

Dr. Kureeckal V Ramesh

Professor and Head, Dept of Biotech - School of Sciences, Block-I,
J C Road, Bengaluru



Specialization

Agricultural Microbiology and Bioinformatics

Education

- 2004 - PhD (Agricultural Microbiology), University of Agricultural Sciences, Bangalore

Work Experience

- April 2022- till date: ; Professor and Head, JAIN (Deemed-to-be University), Bengaluru
- Dec 2021 – April 2022; Professor and Coordinator, JAIN (Deemed-to-be University), Bengaluru
- 2009 – 2021; Professor, JAIN (Deemed-to-be University), Bengaluru
- 2005 – 2009; Lecturer, CPGS, Sri Bhagawan Mahaveer Jain College, Bengaluru
- 2003 – 2005; Technical Consultant, Global Enterprise Infotech Solutions, Bengaluru
- 1999 - 2003 – Lecturer, Shesadripuram First Grade College, Bengaluru

Key Areas of Research

Computational Biology

- 3D modelling of proteins from microbial sources (TB bacteria, SARS-CoV2 , etc)
- Docking of novel ligands- phytochemical source on the modelled proteins
- *In silico* studies on the structural and functional diversity of behavioral gene and gene products from *Apis mellifera* and other social organisms

Publications

1. Domain analysis of fatty acid synthase protein (NP_217040) from *Mycobacterium tuberculosis* H37Rv – A bioinformatics study. **Ramesh K V**, Kaushiki Wagle and Sudha Deshmukh, *Journal of Biomolecular and Structural Dynamics*, 24, 393-412 (2007) **Impact factor: 3.123.**
2. Modeling the interactions of herbal drugs to β -ketoacyl ACP synthase of *Mycobacterium tuberculosis* H37Rv **Ramesh K V**, Mitali P, Mekhala K, Mrinalini K, Kaushiki Wagle and Sudha Deshmukh, *Journal of Biomolecular and Structural Dynamics*, 25: 481-494 (2008) **Impact factor: 3.123.**

3. Molecular modelling of 2-nitropropane dioxygenase domain of *Mycobacterium H37Rv* and docking of herbal ligands **K V Ramesh**, B N Akhila and Sudha Deshmukh *Indian J Biochem Biophys* 48: 164-169 (2011) **Impact factor:1.077.**
4. *In silico* docking of herbal based 'epigallocatechin' onto homology modeled keto-acyl –ACP reductase domain of FAS protein from *Mycobacterium tuberculosis H37Rv* **K V Ramesh**, Shiny Chandy, Deepika Pai and Sudha Deshmukh *Indian J Biotechnology* 11: 257-266 (2012) **Impact factor:0.510**
5. Response of aerobic rice to *Piriformospora indica* Joy Das, **Ramesh K V**, Maithri U, Mutangana D and Suresh C K. *Indian J of Experimental Biology* 52: 237-254, (2014) **Impact factor:0.753**
6. Modeling the interactions between MC2R and ACTH models from humans Mutangana D and **K V Ramesh** *Journal of Biomolecular Structure and Dynamics* 33 (4): 770-788 (2015), **Impact factor: 3.123**
7. MD simulation of homology modelled 2 nitropropane dioxygenase from *Mycobacterium tuberculosis* **Ramesh K V**, Meenal Solanki, Shruti Sharma and Sudha Deshmukh *Journal of Scientific Industrial Research* 11 (4): (277-280) (2015) **Impact factor:0.50**
8. Synthesis, anti-microbial and anti-cancer evaluation study of 3-(3-benzofuranyl)-coumarin derivatives, Bahubali M Chougala, Samundeeshwari L Shastri, Megharaju Holiyachi, Lokesh A Shastri, Sunil S More and **K V Ramesh**, *Med Chem Res*, 24 (12) 2015, **Impact factor: 1.436**
9. Potent antitumor activity of (-) epigallocatechin gallate: Indications from *in vitro*, *in vivo* and *in silico* studies, Samrendra N..... **Ramesh Kureeckal Vasudev et al** *Curr. Science* 110: 187-195(2016), **Impact factor: 0.850**
10. Epigallocatechin Gallate, a Green Tea Polyphenol Inhibits *Mycobacterium smegmatis*: In silico and In vitro Studies S. Narayanan and K. V. Ramesh *Indian J of Pharmaceutical Sciences* 79 (4): 625 – 632 (2017) **Impact factor: 0.66**
11. Evolutionary history and genetic diversity study of heat-shock protein 60 of *Rhizophagus irregularis* Dipti Mothay and K. V. Ramesh *Journal of Evolution* 98 (48): 2019 <https://doi.org/10.1007/s12041-019-1096-z> Impact factor: 0.825
12. Binding site analysis of potential protease inhibitors of COVID-19 using AutoDock, Dipti Mothay and **K. V. Ramesh**, *VirusDisease* 31(2):194-199 2020 , **Citescore (Impact factor): 0.99.** (SCOPUS indexed)
13. Molecular dynamics simulation of homology modeled glomalin related soil protein (*Rhizophagus irregularis*) complexed with soil organic matter model, Dipti Mothay, **Kureeckal Vasudev Ramesh**, *Biologia*, 76(2): 699-709 2020, **Impact Factor: 0.811**
14. Computational studies of mycorrhizal protein: GiHsp60 and its interaction with soil organic matter Dipti Mothay and **K.V. Ramesh**, *Curr Science*, 2021 (120), 389 – 397, **Impact Factor: 0.850**