

ISSUE FEBRUARY 2024

GENOMEDEN

Fostering interdisciplinary knowledge sharing

COVER STORY

Breaking Barriers in Cancer

Mestastop: A Novel Venture
To Stop Cancer Spreading
with

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CONTENTS



PAGE 1

Researchers Discover the Weak Points of the Protein That Causes One in 10 Cancers

PAGE 2

Revolutionizing dental implants: Harnessing the power of genetics for stronger, faster bone regeneration

PAGE 4

Our Service Digital Marketing Agency

PAGE 5

The science behind yellow hue of the urine

PAGE 6

Citation skyrocket

PAGE 7

Course update
How to publish a scientific article

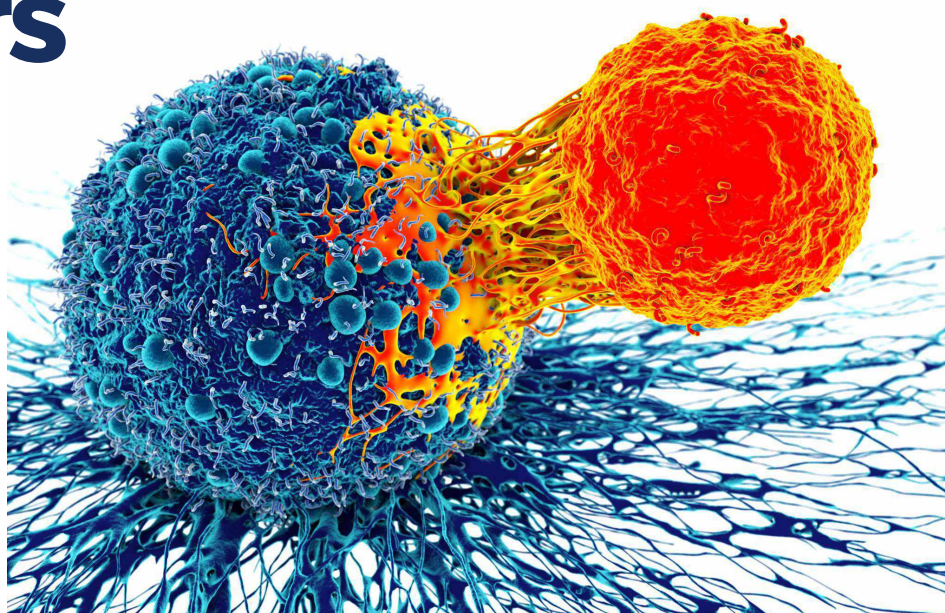
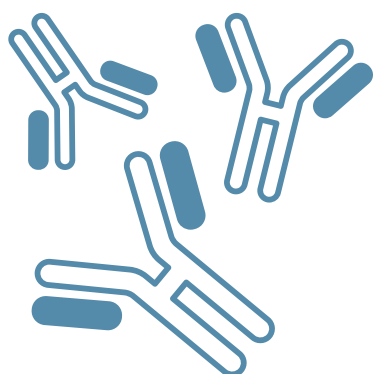
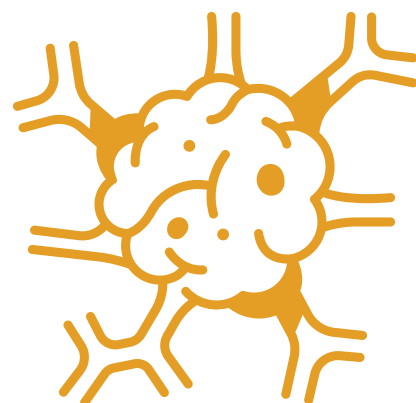
PAGE 8

