**Abstract**

*Aloe vera*, a traditional medicinal plant belongs to Liliaceae family that has been adored for centuries as a remedy for skin infections & cuts. The active ingredients such as berberine and gallic acid present in *Aloe vera* plays a major role in making the plant a therapeutic agent. In order to increase the efficiency of the plant, ZnO is blended with *Aloe vera* gel. The *Aloe vera* blended ZnO nanoparticles was then encapsulated using Polyvinyl Alcohol (PVA) polymer and were subjected to different characterization techniques. The cell viability of *Aloe vera* blended ZnO nanoparticles in PVA matrix was evaluated and in vitro studies against wound creating pathogens were carried out.