Indian Science Congress organized by the Indian Science Congress Association held at University of Mysore from January 3 to 7, 2016.
- Participated and presented a paper entitled “**Investigation of antioxidant/nutraceutical potential of *Plectranthus rotundifolius* tubers**” at the Society of Free Radical Research Conference, organized by Bhabha Atomic Research Centre, Mumbai from 9th to 12th January, 2017.
- Participated and presented a paper entitled “**Investigations on the role of adenosine receptors in the M2b alternate activation of macrophages**” in the International conference on Traditional and Alternative Medicine held at St. Thomas College Pala, on 18th and 19th September 2017.
- Participated and presented a paper entitled “**Induction of Alternate Macrophage activation by Adenosine Receptor Signalling**” in the 10th TCS Annual meeting on “Applications of Flow cytometry in Health and Disease” organized by The cytometry Society at Sree Chitra Tirunal Institute for Medical Sciences and Technology on 28-29 October 2017.

- Participated and presented a paper entitled “**Activation of adenosine receptors inhibit classical activation and promote alternate activation of macrophages**” in the 86th conference of Society of Biological Chemists organized by School of Life Sciences, Jawaharlal Nehru University on 16 – 19 November 2017
- Participated and delivered an oral presentation on the paper entitled “**Antiinflammatory potential of adenosine receptor signalling by altering the macrophage activation programme**” in the International seminar on Recent Biochemical approaches in Therapeutics (RBAT IV) held on 23rd- 25th January 2018, organized by Department of Biochemistry, University of Kerala and SBC(I), Kerala Chapter.
- Participated and delivered an oral presentation on the paper entitled “**Nutritional evaluation of *Plectrathus rotundifolius* tubers**” in the three day national seminar on Insights into the interdisciplinary perspectives of Chemical and Biosciences held on 26th to 28th February 2018 organized by Govt. Arts college, Trivandrum.
- Participated and delivered an oral presentation on the paper entitled “**Antidiabetic activity of *Artocarpus hirsutus* and *Artocarpus heterophyllus* seed kernel methanolic extracts in Streptozotocin induced diabetic rats**” in the Swadeshi Science Congress held on 7th to 9th November 2018 organized by CSIR- National Institute of Interdisciplinary Sciences and Technology (CSIR – NIIST), Trivandrum.
- Participated and presented a paper entitled ‘**Adenosine receptor signalling exerts antiinflammatory activity by altering the macrophage activation programme**’ in the 8th annual meeting of Indian Academy of Biological Sciences organized by CSIR NIIST, Trivandrum from 25 – 27 February 2019.

Publications

- Devi, V. J., Radhika, A., & Biju, P. G. (2023). Adenosine receptor activation promotes macrophage class switching from LPS-induced acute inflammatory M1 to anti-inflammatory M2 phenotype. *Immunobiology*, 228(3), 152362.

- Kunjumon, Renju; Viswanathan, Gayathri; Jayasree, Devi; Biju, Prabath; Prakash, Prabha; Sasidharan, Baby; Baby, Sabulal. (2020). Madecassoside encapsulated in alginate chitosan nanoparticles exerts anti-excitotoxicity effects in pilocarpine-induced seizure. *j.phyplu*, 100004.
- Nair, R. V. R., Jayasree, D. V., Biju, P. G., & Baby, S. (2020). Antiinflammatory and anticancer activities of erythrodiol-3-acetate and 2,4-di-tertbutylphenol isolated from *Humboldtia unijuga*. *Natural product research*, 34(16), 2319–2322.
- Kunjumon Renju; Viswanathan, Gayathri; Jayasree Devi Velayudhan; Biju Prabath Gopalakrishnan; Prakash, Prabha; Sasidharan, Baby Chakrapani Pulikkaparambil; Baby, Sabulal (2022). Anti-excitotoxicity and neuroprotective action of asiaticoside encapsulated polymeric nanoparticles in pilocarpine rodent seizure model. *Canadian Journal of Chemistry*
- S. Vidya, K. Priya, Devi Velayudhan Jayasree, Ani Deepthi & Prabath G. Biju (2019). Synthesis of heterocycle appended spiro(oxindole-3,2'-pyrrolidine) derivatives from heterocyclic ylidenes and azomethineylide through 1,3-dipolar cycloaddition reactions, *Synthetic Communications*, 49:12, 1592-1602
- Devi V J, Aswathy A V and Biju P G (2018). Nutritional evaluation of *Plectranthus rotundifolius* tubers, *Trends in Biosciences*, 11(7): 1048 - 53

Technical skills

- Proficient in performing ELISA assays, including sample preparation, reagent handling, and data analysis for accurate quantification of target analytes.
- Skilled in conducting RT-PCR, including RNA extraction, cDNA synthesis, primer design, and amplification analysis for precise gene expression profiling.
- Experienced in Western blotting techniques, including protein extraction, SDS-PAGE, membrane transfer, antibody probing, and signal detection for protein expression analysis.
- Proficient in fluorescence microscopy, including sample

staining, image acquisition, and analysis for visualization of cellular structures and protein localization.

- Experienced in flow cytometry, including sample preparation, multicolor staining, instrument calibration, data acquisition, and analysis for cell population characterization.
- Skilled in statistical analysis for biological research, utilizing tools like GraphPad Prism, R, and SPSS to interpret experimental data and ensure robust, reproducible results.