Reducing Alcohol Intake Lowers Cancer Risk: What You Need to Know

PAGE 11

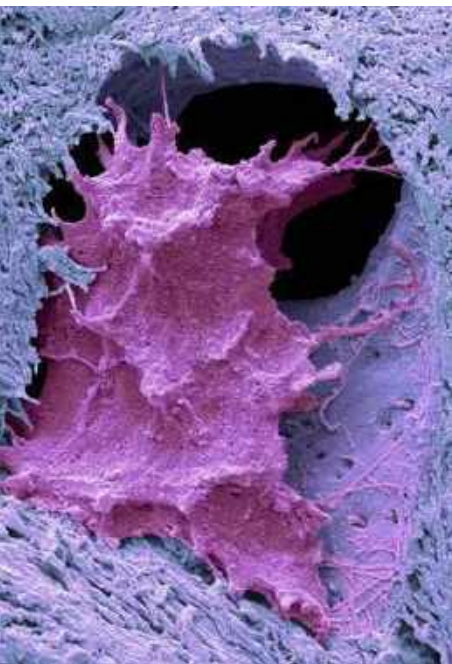
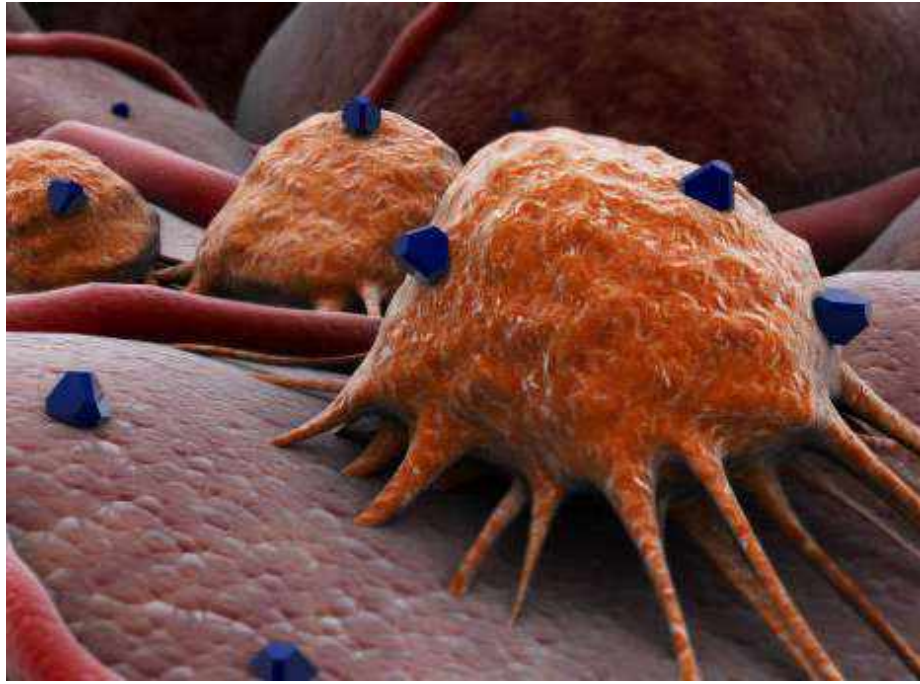
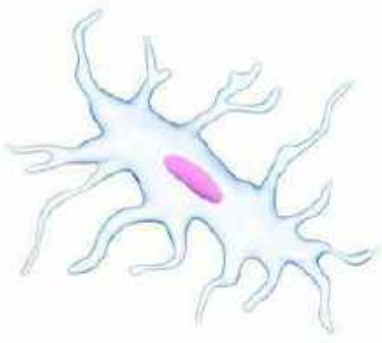
Cover story:
Breaking Barriers in Cancer with Arnab Roy Chowdhury, Founder, Mestastop Solutions, India

Researchers Discover the Weak Points of the Protein That Causes One in 10 Cancers



Researchers from the Center for Genomic Regulation in Barcelona have created the first map of the vulnerable sites of the KRAS gene, whose mutations cause millions of tumors. The KRAS gene is responsible for generating the KRAS protein, which causes the cell to divide. Uncontrolled activation of KRAS causes cells to multiply and cause cancer. Mutations in KRAS are behind almost 90% of pancreatic cancer cases, 40% of colon cancers and 35% of lung cancers . The team has finally managed to create a complete map of KRAS's weaknesses, which could help in developing drugs that target the protein . The research was published in the journal Nature .

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The Power of Genetics for Faster Bone Regeneration of Dental Implants

A groundbreaking study by dental scientists at Harvard School of Dental Medicine has found a new way to help your jaw bones heal faster and better after getting dental implants! They unveiled a pioneering approach that combines cutting-edge gene technology with dental implants to increase bone regeneration!



