

A Report  
on  
*One Day International Webinar on*  
**Emerging Trends in Biomedical  
Applications of Nanostructured  
Materials**

July 14, 2021



*Organized by*  
**Department of  
Physics  
Rajiv Gandhi University  
Arunachal Pradesh**



*Submitted by*

**Convener: Dr. Jyoti Jaiswal  
Co-convener: Dr. Sayan Bayan  
Prof. Sanjeev Kumar  
Department of Physics, Rajiv Gandhi University**

# CONTENTS

i

*Organizing Committee*

*ii*

## **Part 1 PREFACE**

1.1. Background	1
1.2. Objectives	1
1.3. Themes	2
1.4. About the Sponsoring Agency	2
1.5. Budget	2

## **Part 2 SESSION WISE DETAILS**

2.1. Inaugural Session	3
2.2. Technical Sessions	4
2.3. Valedictory Session	4

## **Part 3 OUTCOME OF THE PROGRAMME**

3.1. Immediate implications in the context of Knowledge	5
3.2. Policy implications	5
3.3. Other implications (if any)	5

## **Part 4 ANNEXURES**

Annexure I: Programme Schedule	6
Annexure II: List of Participants	7-11
Annexure III: Photographs of Event	12
Annexure IV: Media Coverage	13-14

***One Day International Webinar***

***on***

**Emerging Trends in Biomedical Applications of  
Nanostructured Materials**

**July 14, 2021**

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Asst. Professor, Dept. of Physics

**Prof. Sanjeev Kumar**

Head, Dept. of Physics

### 1.1 Background

For a country to seek its rightful place in the league of nations, the quality and excellence of its research and innovation is of paramount importance. Cutting-edge research & innovation that constantly pushes the boundaries of knowledge contributes to the development of a knowledge society, but more critically it generates an interest for outstanding faculties and students to gravitate towards a career in research and innovation. This creates a virtuous spiral of ever-increasing quality and excellence that ceaselessly pushes the nation towards its cherished goal.

In the fast developing world, biomedical devices and peripherals have become more and more crucial in providing smoother function of human lives. The development of this field can bridge the gap between technology and medicine, flawlessly integrating the design and problem-solving skills of technology alongwith medical sciences to develop the healthcare sector in diagnosis, monitoring and therapy. The constant perusal of this field can even lead us to fight with pandemics like COVID 19 and thus the world has witnessed this development in the form of improved diagnostic kits, masks, sterilizers, and ventilators. Today the scientific community with doctors, therapists and researchers have come out with joined hands to develop systems, equipment and devices in order to solve critical clinical problems. Infact Biomedical science can be regarded as the heart of medical breakthroughs in healthcare. Thus it can serve the humanity with many of its fabulous applications like the creation of artificial muscles from cells to treat diseases and illnesses, searching at the brain to understand human stress and anxiety.

One Day International Webinar on “Emerging Trends in Biomedical Applications of Nanostructured Materials” is a modest endeavor to bring together scientists, academicians, researchers from across the National/International under one e-platform to share their views, scientific thoughts and experiences with each other. The invited speakers of the webinar are well known for their research contribution in this field. To be specific the speakers have combined the beautiful effects of Nanoscience and nanotechnology with life science in search of futuristic application of state of the art healthcare techniques. The Department of Physics, Rajiv Gandhi University, came into existence in 2011 and is striving to mark its footprint in the field of modern research in physical sciences. It can be believed that the student and research fraternity of this country especially the North-East Indian can gain enough knowledge to understand the present status and future prospect of this research filed.

### 1.2 Objectives

The specific objectives of the webinar were to:

- bring together the faculties, research scholars, students and other stakeholders to address various ways and means to strengthen the research and innovation in the country;
- understand how the country can improve the research and innovation output;
- increase the awareness and need for strengthening the research and innovation

in the country;

- understand how to conduct innovative and socially relevant research leading to publications in high impact factor journals;
- Foster a dialogue between the various stakeholders with a view to establishing long term, sustainable goal for achieving quality and excellence in research and innovation.

### **1.3 Themes**

The webinar featured thematically arranged keynote, plenary and invited lectures. The lectures were aimed at deliberating on the ways and means to develop indigenous technologies through research and innovation in Biomedical Applications of Nanostructured Materials and prepare the researchers and students prepare for challenges both at the personal as well as at societal level in near future by eminent academicians/scientists.

### **1.4 About the Sponsoring Agency**

Not Applicable

### **1.5 Budget**

Not Applicable

### 2.1 Inaugural Session

More than 150 students, researchers, academicians and scientists from all over India/abroad participated in the webinar via GoogleMeet.

