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Team	
Team name	HIV Novel Theranostics
Lab	Enzyme Research Laboratory, Department of Biochemistry and Molecular Biology
Organization	Obafemi Awolowo University
Country	Nigeria
<b>Team description :</b> Our team is into development of novel theranostic agents for the management of HIV infections using quantum dots and medicinal plant-derived furin inhibitors. In summary, we are investigating the effect of synthetic compounds (quantum dots) as well as single molecules purified from medicinal plants (which are traditionally used in management of HIV and viral infections), on HIV infected cells. To target viral reservoirs, we will prepare photosensitive, cell penetrating conjugates of the medicinal plants and quantum dots and study their photodynamic therapeutic effect upon irradiation with light in cell line and animal models.	
<b>Lab equipment :</b> Fluorescence plate readers, spectrophotometers, rotary evaporators, freeze dryers, chromatographic materials SEM, tissue culture	

**facilities, basic organic/inorganic chemical laboratory facilities.**

### **Call for proposal**

**Motivation for Responding to the Call : We have already purified some single molecules from some medicinal plants capable of blocking SARS-CoV-2 replication in a concentration-dependent manner. Furthermore, the compounds also show promises as a drug lead and from mechanistic point of view, the molecules should also be capable of blocking HIV replication, which we are yet to carry out because of funding. Funding is needed to continue with this investigation.**

**Partnerships wanted :Partners from France or the Netherlands with biosafety level 3 facilities to carry out the effect of our synthetic and natural inhibitors on HIV viral replication.**