

DST-Fist Center, MIET

Sponsored by

Department of Science and Technology

Ministry of Science & Technology

Government of India





ABOUT THE DST-FIST CENTER, MIET

Establishment

Established on 19th Oct, 2019

Objective 1

*The Scheme "Fund for Improvement of S&T Infrastructure (FIST)" Sponsored By Department of Science & Technology (DST),Govt. of India

Objective 2

*To provide basic infrastructure and facilities for promoting R&D activities in new and emerging areas.

Objective 3

❖To attract fresh talents from universities & other educational institutions.









Team Members



Prof.(Dr.) Sanjay Kr. Singh

Principal Investigator, DST-FIST Center, MIET

Email: directormiet@miet.ac.in



Dr. D. V. SuryaPrakash



Email: anurag.chaudhary@miet.ac.in

विज्ञान एवं प्रौद्योगिकी विभाग

SCIENCE & TECHNOLOGY



Dr. Neha Singh

Associate Professor

Department of Biotechnology, MIET, Meerut.

Email: neha.singh@miet.ac.in

Associate Professor

Department of Biotechnology, MIET, Meerut.

Email: surya.prakash@miet.ac.in

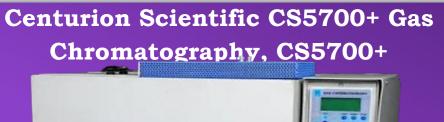






Major Equipments







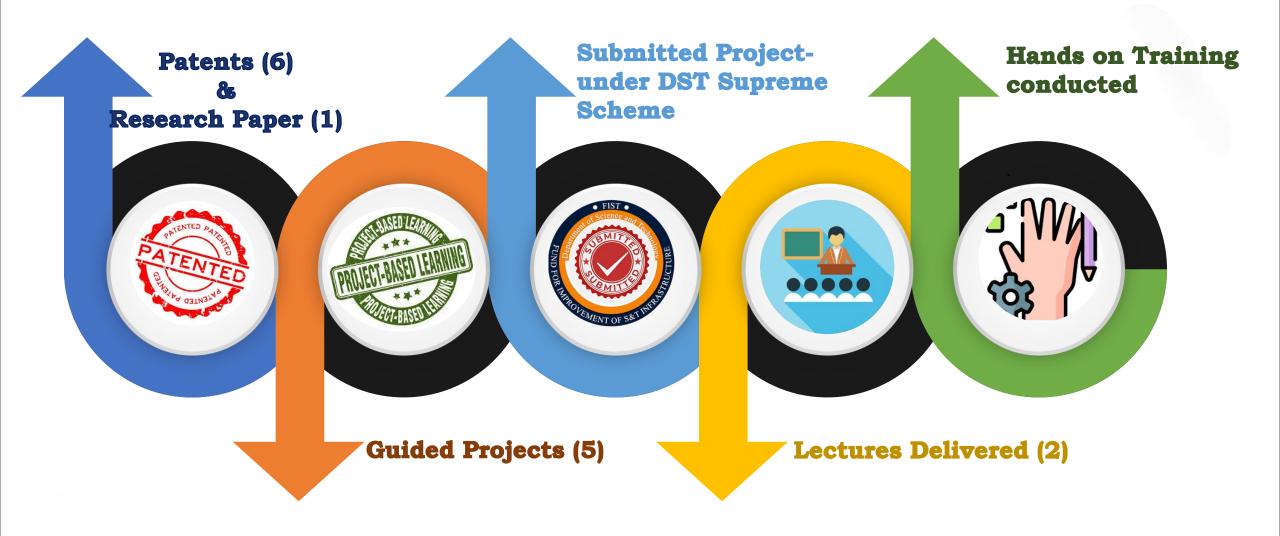








Achievements_2024-25









Achievements_2024-25, Paper Published & Patent Granted

Paper Published

Siwach A, Baliyan V, Sharma A, Ahlawat S, Chaudhary S, Chakraborty E. Current standing and future potential of 3D bioprinting and biomaterials. Biomaterials Connect. 2025 May 15;2(1):1-0.



2025, Article ID. 2025.0015, Cite as: https://doi.org/10.69709/BIOMATC.2025.198090







Current Standing and Future Potential of 3D Bioprinting and Biomaterials

Aanchal Siwach^{a,1,2}

Vishakha Baliyan^{a,1}

Ayushi Sharma^{a,1}

Shraddha Ahlawat^{a,1}

Shikha Chaudhary^{a,3}

Eliza Chakraborty^{a,1,2}

Shikha Chaudhary^{a,3}

- ¹ Medical Translational Biotechnology Lab, Meerut Institute of Engineering & Technology, Meerut 250005, Uttar Pradesh, India
- ² DST-FIST Center Sponsored by Ministry of Science & Technology, Government of India, MIET, Meerut 250002, Uttar Pradesh, India
- ImmunoScience India Private Limited, Pune 411 004, Maharashtra, India

Article History

Submitted: December 23, 2024

Accepted: April 11, 2025

Published: May 15, 2025

Abstract

Biomaterials play a pivotal role in advancing tissue engineering, offering significant potential in 3D bioprinting and translational medicine. Their development has led to the creation of innovative solutions in medical devices, dental implants, and prosthetics, where they serve to restore function and enhance patient quality of life. The success of these biomaterials is primarily dependent on important characteristics that guarantee their safe integration with the body and promote tissue regeneration, such as biocompatibility, biodegradability, and bifunctionality. This review explores recent advancements in these areas, with a particular focus on the role of nanotechnology in enhancing biomaterial properties. Biomaterials have opened many avenues by improving mechanical, biological, and functional properties for targeted treatments, precision therapies, improved therapeutic effectiveness, and better results. Additionally, the rise of 3D printing technologies has transformed the design and fabrication of biomaterials, enabling the production of customized implants and scaffolds with intricate geometries suited to individual patient needs. This review examines the current state of research, challenges faced in the field, and emerging trends in the integration of nanotechnology and additive manufacturing to push the boundaries of biomaterial applications in tissue engineering and regenerative medicine.

Patent Granted

Patent No.: 552159

Application No.: 202031040945

A POTENTIAL NATURAL BIO-MATRIX FROM ALOE VERA GEL FOR SUSTAINING GROWTH OF ADHERENT CELLS IN ANIMAL CELL CULTURE.