In the inaugural session of the event, Dr. Jyoti Jaiswal, Department of Physics and Joint Convener of the webinar welcomed the participants from different institutes across India/abroad. Introduction by Dr. Jyoti Jaiswal, Assistant Professor, Department of Physics about the One Day International Webinar on "Emerging Trends in Biomedical Applications of Nanostructured Materials". Vice chancellor of RGU, Prof. Saket Kushwaha, an Indian educationist and agricultural economist, addressed the webinar and encouraged for interdisciplinary research work. Prof. Amitava Mitra, Pro Vice Chancellor, while addressing the gathering highlighted the various enabling initiatives taken by the University that can fuel and accelerate the growth of the University. Earlier, Prof. Pradip Kalita, Dean of Faculty of Basic Sciences emphasized on the need to encourage the research students to face the challenges created in the field of research and innovation in physical sciences. Registrar of the University addressed the webinar and encouraged all. Vote of thanks given by. This inauguration session followed by the technical session of four speakers. The inaugural session concluded with a vote of thanks proposed by Dr. Sayan Bayan.

### 2.2 Technical Sessions

In the webinar, 2 (two) technical sessions were conducted. Each session comprised of 2 (two) Plenary Lectures from eminent scientists, academicians and upcoming researchers in the field of physical sciences.

#### Technical Sessions I

**Dr. Sachin Kumar Srivastava**, Indian Institute of Technology Roorkee, Roorkee delivered the first plenary lecture of the International webinar on the topic "*Plasmon Enhanced Biosensors*". In his elaborate presentation, Dr. Sachin Kumar Srivastava introduced the concept of surface plasmon. Showed the concept of Surface enhanced Raman spectroscopy (SERS) based bio-sensors. Demonstrated the detection of E-coli using SERS based biosensors. Showed how the SERS vary with bacterial concentration and found that E-coli  $\mu\text{X}$  has larger affinity than E-coli B. Demonstrated that this technique is good for counting colony concentration. Showed the deep learning based techniques for identification and quantification. Introduced single bacterium classification model. Machine learning techniques can enable receptor-free biosensors. Developed 1D based metasurfaces based sensors with sensitivity 1435.71 nm/RIU for highly sensitive biosensors.

**Dr. Pranjal Chandra**, Indian Institute of Technology BHU, Roorkee delivered the second plenary lecture of the International webinar on the topic "*Nanobioengineering Approaches in Point-Of-Care and Personalized Diagnostics*". In his elaborate presentation, Dr. Pranjal Chandra Showed the research activity in biомolecular analysis, nanomedicine, nanosensors. Introduced the concept of nanobiosensors and discussed the scope of future research. Discussed the blood sugar sensor performance. He also showed the idea of introduction of nanomaterials in sensors and alkaline phosphate as a biological marker. Detection of pasteurization in milk.

Showed the idea of analytical performance in real samples with spike and recovery in commercially available milk. Developed DIC based protein detection kit and smart personalized detection kit, which can be integrated to devices. Showed the gold nanodendrite based biosensor of hydrogen peroxide in blood. Gold and carbon nanotube based nanohybrids for acetaminophen detection. Concluded with the prospects towards the development of ultrasensitive and dynamic range sensors. Discussed the commercial viability and product development.

Each lecture was followed by an interactive session of the participants with the resource persons. Dr. Jyoti Jaiswal, and Prof. Pradip Kalita, Dean of Faculty of Basic Sciences, RGU chaired the session.

### Technical Sessions II

The post lunch technical session II of the International Webinar consisted of 2 (two) plenary lectures from eminent scientist and academicians. First plenary lecture of the session was delivered by **Prof. Kenneth Yongabi** from LMO state University, Nigeria. Prof. Yongabi in his talk "Nanoparticles and their medical and environmental applications" introduced the concept of nanotechnology. Nanoparticle contribution for drug delivery, detection and imaging. Discussed the concept of drug delivery using nanoparticles. Mentioned sample methods such as smart drug, nanocomposite hydrogel, magnetic nanoparticles. Imaging techniques using quantum dot labels. Application of zinc oxide for treating Black fungus. Assessment of antimicrobial activity of Co-CNTs nanoparticles to *Staphylococcus aureus*. Discussed the nanotoxicity. Stated in vitro NM studies. Discussed the challenges and future aspects.

**Dr. Nirmal Mazumder**, Manipal Academy of Higher Education, India delivered the second plenary talk entitled "Label free nonlinear optical microscopy for biomedical applications" of the webinar. He discussed the concept of fluorescence. He stressed on contrast enhancement and genetic manipulation. He discussed wide field microscope and confocal microscope. Nonlinear optical process like two photon microscope. Discussed Fluorescence lifetime measurement and second harmonic generation. Showed the process of 2-channel polarization microscopy and introduced the concept of Stokes' parameter. Developed 4-ch polarimeter with second harmonic generation based signal. Showed Stokes' images of second harmonic generation based signals of Collagen fibers. Concluded that second harmonic generation based microscopy is better than other microscopy techniques. Discussed coherent anti-stokes Raman microscope and its advantages. Discussed multimode nonlinear optical microscope and demonstrated images of Huh7 cells.

