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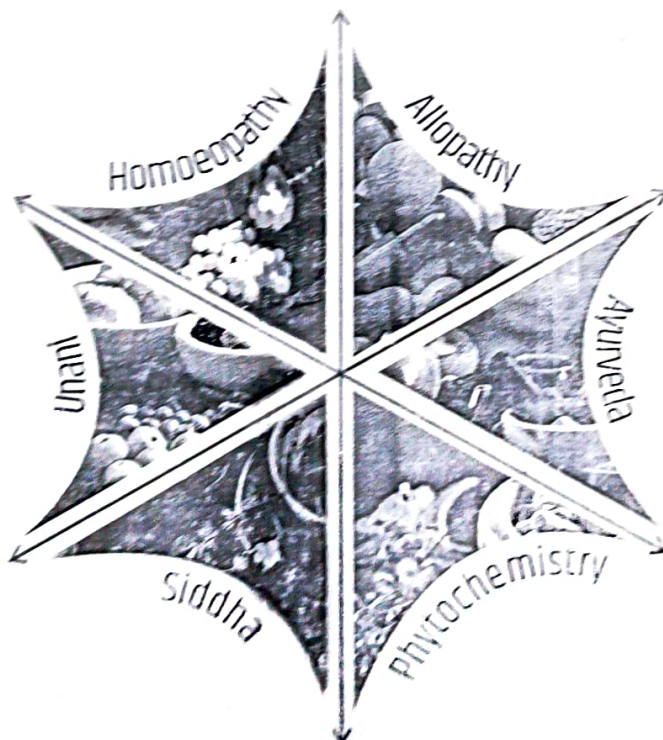
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Souvenir and Abstracts

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PC-34

Studies on Effect of Different Culture Media on Growth and Production of Carotenoids in a Cyanobacterium *Scytonema schmidtii* Gom.

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Abstract

Scytonemaschmidtii species was isolated from the collected soil samples from different locations. Identification was carried out using morphological variation and taxonomical approaches according to Desikachary (1959). The axenic culture of *Scytonemaschmidtii* was obtained in the laboratory. For the biomass production, different culture media were used namely BG-11, Fogg's medium, Allen and Arnon medium, Zarrouk's medium and CFTRI medium. The biomass was harvested by filtration through double layered muslin cloth and dried using air blower. After harvesting, the biomass obtained was subjected to the growth analysis. Carotenoids were estimated by spectrophotometer method according to Gowenlock (1988). Out of the different culture media used, BG-11 medium supported the growth of *Scytonemaschmidtii* species properly as compared to other media used. The carotenoids content was more in *Scytonemaschmidtii* grown in Fogg's medium followed by the BG-11 medium.

Keywords- *Scytonema schmidtii*, Carbohydrates, BG-11, Fogg's medium, Allen and Arnon medium, Zarrouk's medium, CFTRI medium.

PC-35

✓ Pharmacognostical Study of *Ocimum gratissimum* Linn. (Family: Lamiaceae)

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Abstract:

Preliminary phytochemical and physicochemical parameters of *Ocimum gratissimum* L (Family-Lamiaceae) were studied. The macroscopic study showed that the leaves are dark green with aromatic odor and bitter taste. Microscopic character shows that the presence of numerous glandular simple trichomes and anomocytic Stomata. T.S. of Leaves shows a pot shape midrib and thin lamina with uneven lower epidermis attached at the lateral sides. Anatomy of stem and root also studied in detail. Phytochemical parameter viz, ash values, extractive values, were studied. The preliminary phytochemical analysis revealed the presence of alkaloids, tannins, flavonoids, terpenoids, carbohydrates and protein in the extracts.

Keywords: Preliminary, Phytochemical and *Ocimum gratissimum* & Lamiaceae.