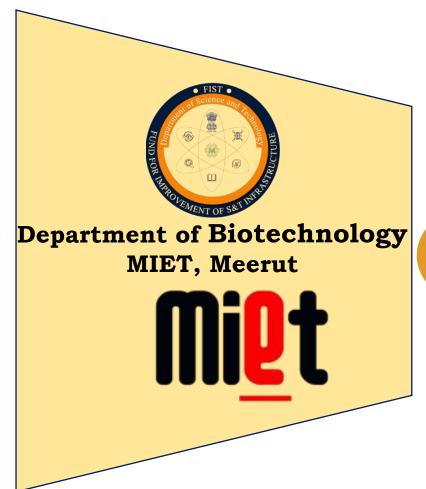








Achievements_2024-25, Patent Published





Application No: **202511015762A**

Fusion matrix-based 3D in vitro drug screening model: A sustainable alternative to animal testing.

Application No: **202511015792A**

Plant-based biomatrix for 3D in vitro drug screening model, 2025

Application No: **202511026823A**

Flax seed-based advanced biomaterial for supporting A375 cell growth, 2025

Application No: **202511026834A**

Aloe vera-based advanced biomaterial for supporting A375 cell growth in 3D culture, 2025

Application No: **202511026851A**

Chia seed-based biomaterial for HeLa cell culture and tissue engineering. 2025







Achievements_2024-25, Guided Projects

Current standing of plant biomaterial for in -vitro disease modeling & future green therapeutic applications

Cytotoxicity assessment of lead acetate & cobalt nitrate on HeLa cell line using MTT assay

Application of biomaterial: current standing and future prospective of skin based in vitro screening model

Development of an *in*vitro uterine-based
disease model using
advanced biomaterials



Comparative cytotoxicity assessment of lead acetate on HeLa and MDA-MB-231 cell line using MTT assay







Achievements_2024-25, Project Submitted

Project proposal for **DST SUPREME scheme**

Bridging the Gap: A DST-SUPREME Initiative for Sustained Functionality and Upgradation of DST-FIST Aided Infrastructure









Achievements_2024-25, Lecture Delivered



Topic – Biological & Laboratory Safety Date- 21 Feb 2025

Audience- B. Tech students, Department of Biotechnology



Topic – Introduction to DST FIST Centre Date- 10 April 2025 Audience- 2nd Year students, Computer Science Department







Achievements_2024-25, 5-Days hands on Workshop on Cell Culture Techniques



DEPARTMENT OF BIOTECHNOLOGY

SUPPORTED BY

DST-FIST CENTER, MIET & ACIC MIET MEERUT FOUNDATION

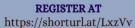
IS ORGANIZING A

5-DAY HANDS-ON WORKSHOP ON **CELL CULTURE TECHNIQUES**









WORKSHOP HIGHLIGHTS

- Aseptic Techniques & Cell Revival
- Sub-culturing & Cell-counting
- Cell-seeding for Assays
- Cryopreservation
- Cytotoxicity Assay
- Kit & Lunch Included
- Accommodation at extra cost



WORKSHOP CHARGES Rs. 5015 (Inclusive of GST) per person

Contact Us:

+91 9560347907, 8979977678

garima.agarwal@miet.ac.in; nitika.verma@miet.ac.in DST-FIST CENTER, MIET, MEERUT















Achievements_2024-25, 5-Days hands on Workshop on Cell Culture Techniques



दैनिक जागरण





एमआइईटी में कार्यशाला के समापन समारोह में शामिल प्रतिभागी। सौ , कालेज

कोशिका संवर्धन के सैद्धांतिक और व्यावहारिक पक्ष बताए

एमआइईटी में सेल कल्चर तकनीक पर पांच दिवसीय कार्यशाला का समापन

जागरण संवाददाता, मेरठ: मेरठ इंस्टीट्यूट आफ इंजीनियरिंग एंड टेक्नोलाजी (एमआइईटी) में जैव प्रौद्योगिकी विभाग की ओर से विज्ञान एवं प्रौद्योगिकी विभाग व एसीआइसी एमआइईटी फाउंडेशन के सहयोग से पांच दिवसीय हैंड्स आन सेल कल्चर तकनीक कार्यशाला का आयोजन किया गया। इसका उद्देश्य प्रतिभागियों को एनिमल सेल कल्चर की सैद्धांतिक एवं व्यावहारिक जानकारी देना रहा।

कार्यशाला का उद्घाटन डा. अमित कुमार बालियान ने किया और बायोमेडिकल व फार्मास्यूटिकल

रिसर्च में सेल कल्चर की उपयोगिता पर प्रकाश डाला। बताया कि एनिमल सेल कल्चर (कोशिका संवर्धन) ऐसी प्रक्रिया है जिसमें पशु कोशिकाओं को शरीर के बाहर एक नियंत्रित, कृत्रिम वातावरण में उगाया और विकसित किया जाता है। प्रतिभागियों को मीडिया साइटोटाक्सिसिटी परीक्षण, पासेजिंग, काउंटिंग और क्रायोप्रिजवेंशन जैसी उन्नत तकनीकों का प्रशिक्षण दिया गया। एमआइईटी के निदेशक डा. संजय कुमार सिंह ने समापन समारोह में कहा कि ऐसी कार्यशालाएं छात्रों को शोध व उद्योग के लिए तैयार करती हैं। यह कार्यशाला बायोटेक्नोलाजी क्षेत्र में शोध और नवाचार को बढावा देने की एमआइईटी की प्रतिबद्धता

एमआईईटी मेरठ में सेल कल्चर तकनीक पर पांच दिवसीय कार्यशाला सम्पन्न, बायोटेक्नोलॉजी में शोध रुचि को मिला नया आयाम

सियासत ब्यूरो/मेरठ। मेरठ इॅस्टिट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (एमआईईटी) के जैव प्रौद्योगिकी विभाग द्वारा

विज्ञान एवं प्रौद्योगिकी विभाग और एसीआईसी एमआईईटी फाउंडेशन के सहयोग से पांच दिवसीय हैंड्स-ऑन सेल कल्चर तकनीक कार्यशाला का आयोजन किया गया। इसका उद्देश्य प्रतिभागियों को एनिमल सेल कल्चर की सैद्धांतिक एवं व्यावहारिक जानकारी देना था। कार्यशाला का उद्घाटन डॉ.