Each lecture was followed by an interactive session of the participants with the resource persons. Dr. Jyoti Jaiswal, and Prof. Pradip Kumar Kalita, Dean of Faculty of Basic Sciences, RGU chaired the session.

### Valedictory Session

Prof. Pradip Kumar Kalita, Dean of Faculty of Basic Sciences congratulated the organizers for their initiative. The participants thanked Rajiv Gandhi University for organising a fruitful webinar on a timely topic. Prof. Sanjeev Kumar, Head, Department of Physics, co-convenor of the programme proposed the vote of thanks and expressed gratitude to all the resource persons for delivering their lectures and participants for their overwhelming responses.

## PART 3: Outcome of the Programme

### 3.1 Immediate implications in the context of Knowledge

The endeavor which first of its kind by Department of Physics, RGU has enabled us:

- to find the key issues and challenges associated with the implementation of research and innovation ideas in our country.
- prospects and key initiatives to position RGU in coming days to enhance the research and innovation output.

The webinar drew the attention of the budding researchers towards the importance of sustainable use of natural resources and development of eco-friendly processes for betterment of mankind. The participants had a good opportunity to interact with the experts working in the frontier areas of physical science in various reputed institutes of the country.

### 3.2 Policy Implications

Although there is no such policy implication per se, we understand that webinar has made us look into the research and innovation being carried out in the University and has given impetus to take initiatives to enhance the research and innovation output of the University.

### 3.3 Other Implications (if any)

NA



## **Annexure I: Programme Schedule**

### **One Day International Webinar**

**on**

### **Emerging Trends in Biomedical Applications of Nanostructured Materials**

**July 14, 2021**



**Department of Physics**

Rajiv Gandhi University  
Rono Hills, Doimukh 791 112  
Arunachal Pradesh, INDIA

### **PROGRAMME DETAILS**

<b>Inauguration Session (10:30 am to 11:15 am)</b>		
Dr. Jyoti Jaiswal	Convener, About the programme	10:30 am to 10:40 am
Prof. Pradip Kr. Kalita	Patron	10:40 am to 10:50 am
Prof. Amitava Mitra	Patron	10:50 am to 11:00 am
Prof. Saket Kushwaha	Chief Patron	11:00 am to 11:10 am
Dr. Sayan Bayan	Convener, Vote of Thanks	11:10 am to 11:15 am
Speakers	Title of the Scientific Talk	Time
<b>Technical Session – 1<sup>st</sup> (11:15 am to 01:15 pm)</b>		
Dr. Sachin Kumar Srivastava, IIT Roorkee	Plasmon Enhanced Biosensors	11:15 am to 12:15 pm
Dr. Pranjal Chandra, IIT BHU	Nanobioengineering Approaches in Point-Of-Care and Personalized Diagnostics	12:15 pm to 01:15 pm
<b>Technical Session – 2<sup>nd</sup> (02:30 pm to 04:30 pm)</b>		
Prof. Kenneth Yongabi Anchang, IMO State University, Nigeria	Nanoparticles and their medical and environmental applications	02:30 pm to 03:30 pm
Dr. Nirmal Mazumder, Manipal Academy of Higher Education	Label free nonlinear optical microscopy for biomedical applications	03:30 pm to 04:30 pm
Dr. Sanjeev Kumar Convener, Prof. & Head Dept. of Physics, RGU	Vote of Thanks	04:30 pm

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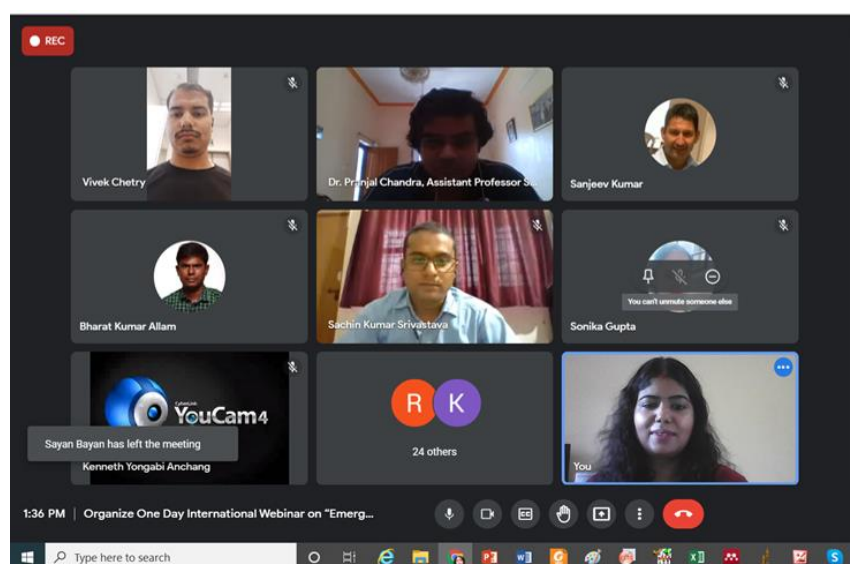
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### Annexure III: Photographs of the Event





