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Educational Qualification: **M.Sc. Nanoscience & Nanotechnology**

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Research Abstract:

Around 40 million people are living with HIV worldwide with approximately 2.5 million new infections per year. Targeting the entry of enveloped viruses is a very attractive strategy and will inhibit further infection because the site of action is likely to be extracellular and therefore relatively accessible. In the current scenario, nanoscale materials have emerged as novel antiviral agents due to the myriad possibilities offered by their unique chemical and physical properties. Metal based nanoparticles have mainly been explored for their antimicrobial potential against bacteria, but have also proven to be active against several types of viruses.

I propose to carry out my research work by studying the effect of metal nanoparticles in conjunction with antimetabolite drugs and assess their antiviral properties both, *in-vitro* and *in-vivo*, to ultimately provide an effective form of antiviral therapy against HIV.

Road Ahead:

I look forward to establishing myself as a biotechnologist in an institution of repute after my post-doctoral studies.