अमित कुमार बल्यान ने किया और बायोमेडिकल व प्तर्मास्यूटिकल रिसर्च में सेल कल्चर की उपयोगिता पर प्रकाश डाला। प्रतिभागियों को मीडिया तैयारी, कोशिका पृथक्करण, साइटोटॉक्सिसिटी परीक्षण, पासेजिंग, काउंटिंग और क्रायोप्रिजर्वेशन जैसी उन्तत तकनीकों का प्रशिक्षण दिया गया। एमआईईटी के निदेशक डॉ. संजय कुमार सिंह ने समापन समारोह में कहा कि ऐसी कार्यशालाएं छात्रों को शोध व उद्योग के लिए तैयार करती हैं। प्रतिभागियों ने प्रशिक्षण को व्यावहारिक और उपयोगी बताया। यह कार्यशाला बायोटेक्नोलॉजी क्षेत्र में शोध और नवाचार को बढ़ावा देने की एमआईईटी की प्रतिबद्धता को दशार्ती है।







Road Map 2025-26



Shared Access & Support

Workshops & Guest Lectures



7 MoU



Conduct
Interdisciplinary
Research



3 Students Research Projects

Patents & Publications (IPR)

Publications (IPR)











DST-Fist Center, MIET Sponsored by Department of Science and Technology, Ministry of Science & Technology, Govt. of India.



DST-FIST Center Inauguration (2019-2020)

बायोटेक्नोलॉजी के छात्रों को रिसर्च के लिए मिली डीएसटी एफआईएसटी एडवांस रिसर्च लैब

बुलन्द वाणी • संवाददाता

मेरठ। विज्ञान और प्रौद्योगिकी विभाग भारत सरकार द्वारा विज्ञान एवं तकनीक के क्षेत्र में अनुसंधान और विकास को बढ़ावा देने के उद्देश्य से एडवांस बायोटेक्नोलॉजी इंस्ट्रमेंट रिसर्च लैब का उद्घाटन एमआईईटी में किया गया। डीएसटी एफआईएसटी एडवांस रिसर्च लैब का उद्घाटन एमआईईटी ग्रुप के चेयरमैन विष्णु शरण, वाइस चैयरमैन पुनीत अग्रवाल, डायरेक्टर डॉ मयंक गर्ग, डीन एकेडिमक डॉ डीके शर्मा ने संयुक्त रूप से फीता काटकर किया।

तहत 50 लाख रुपए का अनुदान विकास गतिविधियों को बढावा देने इसमें शिक्षकों, शोधार्थियों समेत दिया जाएगा।



और विश्वविद्यालयों और अन्य एमटेक व बीटेक छात्रों को रिसर्च बायो टेक्नोलॉजी विभाग के शैक्षणिक संस्थानों में नई प्रतिभाओं को कार्य से जुड़ने के लिए आर्मात्रत किया विभागाध्यक्ष डॉ नितिन शर्मा ने बताया आकर्षित करने के लिए बुनियादी गया है। इसके लिए छात्रों के पास की विज्ञान और प्रौद्योगिकी के ढाँचा और सक्षम सुविधाएं प्रदान स्वस्थ्य, एनर्जी व मैटिरियल पर शोध बुनियादी ढांचे में सुधार के लिए करना है। न्यूनतम रिसर्च एंड से जुड़ा कोई प्रोजेक्ट हो तो वह भी बुनियादी ढांचे में सुधार के लिए करना है। न्यूनतम रिसर्च एंड से जुड़ा कोई प्रोजेक्ट हो तो वह भी डीएसटी द्वारा एमआईईटी के डेवलपमेंट उपयोगी इंस्ट्रूमेंट भारत यहां पर आकर काम कर सकते हैं। बायोटेक्नोलॉजी विभाग को योजना के सरकार के अनुदान द्वारा खरीदे गए हैं. उन्होंने बताया कि इसके साथ ही यंग जिससे कैंसर जैसी गंभीर बीमारियों पर रिसर्चर कार्यक्रम भी छात्रों के लिए किया गया। इस योजना का उद्देश्य नए रिसर्च करने में मदद मिलेगी। शोध के जल्द शुरू किया जाएगा। साथ ही और उभरते क्षेत्रों में अनुसंधान और प्रति छात्रों का रूझान बढ़ाने के लिए छात्रों का नाम भी रिसर्च जर्नल्स में



CONTENTS

Introduction

 ${\tt Objectives}$

Team members details

List of equipments

Road map

Activities/events conducted

Credentials

Awards

Media coverage

INTRODUCTION

DST-Fist Center, MIET, Sponsored by the Ministry of Science & Technology, Govt. of India established 19th Oct, 2019.

This center is focused mainly on Translational research:
Drug discovery, Cancer stem cell targeted drug
discovery, Tissue engineering, Biomaterial, Stem cell,
in vitro organ development, and Cruelty-free drug
testing by exploring advanced techniques of 3D cell
culture model

OBJECTIVES

The Scheme "Fund for Improvement of S&T Infrastructure (FIST)" is Sponsored By the Department of Science & Technology (DST), Govt. of India.

To provide basic infrastructure and enabling facilities for promoting R&D activities in new and emerging areas.

To attract fresh talents in universities and other educational institutions.

NATURE OF SUPPORT

The Scheme will provide optimal infrastructure facilities for post-graduate and higher research, such as, renovation of existing laboratory space, but no fresh Constructions.

To modernization of laboratories involved in PG and Higher Research.

By acquisition of essential equipment, up-gradation of existing facilities, networking &computational facilities including software &databases, scientific & technical books (no journals)

The facilities provided under the Program are intended to support the efforts of the Department as a whole or a number of faculty members in the Department.

TEAM MEMBERS ALONG WITH DETAILS

Prof. (Dr.) Sanjay Kr. Singh
 Principal Investigator, DST-FIST Center, MIET

Email: directormiet@miet.ac.in

Contact No:9917103999



2. Prof. Eliza Chakraborty

HOD DST-Fist & Scientist

Professor, Department of Biotechnology

MIET, Meerut.