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## Webinar addresses recent development in biomedical technologies for healthcare application

**RONO HILLS, 14 Jul:** An international webinar on 'Emerging trends in biomedical applications of nano-structured materials' was organized by the department of Physics, Rajiv Gandhi University (RGU) on Wednesday to address the recent development in biomedical technologies for healthcare applications based on nanostructured materials.

IIT Roorkee Assistant Professor Dr Sachin Kumar

Srivastava delivered a talk on the 'Introduction the concept of surface plasmon enhanced biosensors', whereas IIT BHU Assistant Professor Dr Pranjal Chandra showed the research activity in biomedicine analysis, nanomedicine and nanosensors.

Later, IMO State University, Nigeria Prof Kenneth Yongabi Anchang introduced the concept of nanotechnology for biomedical and environmental

applications, while Manipal Academy of Higher Education Assistant Professor Dr Nirmal Mazumder introduced the concept of nonlinear optical microscopy for biomedical applications.

A total of 150 participants were present in the webinar and were enriched with recent research developments and activities in the biomedical applications based on nanostructured materials.

Link of the report: <https://arunachaltimes.in/index.php/2021/07/15/webinar-addresses-recent-development-in-biomedical-technologies-for-healthcare-application/>

## Eastern Sentinel

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Home / State

**RGU CONDUCTS INT'L WEBINAR ON EMERGING BIOMEDICAL TECHNOLOGIES**

14th Jul 2021 11:07:PM State



RONO HILLS, Jul 14: Department of Physics, Rajiv Gandhi University, today organised a day-long international webinar on 'Emerging Trends in Biomedical Applications of Nano-structured Materials'. The webinar focused on the recent developments in biomedical technologies based on nano-structured materials that are used in healthcare applications. RGU VC Professor Saket Kushwaha encouraged the participants to emphasize on interdisciplinary research work and the webinar was enriched through deliberations by eminent Resource Persons like Assistant Professor, IIT Roorkee Dr. Sachin Kumar Srivastava and Assistant Professor, IIT BHU Dr. Pranjal Chandra. Professor Kenneth Yongabi Anchang from IMO State University, Nigeria and Assistant Professor, Manipal Academy of Higher Education Dr. Nirmal Mazumder elaborated on various aspects of the topic. A total of 150 individuals from various parts of the country and world participated in the webinar. RGU PR

Link of the report: <http://www.easternsentinel.in/news/state/rgu-conducts-intl-webinar-on-emerging-biomedical-technologies.html>



GENERAL

## RGU's Dept of Physics holds int'l webinar on 'emerging trends in biomedical applications...'

RONO HILLS, Jul 14: Department of Physics, Rajiv Gandhi University today organized a one day international webinar on 'Emerging Trends in Biomedical Applications of Nanostructured Materials'.

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RGU vice chancellor Prof Saket Kushwaha, in his address, encouraged for interdisciplinary research works. Pro VC, Registrar, Dean of Basic Sciences, heads also spoke with a few words of encouragement at the inaugural session.

The webinar addressed the recent development in biomedical technologies for healthcare applications based on nanostructured materials. The most prominent biomedical applications of nanostructured materials are the detection of various biomolecule analytes for Personalized Health Wellness.

Eminent resource persons such as Dr Sachin Kumar Srivastava, Asstt Professor, IIT Roorkee delivered a talk on 'Introduction of the concept of surface plasmon enhanced biosensors', where as Dr Pranjal Chandra, Asstt Professor, IIT BHU showed the research activity in biomeolecular analysis, nanomedicine, nanosensors.

Later, Prof KennethYongabiAnchang, IMO State University, Nigeria introduced the concept of nanotechnology for biomedical and environmental applications and last but not the least, Dr Nirmal Mazumder, Asstt Professor, Manipal Academy of Higher Education, India introduced the concept of nonlinear optical microscopy for biomedical applications.

A total of 150 participants attended the international webinar and were enriched with recent research developments and activities in the biomedical applications based on nanostructured materials.

The webinar was convened by Dr Jyoti Jaiswal and Dr Sayan Bayan, Department of Physics.

Prof Sanjeev Kumar, HoD, Physics also spoke.

Link of the report: [http://echoofarunachal.in/news\\_details.php?nid=7318](http://echoofarunachal.in/news_details.php?nid=7318)