

(54) Title of the invention : A METHOD FOR MORPHOLOGICAL, ANATOMICAL AND BIOCHEMICAL ANALYSIS OF COSTUS IGNEUS AND SILVER NANOPARTICLE SYNTHESIS

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(57) Abstract :

The present invention relates to the Costus igneus, Nak plant. The invention more particularly relates to the morphological, anatomical and biochemical analysis of costus igneus and synthesis of silver nanoparticle. The commercially and pharmaceutically important herbal plant Costus igneus species is taken as the study material. Plant C. igneus adapted under shade, light and net house condition further its morphological, anatomical and phytochemical changes are studied. Biosynthesized silver nanoparticles exhibit numerous beneficial effects antimicrobial, antioxidant, wound healing and anticancer effect. The different environmental grown leaf extract of green synthesis of AgNPs has been synthesized and characterized. This type of comparative environmental experiment by growing Costus igneus under different growth condition, further analyzing its response to growing condition and green synthesizing AgNPs nanoparticles for commercial and biomedical exploitation. Accompanied Drawing [FIG. 1]

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