Email: eliza. chakraborty@miet. ac. in

Contact No: 7060857697



TEAM MEMBERS ALONG WITH DETAILS

3. Dr. Anurag Chaudhary

Professor, Department of Pharmacy, MIET

Scientist, DST-FIST Center, MIET

Email: anurag.chaudhary@miet.ac.in

Contact No: 8077715655



4. Ms. Deepika Pal

Scientist

DST-FIST Center, MIET

Email: deepika.pal@miet.ac.in

Contact No: 6395098741



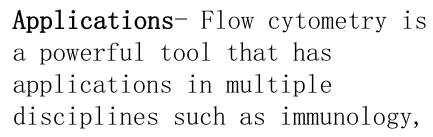
LIST OF MAJOR EQUIPMENT

S.N	Name of Equipment	Cat No.	Cost	Working
0.				Status
1.	BD Biosciences Accuri	C6 Plus	11,27,000/-	Working
	C6 Plus Flow			
	Cytometer			
2.	Multiskan Sky High	51119700DP	30,09,000/-	Working
	Microplate			
	Spectrophotometer			
3.	Centurion Scientific	CS5700+	4,39909/-	Working
	CS5700+ Gas			
	Chromatography			
4.	CO2 Incubator	3111	5,60,619/-	Working
7.	(Thermo Fisher	3111	3,00,017/-	Working
	Scientific)			

1. BD BIOSCIENCES ACCURI C6 PLUS FLOW CYTOMETER

Material 660517 HSB Code 90278099 Bath No. 9347671 Application Trainer

- 1. Mr. Vishal Garg- 8800798333
- 2. 2. Mr. Anjan Ghosh-8879558596



virology, molecular biology, cancer biology, and infectious disease monitoring.



2. THERMO SCIENTIFIC MULTISKAN SKY HIGH MICROPLATE SPECTROPHOTOMETER

Ser No. 1530801076C

HSN/SAC Code 9027

Part No. / Cat No. 51119700DP

Application Trainer-

Dr. Anil Kumar- 8860318679



Applications-

Virtually any photometric research application

ELISA

Cell Cytotoxicity

DNA, RNA, and Protein analysis

Turbidity measurements

3. CENTURION SCIENTIFIC CS5700+ GAS CHROMATOGRAPHY

Model 5700
HSN CODE 9027
Application Trainer

Mr. Praveen Sharma- 9999429898

Applications— Gas—liquid chromatography (GLC) is a commonly used method for lipid analysis. Although marine fatty acids are generally derivatized by transesterification, saponification, and extraction followed by derivatization to fatty acid methyl esters (FAMEs) may be used.



4. THERMO SCIENTIFIC FORMA SERIES II WATER JACKET CO2 INCUBATOR

Ser No. 300300901 HSN/SAC Code 81198990 Part No./Cat No. 3111 Application Trainer- Mr. Harish 9310333125

Applications— CO₂ incubators are most frequently used in medical research and in the research Laboratories. However, incubators are also used in areas where cells need to be grown in sterile conditions.



ROAD MAP

- 1. Accusation of High-class Instruments.
- 2. Easy access to advanced technology.
- 3. Upgrading the R&D Facility for faculty, P.G Students & Researchers. (Awareness programs like International Inaugural Lecture Series (2020-2021) Hosted By DST- Fist Center, MIET, Meerut.
- 4. Student tanning conducted on advanced cell culture and Lab safety.
- 5. Through this central facility to students (Directly and Indirectly), nearby colleges and Industries are taking advantage of this facility.
- 6. Foreign Collaboration and central government funding attracted. Viz. Idea Lab, AIC, etc.

ACTIVITIES/EVENTS CONDUCTED

- I. Seminar / Expert Talk:
- 1. International Lecture Series

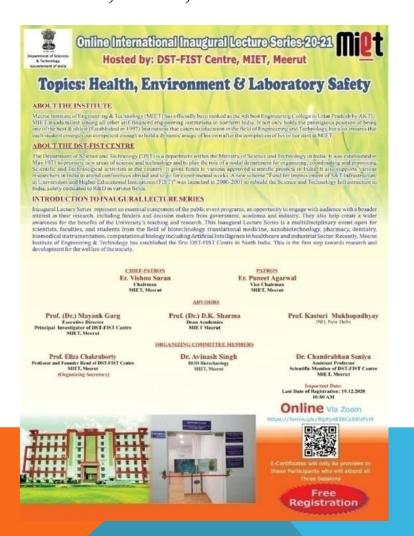
Online International Inaugural Lecture Series (2020-2021)

Topic: Health, Environment & Laboratory

Hosted By DST- Fist Center, MIET, Meerut

Date: 19th Dec, 2020, 16th Jan. 2021 and 20th Feb. 2021

Online International Inaugural Lecture Series (2020- 2021) Hosted By DST- Fist Center, MIET, Meerut



Date &	Title	Speakers	
(100,200) (1020/P01/307)	"Advancement in Cancer Therapoints"	Dr. Vichty Yemamoto: Cener Sciential, Department of Observagology Reck Schedel of Medicine of USC Encursor Director of Sourcety for Brain Mapping S. Thorapactics (SIMMY) Lon Angeline, CA, USA.	
TOTAL SECTION AND	"COVID-1Pand CV Based Sterillenium Units"	Dr. Ambarish Kunwar Assentate Professor, Department of Missentate Professor, Ledan Systems of Typessoring, Sector Systems of Typessoring, Stockhop	3
ENAME COMP.	"Theodogument of Next Generation CMVs Based Shipelia Nacciously the Way of Multitalineasiseal Approaches"	Dr. Nemanta Koley Behntial E. I Deputy Disease Ownses of Hesterinings Palaces Institute of Conserva and Francis Chemina, Públic, Website	
STATES THE	"Faterging Infections World Wate Including Noved COVID- 19 - Challenges of Sampling Infections Agents From Air and Sorthers"	Or, Ann Adhikari Associate Professor of Environmental insults Sciences at Georgie Southern University, USA	
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	Orga	nized by:	
DS		of Science & Technology, Govt. of Indi	a),
Me	erut Institute of Engin	eering & Technology, Meer	it



DST-FIST CENTER, MEERUT INSTITUTE OF ENGINEERING AND TECHNOLOGY, MEERUT



Department of Science and Technology Government of India

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. Istuti Gupta

of Meerut Institute of Engineering and Technology

has participated in the Online International Inaugural Lecture Series 2020-21
entitled "Health, Environment and Laboratory Safety" organized by DST-FIST
Center, Meerut Institute of Engineering and Technology, Meerut, India in
association with Department of Science and Technology, Government of India held
on 19th December 2020, 16th January 2021 and 20th February 2021.