"These genes act like messengers, telling your body to build more bone where it's needed"

The Power of Genetics in Dentistry

Understanding the intricacies of genetics is proving to be a game-changer in dentistry. This study focused on the use of gene immobilization technology to deliver bone morphogenetic protein (BMP) directly to dental implants

The Breakthrough: CVD Technology and BMP Gene Delivery

They used a special technique called chemical vapour deposition (CVD), which is like giving the dental implant a tiny, personalized toolkit. This toolkit includes something called [2.2]paracyclophanes that help attach important genes (e.g. the BMP gene) to the implant.

In Vitro Success: BMP-7 and Titanium Synergy

The researchers found that putting a special bone-building gene, BMP-7, on the surface of dental implant material (titanium), like a coat of paint, enhanced osteoblast cell differentiation and alkaline phosphatase activity. The implant became like a superhero, making bone cells work better and faster!

This suggested that the gene delivery strategy gave the implant a power-up that helps bones grow stronger and heal quicker. It could also mean your body gets a little extra help to build up the bone around the implant!

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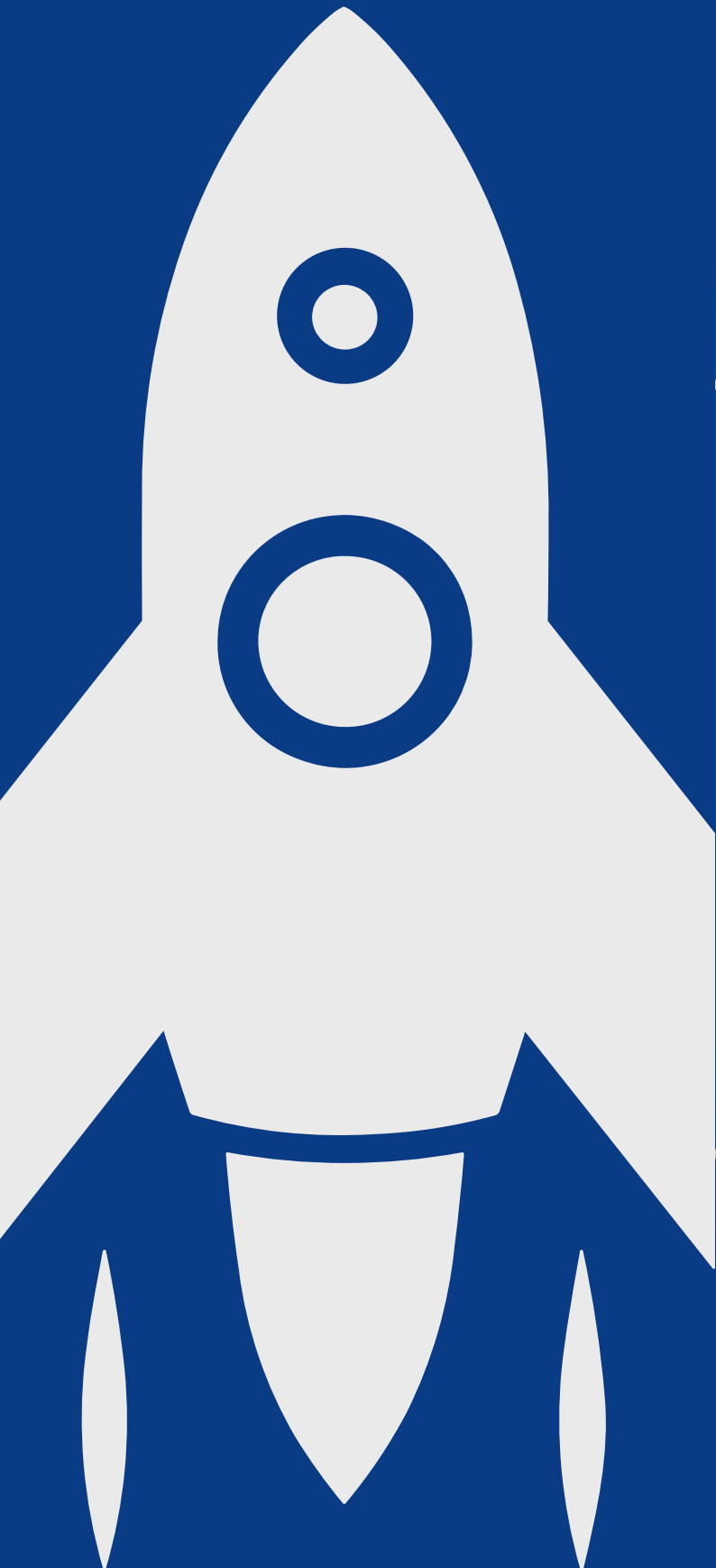
The Science Behind Yellow Hue of Human Urine

