

## Acces PDF Bacterial Pigments And Their Applications

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## **Bacterial Pigments And Their Applications**

Bacterial pigments and their applications

1. Introduction. The new found awareness in human safety and environmental conservation has kindled fresh enthusiasm for... 2. Bacterial pigment production technologies.

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Traditionally, strain improvement was achieved mainly by multiple rounds... 3. Economics ...

**Bacterial pigments and their applications - ScienceDirect**  
alternative to synthetic pigments,  
bacterial pigments due to their better  
biodegradability and higher compatibility

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with the environment, offer promising avenues for various applications. The industry is now able to produce some bacterial pigments for applications in food, pharmaceuticals, cosmetics and textiles.

## **Bacterial pigments and their applications**

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(PDF) Bacterial pigments and their applications | Venil CK - Academia.edu  
Natural pigments sourced from ores, insects, plants and animals were the colorants used since prehistoric period. Synthetic dyes which took the place of natural pigments in the middle of 19th century still rule the field to the maximum extent in

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## **(PDF) Bacterial pigments and their applications | Venil CK ...**

Many of these microorganisms are able to synthesize pigments, which contribute to face the adverse conditions (Dieser et al. 2010) and have biotechnological applications due to their antioxidant,...



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As an alternative to synthetic pigments, bacterial pigments due to their better biodegradability and higher compatibility with the environment, offer promising avenues for various applications. The industry is now able to produce some bacterial pigments for applications in

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food, pharmaceuticals, cosmetics and textiles.

## **Bacterial pigments and their applications - AGRIS**

Pigments produced by bacteria are of traditional use in oriental countries and have been a subject of intense research in the present decades because of its

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potential for applications. Bacterial pigments offer the following benefits and advantages as follows: Increasingly attractive to science because of broad ranging activities.

## **Bacterial pigments and its significance - MedCrave online**

Bacterial pigments with fluorescence are

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used in laboratories to label antibodies and also indicate the progress of specific reactions. A key example of this is phycoerythrin, an accessory pigment to chlorophyll in photosynthetic bacteria.

## **Industrial Applications of Bacterial Pigments - microbewiki**

Generally, the bacterial pigments are

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safe for human use and therefore have a wide range of applications in pharmaceutical, textile, cosmetics and food industries. Therapeutic nature of the bacterial pigments is revealed because of their antimicrobial, anticancer, cytotoxic and remarkable antioxidant properties.

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## **Therapeutic applications of bacterial pigments: a review ...**

Bacterial and fungal pigments have extensive applications (Table 1) and have an enormous advantage over plant pigments, including easy and rapid growth in low cost medium, easy processing, and growth that is independent of weather conditions

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(Manikprabhu and Lingappa, 2013).

TABLE 1 Fungal and bacterial pigments and their applications.

## **Frontiers | Fungal and Bacterial Pigments: Secondary ...**

These microbial pigments have broad area of application, mainly in food industries, pharmaceutical industries

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and textile industries. Food grade pigments such as  $\beta$ -carotene, Arpink Red, Riboflavin lycopene and Monascus pigments are used in food industry.

## **microbial pigments: production and their applications in ...**

Pigments produced by bacteria are of traditional use in oriental countries and



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have been a subject of intense research in the present decades because of its potential for applications. Bacterial pigments offer the following benefits and advantages as follows: a. Increasingly attractive to science because of broad ranging activities.

## **Bacterial pigments and its**

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## **significance**

Bacterial pigments have various applications in current scenario. Pigmented bacteria otherwise called as chromo bacteria, mostly aerobic producethe pigments. Our present study is aimed at isolating...

## **(PDF) Production and Extraction of**

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## **Bacterial Pigments from ...**

Microbial sources of natural color.

Microorganisms are the most versatile tools in biotechnology to produce variety of molecules including enzymes, antibiotics, organic acids and pigments. Recent studies have shown that microorganisms are a promising source for natural colors.

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## **Microbial pigments as natural color sources: current ...**

Bacterial pigments and their applications

S.No. Bacteria Pigment Application 1

Micromonospora lupine Anthraquinone

Antitumor agent 2 Streptomyces sp.

Carotenoid Food-grade pigment 3

Chromobacterium Violacein Anti-tumor,

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anti-microbial, and anti-parasitic agent

4 Chromobacterium sp. NIIST (MTCC

5522) Violacein Antifungal agent 5

Hymenobacter sp. and

Chryseobacterium sp. Carotenoid Photosensitizers in dye sensitized solar cells 6

Streptomyces glaucescens NEAE-H

Melanin Anti-cancer agent and ...

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## **Wide spectrum applications of Bacterial and Fungal pigments**

Bacterial pigments are very useful in heavy metal and antibiotic resistance, protection from phagocytosis, radiation, help in survival and also have many industrial applications...

## **Colorful Bacteria - Biotech Articles**

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Bacterial pigments are also one of the emerging fields of research since it offers promising opportunities for different applications. Besides its use as safe coloring agents in the cosmetic and food industry, bacterial pigments also possess biological properties such as antimicrobial, antiviral, antioxidant and anticancer activities.

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## **Bacterial Pigments: The Bioactivities and as an ...**

Microbial cells accumulate pigments under certain culture conditions, which have very important industrial applications. Microorganisms can serve as sources of carotenoids, the most widespread group of naturally occurring



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pigments.

## **Colorful World of Microbes: Carotenoids and Their Applications**

Apart from application in agriculture practices, cosmetics, textile, food and paper industries, bacterial pigments have additional biological activities e.g., anti-tumor, anti-fungal, anti-bacterial,

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immunosuppressive anti-viral, and many more which make them a potential candidate for pharmaceutical industry.

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