E. Chakraborty

Organizing Secretary Dr. Eliza Chakraborty Head of the DST-Fist Center Prof-DBT, MIET, Meerut Coordinator
Dr. Nitin Sharma
Director, Department of
Pharmaceutical Technology
HOD-DBT, MIET, Meerut

Coordinator
Dr. Chandrabhan Seniya
Asst. Prof-DBT, MIET,
Meerut

Principal Investigator of DST-fist Dr. Mayank Garg Executive Director, MIET, Meerut

2. GUEST LECTURE

Topic: "3D Bioprinting, Bioinks, and Alternatives of Animal Models"

Presenter: Dr. Prashant Singh Chauhan, Ph. D

Designation: Strategic Business Partner, ATCG India

Discussion on: Introduction to 3D Bioprinting Technology

Applications and Innovations in Biomedical Research Future

Prospects and Developments.

Date-Monday, 4th Dec 2023.

3. AWARENESS PROGRAMMES

1. Awareness Programme on Biosafety and Lab Safety Guidelines.

Date- 1.03.2023 Time- 2:00 pm- 4:00 pm

Students: B. Tech 3rd yr Students

2. Biosafety and Lab Safety Guidelines.

Date- 25.08.2023

Students: B. Tech (BT) 3rd yr Students

3. Lab Safety Guidelines and Lab Visit

Date- 05.09.2023

Students: B. Tech (BT) 3rd yr Students

1. Name of Instrument: BD Accuri C6 Plus Flow Cytometry

Installation date: 05-10-2020

Installed by: Mr. Anjan Ghosh (8879558596)

In the presence of: 1. Dr. Nitin Sharma

- 2. Dr. Chandrabhan Seniya
 - 3. Dr. Anuj Kumar Singh
- 4. Ms. Nitika Vats
 - 6. Ms. Pinky Kothari

Trained by: Mr. Anjan Ghosh (8879558596)

- i. Training I: 05-10-2020
 - 1. Dr. Eliza Chakraborty
 - 2. Dr. Anuj Kumar Singh
- ii. Training II: 06-10-2021
 - 1. Dr. Eliza Chakraborty
 - 2. Dr. Anuj Kumar Singh
 - 3. Dr. Megha Tyagi

2. Name of Instrument: Multiskan Sky Spectrophotometer

Installation date: 10-07-2020

Installed by: Aman Arora (9715888420)

In the presence of: 1. Dr. Eliza Chakraborty

2. Dr. Anuj Kumar Singh

Trained by: I. Dr. Anil Kumar (8860318679)

Trained to: 1. Dr. Eliza Chakraborty

- 2. Ms. Shreya Agarawal
- 3. Ms. Deepika Pal

Training II. 9 to 10 Dec-2022

Trained by: Ms. Deepika Pal (7452824433)

Trained to: 1. Dr. Anurag Chaudhary

- 2. Dr. Alka Sagar
- 3. Dr. Sonia Sharma
- 4. Dr. Divya Chaudhary
- 5. Mr. Abhinav Singh
- 6. Ms. Garima
- 7. Ms. Jyoti
- 8. Dr. Alimuddin Saif
- 9. Mr. Ankit Chaudhary
- 10. Mr. Nilay K Nandi
- 11. Dr. Prabhash Nath Tripathi
- 12. Dr. Shweta Dumoga

4. INSTRUMENT INSTALLATION AND TRAINING DETAILS

3. Name of Instrument: Gas Chromatography

Installation date: 13-10-2020

Installed by: Mr. Abhishek Singh (8882311727)

In presence of: 1. Dr. Avadhesh Singh Pundir

Trained by: Mr. Abhishek Singh (8882311727)

Trained on: I 16-12-2022

Trained to: 1. Dr. Udai Pratap Singh

- 2. Dr. Anurag Chaudhary
- 3. Dr. Neha Singh
- 4. Dr. Prabhash Nath Tripathi
- 5. Ms. Deepika Pal

I. Patents:

- 2. Patent Application No 202331047408 (In-vitro fusion Bio-matrix coated on paper), July 2023 (online) and Published.
- 3. Patent Application No 202131017742 (A Bio-Matrix Obtained from Astragalus Gummifer (Gond Katira) Coating Cell Culture to Sustain Growth in Animal Cell Culture), April 2021 (online) and Published
- 4. Patent Application No 202111018396 (A Bio-Matrix Composition Obtained from Astragalus Gummifer (Gond Katira) To Sustain Growth in Animal Cell Culture), April 2021 (online) and Published.
- 5. Patent Application No 202031040945 (A Potential Natural Bio-Matrix from Aloe Vera Gel for Sustaining Growth of Adherent Cells in Animal Cell Culture), Sept. 2020 (online) and Published.
- 6. Patent Application No 202031040946 (A Bio-Matrix Composition from Linum usitatissimum to Sustain Growth in Animal Cell Culture and Process of Preparing the Same), Sept. 2020

 (online) and Published.

 MEERUT INSTITUTE OF ENGINEERING & TECHNOLOGY

• B.Tech Students 2 Patent filled (2023)

Portable Diagnostic tool



Fig 1. Observation of L929 cell line growth on Paper Matrix at 20X under the IX73 Olympus Microscope.



Fig 2. (.4%) NDEA drug, at One (1) hour Observation of L929 cell line growth on Paper Matrix at 20X under the IX73 Olympus Microscope.

