SALIENT ACHIEVEMENTS

1. Development of synthesis methodology of silver nanoparticles using leaves extract of various plants and assessing its anti-microbial agents for use in establishing axenic-cultures for plant tissue culture.
2. Development of pH assisted synthesis protocol zinc oxide nanoparticles and assessing their effect as anti-microbial agents against phyto-pathogens.
3. Development of CMC stabilized hydroxyl-apatite nanoparticles as an effective alternative for phosphorous fertilizer.
4. Development of chitosan nanoparticles synthesis procedure for their utilization in controlling ripening process in tomato and date palm.
5. Development of arabic gum based nanoemulsion formulation for their utilization in reducing spoilage and increasing ripening in tomato.
6. Stabilization of multi walled carbon nanotubes using surfactant and assessing their effect on soybean, tomato and maize seedlings.
7. Development of sulphur nanoparticles synthesis procedure.
8. Green synthesis of silver nanoparticles using neem leaves extract and assessing their effect on *A. solani*.