From the blog above we get to know that , scientists have discovered that the enzyme bilirubin reductase is responsible for giving urine its yellow color . The color of urine is primarily caused by the pigment urochrome, also known as urobilin . Urochrome is formed when the body breaks down old red blood cells . The color of urine depends on the concentration of urochrome in the urine, which is influenced by the amount of water in the body . If the body is dehydrated, the urine will be more concentrated and appear darker yellow . Certain diseases can also cause dark urine, such as urinary tract infections, uncontrolled type 2 diabetes mellitus, bladder infections, consuming certain drugs, and fistula in the urinary tract .

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Academy for Clinical and
Dental Genetics



Reducing Alcohol Intake Lowers Cancer Risk: What You Need to Know



The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence to support the claim that reducing or ceasing alcohol consumption can lower the risk of oral cancer, larynx cancer, esophageal cancer, colorectal cancer, and female breast cancer . The report also found that cessation of alcohol consumption decreases the risk of some types of cancers, especially those that affect the mouth and esophagus . The researchers examined data from over 90 studies about cancers caused by alcohol and stopping alcohol consumption. They discovered that cessation does decrease the risk of some types of cancers, especially those that affect the mouth and esophagus . The report suggests that decreasing alcohol intake decreases the production of acetaldehyde in the body, which in turn, reduces the risk of certain cancers . The article appears in the New England Journal of Medicine.

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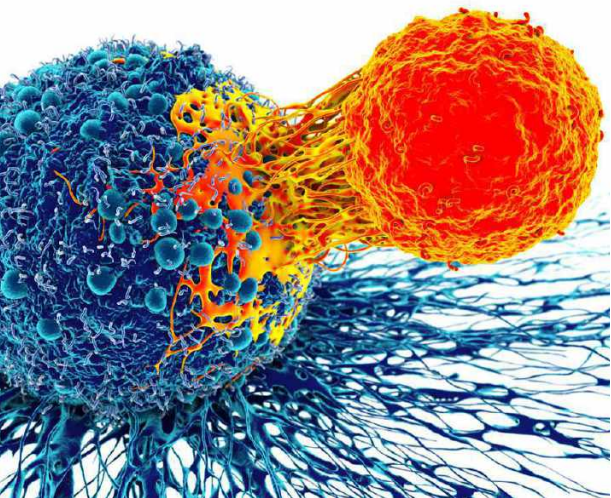
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Mestastop: A Novel Venture To Stop Cancer Spreading with Arnab Roy Chowdhury



Cancer can be broken down into four parts; mainly initiation, progression, immunosuppression, and finally metastasis, leading to death. Initiation and progression happen due to genetic reasons along with the interplay of the tumor microenvironment, whereas immunosuppression is the inefficiency of the body's immune system to recognize and destroy cancer cells.

One of the main reasons for these are the challenges faced in advancing a molecule targeting metastasis; from suitable In vitro models to the perfect animal model that will closely resemble the biology without alleviating cost and timelines. Mestastop aims to provide a solution for such challenges with their unique proprietary platforms, METAssay, METSCAN, and METVivo.

Metastasis is the movement of tumor cells through the blood and the formation of multiple tumors into different secondary sites of the body. Metastasis is responsible for almost 90% of cancer deaths. Unfortunately, though cancer treatment has advanced with targeted therapy and immunotherapy, there is still a huge gap as none of them addresses metastasis.

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Genomeden is a free e-magazine and is a trusted source for industry insights, news, and career guidance in the fields of dentistry and life sciences.

About GENOMEDEN

- Established: 2018
- Mission: To foster interdisciplinary scientific knowledge sharing by bridging basic science and clinical science
- Frequency: Monthly (online version)
- Distribution: 15,000 subscribers and growing

Content Highlights

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