Alternative of Animal Model

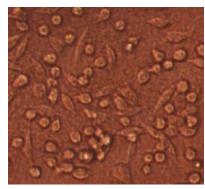


Fig 3. Observation of L929 cell Spheroid Formation with 1X 73 Olympus microscope under 20X

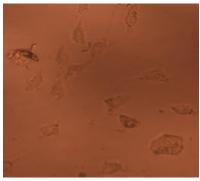


Fig 4. (1%) NDEA drug, at 1 hr. observation of L929 cell line growth of (Astragalus Gummifer) Fusion Matrix at 20X under the IX73 Olympus Microscope.

6 Patents Pending (Outcome of B.Tech Projects)

- II. Papers Published:
- 1. Hydrogel-based tissue engineering and its future applications in personalized disease modeling and regenerative therapy Journal -Springer Nature, Authors Name: Shikha Chaudhary & Eliza Chakraborty https://doi.org/10.1186/s43088-021-00172-1
- 2. Editorial: Advancement in Cancer Stem Cell Biology and Precision Medicine. Journal Frontiers, Authors Name: Nikhil Baban Ghate, Vicky Yamamoto, and Eliza Chakraborty. https://doi.org/10.3389/fcell.2022.890129
- 3. Optimizing aseptic and serum milieu for the isolation of human whole umbilical cord tissue-derived mesenchymal stem cells.

 Journal Springer Nature, Authors Name: Shikha

 Chaudhary, Suyash Sharma, Jeswin John, Namrata Tyagi, Kunal

 Mishra & Yogita Saragade. https://doi.org/10.1186/s43088-022-00308
- 4. Studies on Optimization of Parameters for Extraction of Total Phenolic Content From Terminalia Arjuna". Authors Name- Kunal Kapoor, Deepika Pal, Vijay Rajesh Andanamala, Sandeep Sirohi, CHNOLOGY And Surya Prakash 2022.

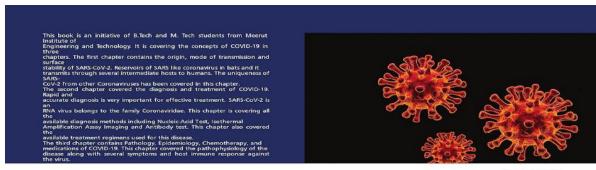
https://doi.org/10.47750/ppr.2022.13.510.261

- 5. Potential role of Hydrogel and its future applications in *in-vitro* organ development. Authors Name- Adesh Nautiyal, Riya Tyagi, Deepika Pal and Eliza Chakraborty. May 2023 https://www.ijnrd.org/papers/IJNRD2305644.pdf
- 6. Design, Synthesis, Anti-cancer activities, and Comparative molecular docking studies of Novel class of 7-azaindole analogs as potent PARP-1 inhibitors. Authors Name- Neha Sharma, Anurag Chaudhary, Monika Sachdeva.

 Doi:10.5530/ijper.58.2.70
- 7. Stemformatics and its potential role in future translational applications in CRISPR Cas 9 Gene with GATA-1, 2. Authors- Deepika Pal, Utkarsh Tyagi, Udit Narayan Sharma and Eliza Chakraborty (2024). https://ijcrt.org/viewfulltext.php?&p id=IJCRT2403311
- 8. "Biomaterial: Fascinating Reservoir for Future Stem Cell-Based Therapy" Authors- Deepika Pal ^{1, 2*}, Ayushi Chauhan^{1*}, Vanshika Rana^{1*}, Archit Mohan Shukla^{1*}Akshaya Prakash^{1*}, Drishti Dhall^{1*}, Raxit Tyagi^{1*}and Eliza Chakraborty^{1, 2**} (2024). https://doi.org/10.5281/zenodo.10953587.

III. B. Tech Student's Book Published:

Eliza Chakraborty et.al, Book title: Blueprint of Covid-19 Pandemic, Nov 2020, Academic Publishing, Germany, ISBN No: 978-6203-02798-3



Rajshree Chakraborty



Status of Covid-19 Pandemic, 2020





The Contributors are Udit Narayan Sharma, Taniya, Zaiba Firoz, Tushar Gupta, Kunal Kapoor, Anju Gond. Alshwarya Sharma and Rachna Rani from Miet. Miss Shiyi Sharma and Shefali Maheshwari from Hindustan College of Science & Technology, I also thank Dr. Rajashree Chakraborty (KIIT University, School of Biotechnology) for her support.



IV. Conferences:

- 1. Invited lecture on Stem Cells and Tissue..... IABSCON 2020 Advances in Biomedical Research from Basics to Translation 9th annual International Conference of Indian Academy of Biomedical Sciences, 27th to 29th Feb 2020, D.Y. Patil Medical College, at Sayaji Hotel, Kolhapur Maharashtra.
- 2. Invited lecture on "Pandemic Aftermath for Betterment of Human Life" In An International Conference on Pandemic and Its Aftermath, 8 th-10th Nov 2020 organized By the Department of Chemistry, Christ Church College, Kanpur
- 3. Indian Academy of Biomedical Sciences, IABSCON, (7 8 May 2022) organized by The Department of Biochemistry, King George Medical University, Lucknow, and Era University, Lucknow. Title: Recent Trends in Biomedical Research: Current Challenges & Future Prospects. Authors Name: Sanyam Taneja, Anjali Verma, Shweta Chaudhary, Deepika Pal, and Eliza Chakraborty.

- 4. Challenges & opportunities in Food, Pharma, and Biotechnology, (15-17 Sep 2022) organized by Dr. A.P. J Abdul Kalam Technical University, Lucknow, and Seth Vishambhar Nath Group of Educational Institute, Lucknow. Title: Inhibition of In vitro Rhipicephalus Microplus Infection by Exploiting Mahua Longifolia Extracts, Author name: Deepika Pal, Eliza Chakraborty & Jaydip Parmar.
- 5. 108th Indian Science Congress (3-7 Jan 2023) organized by RTM Nagpur University, NagpurTitle: The Role of Biomarkers, Stem Cell and Stemformatics in Modern Translational Medicine. Author Name: Chandrabhan Seniya and Eliza Chakraborty*
- 6. The potential of indigenous medicinal plant extracts for Acaricidal activity against R.microplus under in-vitro conditions. "3rd ICMSE-2023 Organized by NIT- Jalandhar 2023. Authors Name- Deepika Pal, Jaydip Parmar, Sandeep Sirohi, and Eliza Chakraborty
- 7. Silver Nanoparticles synthesized from the seed of Myristica fragrans extracts Optimization, Characterization, and antibacterial activity. "3rd ICMSE-2023 Organized by NIT- Jalandhar 2023.
- 8. Invited as Resource person in one day Online Workshop on "Biological Waste disposal" Jointly by the Department of Botany, Department of Zoology, and Department of Chemistry under the DBT Star College Scheme of Durgapur Government College on 4th June 2024

