



# MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia\_college@rediffmail.com // www.mugberiangangadharmahavidyalaya.ac.in

## Report on

### One Day Workshop on Cancer: insight of inside of lethality

Organized by  
Department of Zoology

In collaboration with  
Department of Chemistry and Research cell

Mugberia Gangadhar Mahavidyalaya  
Under  
DBT star college strengthening scheme, Govt. of India

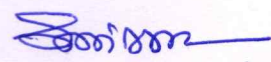
Programme Supervised by: **Dr.KousikKr.Mondal**

**Date:4<sup>th</sup> February, 2022**

Time: 11am onward

Platform: Zoom app streaming



  
54-02-2022

Principal  
Mugberia Gangadhar Mahavidyalaya

## Departmental meeting held on 22.07.2020

### Members present:

1. Dr.KousikKr.Mondal, HOD, SACT
2. Raju Majumdar, SACT
3. Sayantika Bera, SACT
4. Purnima Mandal, SACT
5. Dr.Bidhan Chandra Samanta, Associated Professor(Chemistry)

### Decision taken in the meeting:

The meeting was held through online mode with Google meet app. The objective of a workshop on cancer with a focus on the "insight of the inside of lethality" likely involves providing participants with a deep understanding of the factors and mechanisms that contribute to the development and progression of lethal forms of cancer. This workshop could have several key goals:

1. **Understanding Cancer Pathogenesis:** The workshop would delve into the molecular and cellular processes that underlie the development of aggressive and lethal forms of cancer. This could include discussions on genetic mutations, epigenetic changes, tumour micro environment, angiogenesis, and other factors that promote the growth and spread of cancer cells.
2. **Identification of High-Risk Factors:** Participants would learn about the various risk factors associated with lethal cancers, including genetic predisposition, environmental exposures (e.g., tobacco smoke, pollutants), lifestyle choices (e.g., diet, physical activity), and other contributing factors.
3. **Early Detection and Diagnosis:** The workshop might emphasize the importance of early detection and accurate diagnosis in improving the prognosis of cancer patients. Participants could learn about different screening methods, biomarkers, and imaging techniques that aid in identifying cancer at its earliest stages.
4. **Treatment Strategies:** Discussions could cover the latest advancements in cancer treatment, including targeted therapies, immunotherapies, chemotherapy, radiation therapy, and surgical interventions. The workshop might highlight the challenges of treating aggressive cancers and the need for personalized treatment approaches.
5. **Clinical Management:** Participants could gain insights into the clinical management of patients with lethal cancers, including the importance of multidisciplinary care teams, palliative care, and patient-centred approaches to improve quality of life.
6. **Research and Innovation:** The workshop might explore ongoing research efforts aimed at unravelling the complexities of lethal cancers and developing novel therapeutic strategies. Participants could learn about emerging technologies, such as precision medicine and CRISPR-based therapies, that hold promise for improving cancer outcomes.
7. **Public Awareness and Advocacy:** Participants might be encouraged to raise awareness about lethal cancers within their communities and advocate for policies that support cancer prevention, early detection, and improved treatment options.







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Date 27.01.2022

## Notice

### Department of Zoology

We are excited to announce an upcoming workshop that delves into one of the most pressing and intricate topics in the field of medical science “**Cancer: insight of inside of lethality**” on 4<sup>th</sup> February 2022 at 11am through online mode via zoom streaming. This workshop aims to provide a comprehensive understanding of cancer, its underlying mechanisms, and the groundbreaking insights that researchers have uncovered. So all the participant Join us in this enlightening workshop as we unravel the intricate web of cancer's lethality and gain insights into the incredible progress being made in the fight against this formidable disease.

Thanking you

Dr. Swapan Kumar Misra  
Principal

Dr. Kousik Kumar Mondal  
HOD







# One Day Workshop

## Cancer : insight of inside of lethality

Date : 4th February, 2022, 11am



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MUGBERIA GANGADHAR  
MAHAVIDYALAYA

Under  
DBT star college  
strengthening  
Scheme (Govt. Of  
India)



**Chair Person**  
Dr. Swapan Kr. Misra  
Principal,  
Mugberia Gangadhar  
Mahavidyalaya

*Eminent Speaker*



**Jt. Convener**  
Dr. Kousik Kumar Mondal  
Head, Dept. of Zoology  
Mugberia Gangadhar  
Mahavidyalaya



**Jt. Convener**  
Dr. Bidhan Ch. Samanta  
Coordinator, Research Cell  
Associate Professor & Head, Dept.  
of Chemistry  
Mugberia Gangadhar  
Mahavidyalaya



**Dr. Krishnendu Ghosh**  
Visiting faculty Ramkrishna Mission  
vidyamandir, Belur Math, Research  
investigator, Department of  
Astrobiology, SPACEONOVA

YouTube link:  
<https://youtu.be/yfVWLIgv0nQ>

Platform: Zoom apps Streaming on YouTube/ Facebook:  
<https://us02web.zoom.us/j/88218146344?pwd=ZC81ZFVyVzNlK05Fa2hGRG53V2ZnQ09>





