Prof. Hariprasad. G (MD; PhD; MNAMS; MNAScI)

Current Designation and Contact Details	Professor, Department of Biophysics; AIIMS, New Delhi, India Email: dr.hariprasadg@gmail.com Phone: +91-11-26594029 Google Scholar: https://scholar.google.co.in/citations?user=_c0LXmkAAAAJ&hl=en
Research Area	▪ Structure Based Drug Design against drug targets in cancer ▪ Biomarker identification in various clinical phenotypes ▪ Development of Point of care diagnostics in Parkinson's disease and Schizophrenia
Education	▪ 1997 MBBS Karnatak Institute of Medical Sciences, Hubli ▪ 2003 MD All India Institute of Medical Sciences, New Delhi ▪ 2012 PhD All India Institute of Medical Sciences, New Delhi
Positions held	▪ 2022 – Till Date Professor, Department of Biophysics, AIIMS, New Delhi ▪ 2018 – 2022 Additional Professor, Department of Biophysics, AIIMS, New Delhi ▪ 2015 – 2018 Associate Professor, Department of Biophysics, AIIMS, New Delhi ▪ 2012 - 2015 Assistant Professor, Department of Biophysics, AIIMS, New Delhi ▪ 2008 - 2011 Pool Officer, Department of Biophysics, AIIMS, New Delhi

Awards & Honours	▪ 2026 DHR-ICMR International Fellowship, USA ▪ 2026 3rd Prize for Demonstration of Technology at Technology Showcasing, 5th Annual AIIMS Research Day ▪ 2024 AIIMS Endowment Observership, USA ▪ 2016 AIIMS Excellence Research Award ▪ 2016 ICMR International Fellowship, USA
Significant Publications	1. Upadhyay, N., Tripathi, M., Chaddha, R. K., Ramachandran, R., Elavarasi, A., Elangovan, R, **Hariprasad, G***. Tailored pharmacotherapy monitoring in Parkinson's disease and Schizophrenia using a rapid and sensitive α-Synuclein assay. *Clinica Chimica Acta*, (**2025**) 574: 120349. 2. Kizhakkiniyakath SA, Choudhury T, Rajan MV, Rathee S, Meena B, **Hariprasad G***. *In silico* studies to understand the interactions of flavonoid inhibitor with nsp12-RNA dependent RNA polymerase of SARS-CoV-2 and its homologs. *Biochem Biophys Rep*. (**2025**) 42:101975. 3. Rathee S, Rajan MV, Sharma S, **Hariprasad G***. Structural modeling of phosphatidylinositol 3-kinase-γ with novel derivatives of stilbenoids. *Biochem Biophys Rep*. (**2024**) 40:101861. 4. Rajan MV, Sharma V, Upadhyay N, Murali A, Bandyopadhyay S, **Hariprasad G*.** Serum proteomics for the identification of biomarkers to flag predilection of COVID19 patients to various organ morbidities. *Clin Proteomics*. (**2024**) 21(1):61. 5. Sharma V, Singh SB, Bandyopadhyay S, Sikka K, Kakkar A, **Hariprasad G*** Label-based comparative proteomics of oral mucosal tissue to understand progression of precancerous lesions to oral squamous cell carcinoma. *Biochem Biophys Rep*. (2024) 40:101842. 6. Goswami A, Koley T, Rajan MV, Madhuri P, Upadhyay N, Das U, Kumar M, Ethayathulla AS, **Hariprasad G*.** Structural Modelling of Platelet Activating Factor Acetyl Hydrolase in *Leishmania donovani*, *Trypanosoma cruzi*, and *Trypanosoma brucei*: Implications on Therapeutics for Leishmaniasis, Chagas Disease, and Sleeping Sickness. *Infect Drug Resist***.** (**2023**) 16:2117-2128. 7. Upadhyay N, Tripathi M, Chaddha RK, Ramachandran R, Elavarasi A, Elangovan R*, **Hariprasad G*** Development of sensitive magnetic nanoparticle assisted rapid sandwich assay(s-MARSA) to monitor Parkinson's disease and Schizophrenia pharmacotherapy. *Analytical Biochemistry*. (**2023**) 667:115082. 8. Pathania S, Khan MI, Bandyopadhyay S, Singh SS, Rani K, Parashar TR, Jayaram J, Mishra PR, Srivastava A, Mathur S, Hari S, Vanamail P, **Hariprasad G*.** iTRAQ proteomics of sentinel lymph nodes for identification of extracellular matrix proteins to flag metastasis in early breast cancer. *Scientific Reports* (**2022**) 12(1):8625. 9. Koley T, Kumar M, Goswami A, Ethayathulla AS, **Hariprasad G***. Structural modeling of Omicron spike protein and its complex with human ACE-2 receptor: Molecular basis for high transmissibility of the virus. *Biochemical and Biophysics Research Communications*. (**2022**) 592:51-53. 10. Naqvi AAT, Fatima K, Mohammad T, Fatima U, Singh IK, Singh A, Atif SM, **Hariprasad G**, Hasan GM, Hassan MI. Insights into SARS-CoV-2 genome, structure, evolution, pathogenesis

