

Advertisement for the post of Senior Research Fellow (SRF)

Applications are invited for the post of Senior Research Fellow (SRF) in the research project entitled “**In vitro Evaluation of Antiviral Activity of Unani Drugs and their Green Nanoparticles against Dengue Virus**” that is funded by Central Council for Unani Research (CCRUM), AYUSH, Government of India.

Theme of the proposal: The present treatment strategies for Dengue are more supportive than curative since no specific antiviral drug is available. The demand for plant-based medicines is growing as they are generally considered to be safer, cheaper, non-toxic and less harmful than synthetic drugs. We propose to identify the possible antiviral activity of Unani drugs (Habb-e-Papita, Sharbat Anjbar and Khamira Marwareed) into the *in vitro* system. The drug formulations will be tested for their potential to inhibit the viral replication and cytotoxicity in cell culture. Various colorimetric assays like MTT assay will estimate the cell viability through enzyme mediated biochemical reactions by virtue of diffusion of certain dyes inside the living cells. Further, the drugs with high antiviral activity against DENV will also be used to synthesize the green nanoparticles and will be characterized by using different biophysical techniques. These green nanoparticles will be tested in cell culture for their antiviral potential. The candidates (drugs/green nanoparticles) with inhibitory potential against DENV replication might be used for development of therapeutic agents for treatment of this infection.

Project duration: The duration of the project is upto March 2023. Stipend shall be given as per the CCRUM, AYUSH guidelines. The continuation of the fellow will be subject to the candidate performance which will be evaluated on timely basis.

Qualifications:

- (1) M.Sc. degree in Life Sciences or allied subjects.
- (2) Minimum 2 years of research experience after post-graduation as evidenced from published papers in standard refereed journals.

Preference: The candidate with research experience in the field of cell culture, virus propagation, polymerase chain reaction (PCR), formulation of nanoparticles, biophysical characterization techniques like UV-visible spectroscopy, dynamic light scattering (DLS), etc. will be given preference.

Applications with updated biodata should be sent to sparveen2@jmi.ac.in on or before 12th January 2021. Short listed candidates shall be communicated by email to appear for online interview.

Note: Kindly mention your mobile number and E-mail ID in the biodata.

Dr. Shama Parveen

Principal Investigator

Centre for Interdisciplinary Research in Basic Sciences

Jamia Millia Islamia

New Delhi-110025

Email: sparveen2@jmi.ac.in