# Workshop on Cancer: insight of inside of lethality

**Programme Director:**

Dr. Kousik Kumar Mondal, HOD, SACT, Dept. of Zoology

**Programme Coordinator:**

Syantika Bera, SACT

**Faculty Team:**

1. Dr. Bidhan Samanta Dept of Chemistry, HOD
2. Raju Majumdar, SACT
3. Purnima Mondal, SACT
4. Syantika Bera, SACT

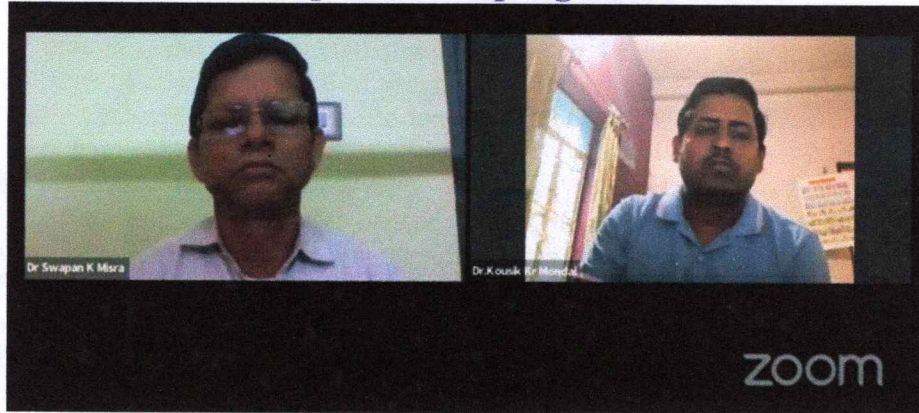
**Program Schedule**

10.45 am	Joining
11 am	Introductory remark of the program by Dr. Bidhan Chandra Samanta
11.05 am	Welcome address by Dr. Kousik Kumar Mondal
11.10 am	Inaugural speech By Dr. Swapan Kumar Misra
11.15 am	Introduction of invited Speaker and call him for speech by Dr. Bidhan Chandra Samanta
11.20 am-12.30 pm	Invited speech of Dr. Krishnendu Ghosh
12.30 pm- 12.50 pm	Question answer session conducted by Dr. Bidhan Chandra Samanta
12.50 pm	Vote of thanks





## Gimples of the program



### Cancer – the *crab* sticks in firmly!

Resisting cell death

Enabling proliferative signaling

Evading growth suppressors

Activating invasion and metastasis

Enabling replicative immortality

Warburg & Halama 2001, 2011

- Responsible for 9.6 million deaths worldwide (USCR 2017)
- 1300 people die everyday in India (ICMR 2015)

A B C D E

Asymmetrically dividing epithelial cells

Dysplasia - cells change their normal

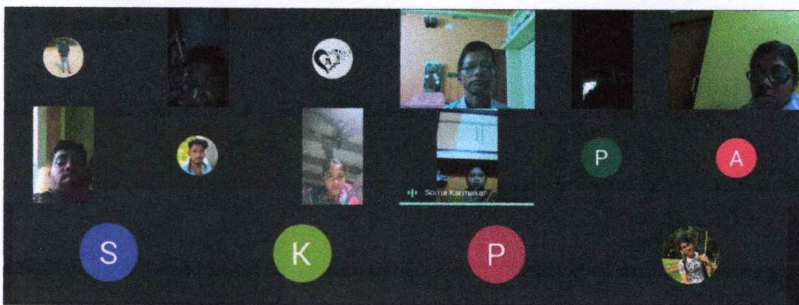
An early cancer - Cells stay in one place

Advanced cancer - Cancer cells invade normal tissue and enter blood and lymph

Metastasis - form in distant sites

Khanal, 2013

zoom





## OUT COME OF THE WORKSHOP

Cancer is a complex and multifaceted disease that can be lethal due to various factors, including the type of cancer, its stage of progression, the effectiveness of treatments, and the individual patient's health and response to treatment. A workshop on cancer lethality might explore several key areas:

1. **Understanding Cancer Biology:** The workshop might delve into the molecular and cellular mechanisms that drive cancer growth, invasion, and metastasis. Participants could discuss the genetic and epigenetic changes that contribute to the development of different types of cancer.
2. **Diagnostic Techniques:** Early detection plays a crucial role in improving cancer outcomes. Workshops might discuss advances in diagnostic techniques, including imaging technologies, liquid biopsies, and biomarker identification, which enable earlier and more accurate cancer detection.
3. **Treatment Modalities:** The workshop could cover various treatment options, such as surgery, chemotherapy, radiation therapy, targeted therapies, immunotherapy, and emerging therapies like gene and cell-based therapies. Participants might discuss the challenges of effectively targeting cancer cells while minimizing damage to healthy tissues.
4. **Personalized Medicine:** Cancer treatment is increasingly moving towards personalized approaches based on a patient's genetic profile and tumor characteristics. Workshops could explore how advances in genomics and molecular profiling are shaping individualized treatment strategies.
5. **Resistance and Relapse:** Cancer cells can develop resistance to treatments over time, leading to relapse. Discussions might revolve around the mechanisms underlying treatment resistance and potential strategies to overcome it.
6. **Clinical Trials:** The workshop could address the importance of clinical trials in evaluating new treatment approaches and their impact on cancer lethality. Participants might discuss the challenges and ethical considerations associated with conducting clinical trials.
7. **Supportive Care:** Managing the side effects of cancer treatments and improving patients' quality of life are critical aspects of cancer care. Workshops might cover strategies for providing comprehensive supportive care to cancer patients.
8. **Psychosocial Factors:** The psychological and emotional impact of a cancer diagnosis on patients and their families could also be discussed. This might include addressing mental health support and coping strategies.
9. **Public Health Initiatives:** Discussions could encompass the importance of cancer prevention and early detection programs, as well as raising awareness about risk factors and promoting healthy lifestyles.
10. **Future Directions:** The workshop might explore emerging research areas, technological advancements, and potential breakthroughs that could reshape our understanding of cancer lethality and improve patient outcomes.



*Sonika*  
Principal 4-02-2022  
Mugberia Gangaanar Mahavidyalaya