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**Dr. UDHAYA LAVINYA B**

Assistant Professor,  
Department of Biomedical Sciences,  
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PhD slots available: 3

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**Personal profile**

I am an Assistant Professor at the Department of Biomedical Sciences and my research focus is on exploring therapeutic potential of phytochemicals and their drug targets through *in silico* and *in vitro* approach. I have worked on *in vitro* and *in vivo* models of metabolic diseases such as diabetes and cancer. Drug-induced liver toxicity has been my thrust area and I have worked on rat models for hepatotoxicity exploring the toxicity ameliorating effects of various natural and synthetic antioxidants. My current research interest is to study the significance of genetic variants of critical genes and their role in the disease progression and drug resistance in cancer.

**Research Interests:**

- ❖ Hepatotoxicity
- ❖ Phytochemical screening
- ❖ Animal Biotechnology (Rat model)
- ❖ Molecular docking analysis
- ❖ Prognostic marker identification in cancer

**The team:****Ph.D Scholar:**

Ms. K. Bhavyaa, Research scholar, Screening and Identification of a Prognostic Biomarker for colorectal cancer

**Chancellor's Summer Research Fellow:**

1. V. Saiganesh - Repurposing hormone-modulating drugs for Non-Alcoholic Fatty Liver Disease
2. Katharine A Sharon - Estimation of antibiotic residues in hen's eggs
3. Latha Selvakumar - Estimation of antibiotic residues in hen's eggs

### **Selected publications:**

1. Paul D. Meshach, Chandrasekhar Gopalakrishnan, Chandra Sekar Ponnusamy, **Udhaya Lavinya**, Rajasekaran Ramalingam. Therapeutic Role of DGJ (1-deoxygalactonojirimycin) in Fabry Disease: Theoretical Insights. *ChemistrySelect*, 2023, 8(13): e202204457. <https://doi.org/10.1002/slct.202204457>
2. D. Meshach Paul, G. Chandrasekhar, E. Srinivasan, P. Chandrasekar, **B. Udhaya Lavinya** and R. Rajasekaran. LSDDDB: Lysosomal Storage Disorder DataBase for lysosomal proteins and their single amino acid substitutions. *Journal of Computational Biophysics and Chemistry*, 2023, 22(5): 589-603. <https://doi.org/10.1142/S273741652350028X>
3. **Lavinya B Udhaya**, Aline Ubrewer Ruteru, K Ram Kumar, N Sangeetha, P Manisha, Sabina Evan Prince. Supplementation with  $\beta$ -carotene aids minimize inflammation in monosodium urate crystal-induced gouty arthritis in Wistar albino rats. *Brazilian Journal of Pharmaceutical Sciences*, 2022, 58. <https://doi.org/10.1590/s2175-97902020000118690>
4. JS Peter, M Shalini, R Giridharan, KS Basha, **UB Lavinya**, S Evan Prince. Administration of coenzyme Q10 to a diabetic rat model: changes in biochemical, antioxidant, and histopathological indicators. *International Journal of Diabetes in Developing Countries*, 2020, 40, 143-152. <https://doi.org/10.1007/s13410-019-00752-z>
5. Sabina Evan Prince, Sherry Joseph Martin, **B. Udhaya Lavinya**, Kavitha Selvanathan, A. Geetha. Anti-Tuberculosis Drug-Induced Oxidative Stress in Kidneys: Role of Brahmi as an Antioxidant Supplement. *Pharmacognosy Magazine*, 2019, 15 (62), 512-516. <https://phcog.com/article/view/2019/15/62/12-16>