V. Thesis Submitted:

i. Graduation Thesis (B. Tech)

1. Title: "Different Biomatrix-Based Organ Regeneration and Tissue Engineering"

Student Name: Kunal Kapoor and Tushar Gupta (2017- 2021)

2. Title: Application of Biomatrix in in-vitro Tissue Engineering

Student Name: Taniya and Udit Narayan Sharma (2017- 2021)

3. Title: "Future Application of Hydrogel-based Matrix in 3D Cell Culture"

Student Name: Sanyam Taneja and Anjali Verma (2018-2022)

4. Effect of different cryogenic conditions on biomatrix-based in-vitro screening models.

Students name: Archit Mohan Shukla, Ayushi Chauhan and Vanshika Rana (2019-2023)

- V. Thesis Submitted:
- ii. Post-Graduation Thesis
- 1. M. Tech Thesis Title: "Evaluation of the Acaricidal Activity of Indigenous Medicinal Plants Extracts against Cattle Ticks under *in-vitro* Condition"

Student Name: Deepika Pal

2. MSc Thesis Title: "Explore Plant Based Biomatrix to Develop vitro Screening Model and its Future Applications as an Alternative to Animal Model

Student Name: Shweta Chaudhary

3. Title: "In Silico Screening of Flavonoids by SARS CoV-2& its Future Applications"

Student Name: Ms. Vandita Baliyan

4. Title: Exploring plant-based biomatrix to develop *in-vitro* drug screening model with mammalian cancer cell line.

Student Name: Mr. Adesh Nautiyal

5. Title: Exploring fusion matrix-based in-vitro drug screening model and its future applications as an alternative animal models.

Ctudent name Dies Trans

Ph. D thesis work going on

2021- Going on

Ms. Shivi Sharma.

2024

One M. Sc student project going on in 2024.

Three students B. Tech Project going on 2024

10PG (M. Pharm, M. Sc.) projects going on.

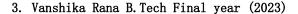
Students Placement direct from DST-Fist Center, MIET.

1. Kunal Kapoor M. Tech 1st year (2021)

Appointed as Senior Officer at Indian Immunologicals Ltd., Telangana, India.

2. Ayushi Chauhan B. Tech final year (2023)

Appointed as Trainee at the Diagnostic division at J.Mitra & Co. Pvt. Ltd., New Delhi.



Appointed as Trainee at the Diagnostic division at J.Mitra & Co. Pvt. Ltd., New Delhi.

4. Adesh Nautiyal M. Sc. Final year (2023)

Appointed as Executive in QC Department at J.Mitra & Co. Pvt. Ltd., New Delhi.









AWARDS

1. BHARAT GAURAV PURASKAR

KTK OUTSTANDING ACHIEVERS AND EDUCATION FOUNDATION Presents BHARAT **GAURAV PURASKAR** Prof. (Dr.) Eliza Chakraborty FOR OUTSTANDING ACHIEVEMENTS AND REMARKABLE CONTRIBUTION IN THE FIELD OF BIOMEDICAL SCIENCES On 24th July, 2022 at New Delhi

2. BEST EDUCATIONIST AWARD



Media coverage

DST- FIST Center Inauguration (2019-2020)

बायोटेक्नोलॉजी के छात्रों को रिसर्च के लिए मिली डीएसटी एफआईएसटी एडवांस रिसर्च लैब

बुलन्द वाणी • संवाददाता

मेरठ। विज्ञान और प्रौद्योगिकी विभाग भारत सरकार द्वारा विज्ञान एवं तकनीक के क्षेत्र में अनुसंधान और विकास को बढ़ावा देने के उद्देश्य से एडवांस बायोटेक्नोलॉजी इंस्ट्रमेंट रिंसर्च लैब का उद्घाटन एमआईईटी में किया गया। डीएसटी एफआईएसटी एडवांस रिसर्च लैब का उद्घाटन एमआईईटी ग्रुप के चेयरमैन विष्णु शरण, वाइस चेयरमैन पुनीत अग्रवाल, डायरेक्टर डॉ मयंक गर्ग, डीन एकेडिमक डॉ डीके शर्मा ने संयुक्त रूप से फीता काटकर किया।

डीएसटी द्वारा एमआईईटी के बायोटेक्नोलॉजी विभाग को योजना के तहत 50 लाख रुपए का अनुदान विकास गतिविधियों को बढावा देने इसमें शिक्षकों, शोधार्थियों समेत दिया जाएगा।



और विश्वविद्यालयों और अन्य एमटेक व बीटेक छात्रों को रिसर्च बायो टेक्नोलॉजी विभाग के शैक्षणिक संस्थानों में नई प्रतिभाओं को विभागाध्यक्ष डॉ नितिन शर्मा ने बताया आकर्षित करने के लिए बुनियादी गया है। इसके लिए छात्रों के पास की विज्ञान और प्रौद्योगिकी के ढाँचा और सक्षम सुविधाएं प्रदान स्वस्थ्य, एनर्जी व मैटिरियल पर शोध बुनियादी ढांचे में सुधार के लिए करना है। न्यूनतम रिसर्च एंड से जुड़ा कोई प्रोजेक्ट हो तो वह भी करना है। न्यूनतम रिसर्च एंड से जुड़ा कोई प्रोजेक्ट हो तो वह भी डेवलपमेंट उपयोगी इंस्ट्रमेंट भारत यहां पर आकर काम कर सकते हैं। सरकार के अनुदान द्वारा खरीदे गए हैं, जिससे कैंसर जैसी गंभीर बीमारियों पर रिसर्चर कार्यक्रम भी छात्रों के लिए किया गया। इस योजना का उद्देश्य नए रिसर्च करने में मदद मिलेगी। शोध के और उभरते क्षेत्रों में अनुसंधान और प्रति छात्रों का रूझान बढ़ाने के लिए

कार्य से जुड़ने के लिए आर्मेत्रित किया उन्होंने बताया कि इसके साथ ही यंग जल्द शुरू किया जाएगा। साथ ही छात्रों का नाम भी रिसर्च जर्नल्स में



INDUSTRIAL TALK

Discussion on: Introduction to 3D Bioprinting Technology Applications and Innovations in Biomedical Research Future Prospects and Developments. (2023)

Presenter: Dr. Prashant Singh Chauhan, Ph.D

Designation: Strategic Business Partner, ATCG India.





