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EDITORIAL

Significant progress has been made in the field of nanotechnology and biocompatible nanomaterials have been used in biological markers, contrast agents for biological imaging, healthcare products, pharmaceuticals, drug-delivery systems as well as in detection, diagnosis and treatment of various types of diseases. One of the important considerations in the field of nanotechnology is the development of clean, non toxic and eco-friendly approach for the synthesis of nanomaterials over a range of sizes and with good monodispersity. Recently colloidal silver has shown promising applications in the field of bio-labelling, sensors, antimicrobials, catalysis, electronics and other medical implications. Looking into the potential of silver nanoparticles, review article on "Green synthesis of silver nanoparticles" emphasizes various methods of synthesis of silver nanoparticles which can be eco-friendly.

Most of the clinically relevant drug-drug interactions result from the impairment of metabolism by inhibition of cytochrome P450s. These critical reasons have compelled most of the drug metabolism experts to establish various procedures as well as mechanistic studies to elucidate the mechanism of cytochrome P450 inactivation and adopt strategies to avoid P450 inactivation/bioactivation liability. The review article entitled "An insight into the concept and details of mechanism-based inhibition of CYP450" provides a comprehensive analysis of the biochemical basis, mechanistic, kinetic and structural aspects required for P450 inactivation by xenobiotics.

This issue of CRIPS has also compiled significant contribution of 2010 Nobel Prize winner Prof Robert G Edwards for the development of "in vitro fertilization (IVF)" therapy.

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