



Centre for Research & Development

Research Supervisor (Guide) Profiles

Discipline of Supervision: **Biotechnology**



Dr. Arun Kumar S

Associate Professor
Department of Life Sciences
School of Biological and Forensic Sciences

Areas of Specialisation:

Molecular Cytogenetics, Vector Biology, Genotoxicology,
Phylogenetics, Nano Science

Dr. Arun Kumar S is an Associate Professor in the Department of Life Sciences, School of Biological and Forensic Sciences, at Kristu Jayanti (Deemed to be University), Bengaluru. He earned his Ph.D. in Applied Genetics from Bangalore University, supported by the UGC–Rajiv Gandhi National Fellowship. With over 18 years of academic and research experience, He specializes in molecular cytogenetics, arachnology, phylogenetics, toxicology, and nanoparticle research. He has published more than 11 research papers in reputed national and international journals and has deposited 32 DNA sequences in NCBI. His ongoing research focuses on nanoparticle synthesis with potential biomedical applications, and he has successfully guided numerous postgraduate and undergraduate projects in genetics and environmental toxicology. Beyond research, He has actively contributed to the academic community by organizing international conferences, chairing scientific sessions, and serving on academic boards and examination committees of leading universities. He is also deeply involved in training programs and workshops on cytogenetics and molecular biology techniques. His scholarly work integrates biotechnology-based approaches to advance cytogenetic, toxicological, and biomedical research, fostering innovation and mentoring the next generation of life science researchers.

Selected Publications:

1. **Arunkumar, S.**, Jayaprakash, Ashok, D., Jude, A. L. C., and Hariprasad, T. P. N. (2025). Karyotype and Chromosome Characterization of *Hersilia savignyi* (Araneae: Hersiliidae). *Cytology and Genetics*, 59(3), 321–327. <https://doi.org/10.3103/s0095452725030028>
2. Tavarekere Venkataravanappa, **Kumar, S. A.**, Raavi, V., Balakrishna, S., Kothegala Chendrashekaraiiah, P., Prabhakara Gowda, S., Dhayalan, A., ... Surendranath, A. R. (2025). Role of the TLR4 pathway in the development of chronic suppurative otitis media. *Human Gene*, 45, 201433. <https://doi.org/10.1016/j.humgen.2025.201433>
3. **Kumar, S. A.**, Venu, G., Jayaprakash, G., and Venkatachalaiah, G. (2016). Studies on chromosomal characteristics of *Ctenus indicus* (Gravely 1931) (Araneae: Ctenidae). *The Nucleus*, 60(1), 17–23. <https://doi.org/10.1007/s13237-016-0191-2>