

POSTER PRESENTATION ON ENVIRONMENTAL SUSTAINABILITY

PLANT DYES.... THE SUSTAINABLE ALTERNATIVE TO SYNTHETIC DYES.



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ABSTRACT

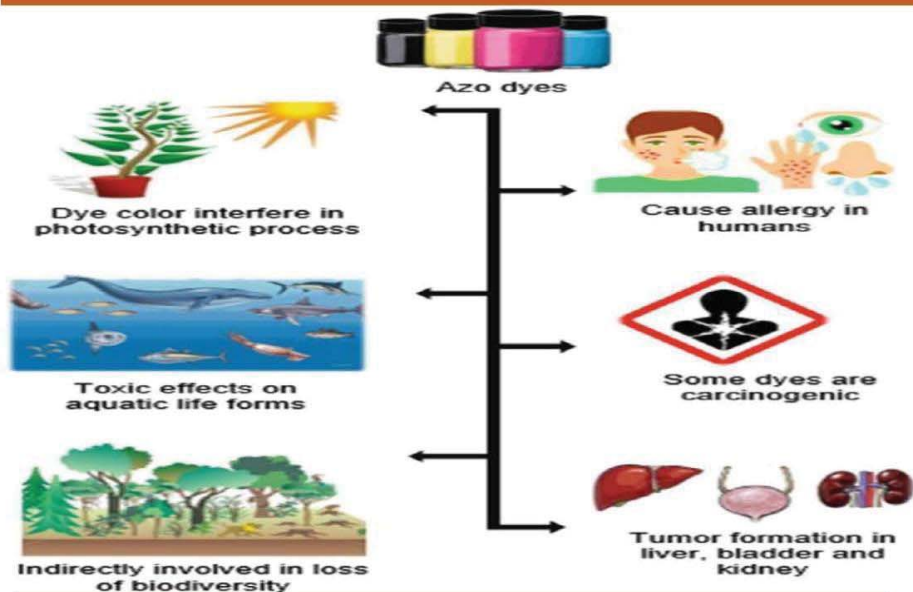
Plant derived-colors are important in human life because they are safe and eco-friendly in nature. Colored complexes that are applied to fiber, paper, food, cosmetics, hair, etc. to give colors. These can be extracted from the roots, fruits, bark, leaves, flowers, etc. Synthetic colorants have been quizzed in the past years for their safekeeping, leading to a decline in the number of permitted colorants. Hence, environmental issues in the production and application of synthetic dyes have revived consumer interest in natural dyes.

Key words - Natural dye, Synthetic dyes, environmental issues.

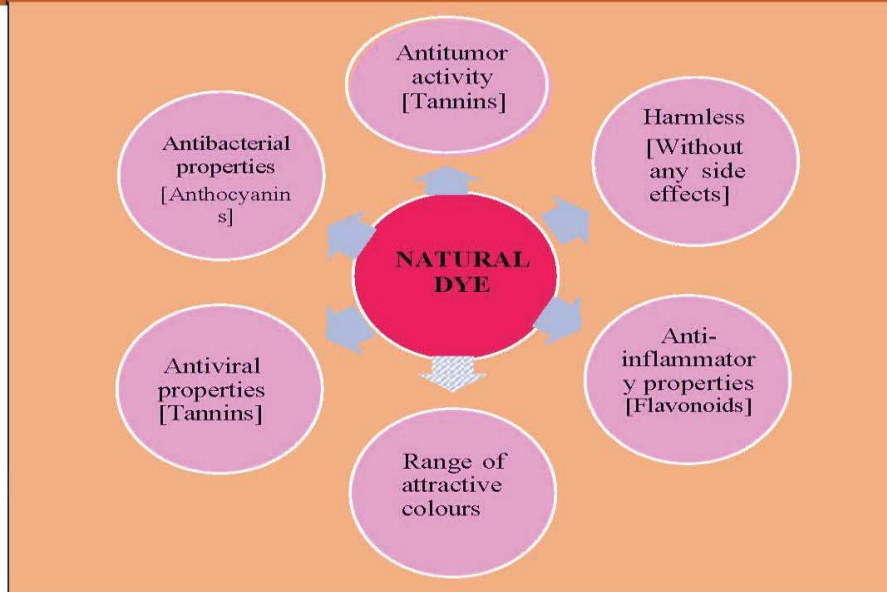
INTRODUCTION

Plant derived-colors are important in human life because they are safe and eco-friendly in nature. The call for natural dyes has been increased today worldwide due to alertness about their valuable properties. Textiles colored with natural dyes are preferred by environmentally conscious consumers. Various research efforts have been undertaken to address the natural dyes in view of the tremendous environmental advantage they offer. Proper documentation, cultivation and conservation should be done for these natural dye-yielding plants.

IMPACTS OF SYNTHETIC DYES TO ENVIRONMENT



SIGNIFICANCE OF NATURAL PIGMENTS



SOME EXAMPLES OF PLANTS WHOSE PIGMENTS CAN BE UTILISED AS DYE.

Sr.No.	Plant Name	Plant Part	Pigment	Colour
1.	<i>Daucus carota</i>	Root	Carotenoid	Orange red
2.	<i>Quercus</i>	Stem	Tannin	Yellowish brown
3.	<i>Carthamus tinctorius</i>	Flower	Uranidin	Yellow
4.	<i>Lycopersicon esculentum</i>	Fruit	Lycopene	Orange

CONCLUSION

Natural plant dyes are appealing for the present trend of sustainability in various industries as they are safe and eco-friendly in nature. It is difficult to implement plant dyes for a large production since of their comparative low yield, and expensive labor costs. But still, the call for natural dyes has been increased worldwide, As civilization becomes attentive towards the toxicity caused by synthetic dyes for both the environment and humans.

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