KASTURBA GANDHI DEGREE & PG COLLEGE FOR WOMEN DEPARTMENT OF MICROBIOLOGY

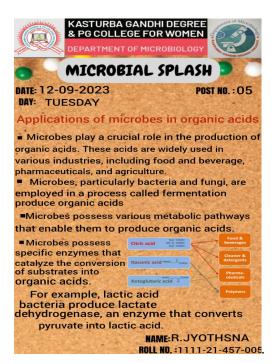
MICROBIAL SPLASH Uploaded by 3rd year Students















KASTURBA GANDHI DEGREE & PG COLLEGE FOR WOMEN

DEPARTMENT OF MICROBIOLOGY

DATE: 26-09-2023
NAY: TUESDAY

MICRO

MICROBIAL SPLASH POST NO. 7

◆ 3D printing is being used to create custom microfluidic devices and structures for studying microbes and their environments.

◆ 3D printing of functional living materials by embedding programed Escherichia coli cells and nonfibers into microbial ink,which can sequester toxic moieties,release biologics,and regulate it's own cell growth through chemical induction

Agents

From the control of the cont

NAME: SAMPATH.MAHESHWARI ROLL NO.: 1111-21-457-007 YEAR: MZC-3RD YEAR



DAY:

KASTURBA GANDHI DEGREE & PG COLLEGE FOR WOMEN

DEPARTMENT OF MICROBIOLOGY



03-10-2023

TUESDAY

MICROBIAL SPLASH

POST NO. 8

PROBIOTICS- THE MAGICAL THERAPEUTICS

-TO IMPROVE MEMORY Eating a probiotic may help prevent the decline in memory that might come with ageing. Researchers discovered that probiotic Lactobacillus rhamnosus GG (LGG) treatment for three months improved the cognitive scores of study participants with mild cognitive impairment. Changes in their gut microbiota were also linked to this improvement in cognition. Modifying the gut microbiome through probiotics could be a strategy to improve cognitive performance, particularly in individuals with mild cognitive impairment.

-TO DETOXIFY METALS IN HUMAN DIET

Human body is constantly accumulated with toxic metals that come through the diet. .Methylmercury, a neurotoxin is particularly high in communities reliant on fish based diets. A novel probiotic was developed by inserting the gene from Bacillus megaterium

bacteria, which is highly resistant to methyl mercury into Lacticaseibacillus. This

probiotic detoxifies the mercury in stomach.

NAME: SEERA KEERTHI ROLL NO.: 1111-21-457-008

YEAR: MZC-3RD YEAR



KASTURBA GANDHI DEGREE & PG COLLEGE FOR WOMEN

DEPARTMENT OF MICROBIOLOGY



DAY: TUESDAY

DATE: 10/10/23 MICROBIAL SPLASH POST NO.9

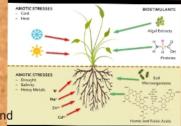
BIOSTIMULANTS

Biostimulants: Microbes in biostimulant products promote plant growth, improve stress tolerance, and enhance nutrient uptake.

Biostimulants contain compounds like humic acids or fulvic acids, which can chelate or complex with essential nutrients, making them more available for plant uptake. This improves the plant's ability to absorb and utilize nutrients.

Microbial Activity: Some biostimulants contain beneficial microorganisms like mycorrhizal fungi or rhizobacteria. These microbes form symbiotic relationships with plants, enhancing nutrient uptake and protecting plants from pathogens.

Microbes such as Mycorrhizal Fungi, Bacillus subtilis, Trichoderma spp, Lactic Acid Bacteria, etc.. ROLL NO.:



NAME:.

V.OMSHANTHI 111121457009

YEAR:. 3rd yr