	and therapies: Structural genomics approach. *BBA Molecular Basis of Disease* (**2020**) 1866: 165878 (1500 Citations) 11. Khan MI, **Hariprasad G*.** Structural Modeling of Wild and Mutant Forms of Human Plasma Platelet Activating Factor-Acetyl Hydrolase Enzyme. *J Inflamm Res*. (**2020**) 13:1125-1139. **12.** Gupta AK, Pokhriyal R, Khan MI, Kumar DR, Gupta R, Chadda RK, Ramachanran R, Goyal V, Tripathi M, **Hariprasad. G*.** Cerebrospinal fluid proteomics for identification of α2-macroglobulin as a potential biomarker to monitor pharmacological therapeutic efficacy in dopamine dictated disease states of Parkinson's disease and schizophrenia. *Neuropsychiatric Disease Treatment*. (**2019**) 15:2853-2867 13. Sehrawat U, Pokhriyal R, Gupta AK, Hariprasad R, Khan I, Gupta D, Naru J, Singh SB, Mohanty AK, Vanamail P, Kumar L, Kumar S, **Hariprasad G*.** Comparative proteomic analysis of advanced ovarian cancer tissue to identify potential biomarkers of responders and non-responders to first line chemotherapy of carboplatin and paclitaxel. *Biomarkers in Cancer* **(2016**) 8:43-56 14. **Hariprasad G***, Hariprasad R, Kumar L, Srinivasan A, Kola S, Kaushik A. Apolipoprotein A1 as a potential biomarker in the ascitic fluid for the differentiation of advanced ovarian cancers. *Biomarkers* (**2013**) 18:532-41 15. **Hariprasad G*,** Srinivasan A, Singh R. Structural and phylogenetic basis for the classification of group III phospholipase A_2. *Journal of Molecular Modeling* (**2013**) 19(9):3779-91 **16.** **Hariprasad G***, Kumar M, Kaur P, Singh TP, Kumar RP. Human group III PLA_2 as a drug target: Structural analysis and inhibitor binding studies. *International Journal of Biological Macromolecules* (**2010**) 47: 496-501. **17.** **Hariprasad G*** Rationale for student exposure to pre- and para-medical sciences as part of internship. *Medical Education*(**2008**) 42: 645. 18. **Hariprasad G*** Holistic presentation of the under graduate medical curriculum. *Medical Education* (**2008**) 42: 849.
Online content	**Paper Co-ordinator** and **Content provider for 14 modules as eContent** for the subject **Biophysics** under **e-PG PATHSHALA,** an initiative by Ministry of Human Resources Development-University Grants Commission under National Mission on Education through Information & Technology. (https://youtube.com/playlist?list=PLyfBRcBuCtnA5bcoR875FmCS_8qkT_-FS)
Patent	**sMARSA: A Point of Care Diagnostics for Parkinson's disease and Schizophrenia**
Students Guided	**PhD**: 5 **MD**: 5 **MSc**: 4