Industrial Talk (Press Released)

थ्री डी बायोप्रिंटिंग से अंग प्रत्यारोपण के लिए अंगों की कमी की समस्या का होगा हल : डॉ प्रशांत सिंह चौहान

एमआईईटी में नवीनतम तकनीक पर विशेष व्याख्यान

सियासत ब्यूरो/मेरठ

www.siyasatdaily.com

एमआईईटी के बायोटेक्नोलॉजी विभाग ने 3डी बायोप्रिंटिंग जैसी नवीनतम तकनीक पर व्याख्यान का आयोजन किया गया। एटीजीसी बायोटेक प्राइवेट लिमिटेड कंपनी से डॉ प्रशांत सिंह चौहान ने कहा की 3डी बायोप्रिंटिंग एक ऐसी तकनीक है जिसके जरिए बायोइंक और बायोमटेरियल के जरिए जैविक संरचनाएं और अंग बनाए जा सकते हैं। ये संरचनाएं बिल्कल शरीर के प्राकृतिक अंगों की तरह काम करने में सक्षम हैं। इस तकनीक का उपयोग करके गरीर के विभिन्न उतकों का पनर्निर्माण किया जा सकता है। जिसका प्रयोग हड्डी, त्वचा आदि है। इस तकनीक का सबसे महत्वपूर्ण साल पांच लाख से अधिक लोगों को डॉ. नेहा सिंह, डॉ. सचिन तोगर, डॉ.



ऊतकों से संबंधित विकारों को ठीक उपयोग प्रत्यारोपण के लिए अंगों की प्रत्यारोपण के लिए अंगों की कमी की अंकेश पांडेय, डॉ. नीतिका वत्स आदि

करने में सफलतापूर्वक किया जा रहा कमी की समस्या को हल करना है।हर समस्या का सामना करना पड़ रहा है। उपस्थित रहे।

ऐसे में यह सिस्टम जल्द ही इस समस्या का एक बहुत अच्छा विकल्प साबित होगा।

साथ ही, यह चिकित्सा अध्ययन में पश मॉडल की आवश्यकता को भी काफी कम कर देता है। यह सिस्टम एक बहत अच्छा विकल्प है। पश मॉडल की यह तकनीक भविष्य में और भी अद्भृत और सुरक्षित स्वास्थ्य सेवाएं देने का वादा करती है। डॉ. प्रशांत ने इस तकनीक की समस्या और इसके बहुआयामी अनुप्रयोगों को बहुत ही सरल तरीके से विस्तार से समझाया। इस दौरान संस्थान के निदेशक बजेश सिंह, डीन संजीव चौहान, एचओडी डॉ. अविनाश सिंह,डॉ. एलिजा चक्रवर्ती. डॉ आशिमा कथुरिया, डॉ. गौरव मिश्रा,

एमआईईटी के बायोटेक्नोलॉजी विभाग में 3डी बायोप्रिंटिंग जैसी नवीनतम तकनीक पर विशेष व्याख्यान

कलम की ललकार

मेरठ। एमआईईटी के बायोटेक्नोलॉजी विभाग ने 3डी बायोप्रिंटिंग जैसी नवीनतम तकनीक व्याख्यान का आयोजन किया गया। एटीजीसी बायोटेक प्राइवेट लिमिटेड कंपनी से डॉ प्रशांत सिंह चौहान ने कहा की 3डी बायोप्रिंटिंग एक ऐसी तकनीक है जिसके जरिए बायोइंक बायोमटेरियल के जरिए

जैविक संरचनाएं और अंग बनाए जा सकते हैं। ये संरचनाएं बिल्कल शरीर के प्राकृतिक अंगों की तरह काम करने में सक्षम हैं। इस तकनीक का उपयोग करके शरीर के विभिन्न ऊतकों का पनर्निर्माण किया जा सकता है। जिसका प्रयोग हड़ी. त्वचा आदि ऊतकों से संबंधित विकारों को ठीक करने में अध्ययन में पशु मॉडल की सफलतापर्वक किया जा रहा है। इस तकनीक का सबसे महत्वपूर्ण उपयोग प्रत्यारोपण के लिए अंगों की अच्छा विकल्प है। पशु मॉडल की कमी की समस्या को हल करना है। यह तकनीक भविष्य में और भी



करना पड रहा है। ऐसे में यह सिस्टम जल्द ही इस समस्या का एक बहुत अच्छा विकल्प साबित

साथ ही, यह चिकित्सा आवश्यकता को भी काफी कम कर देता है। यह सिस्टम एक बहुत

अद्भत और सुरक्षित स्वास्थ्य सेवाएं देने का वादा करती है। डॉ. प्रशांत ने इस तकनीक की समस्या और इसके बहुआयामी अनुप्रयोगों को बहुत ही सरल तरीके से विस्तार से समझाया

इस दौरान संस्थान के निदेशक बजेश सिंह, डीन संजीव चौहान एचओडी डॉ. अविनाश सिंह,डॉ. एलिजा चक्रवर्ती. डॉ आशिमा कथरिया. डॉ. गौरव मिश्रा. डॉ. नेहा सिंह, डॉ. सचिन तोमर, डॉ. अंकेश पांडेय, डॉ. नीतिका वत्स आदि उपस्थित रहे।

Invited as Resource person in one day Online Workshop on "Biological Waste disposal" Chemistry under DBT Star College Scheme of Durgapur Government College on 4th June, 2024

https://www.youtube.com/watch?v=ojfNy1L1uxc



Invited Speaker and Chairperson at 108th Indian Science Congress, RTM Nagpur University, Nagpur (2023)



Invited Speaker





Chair Person

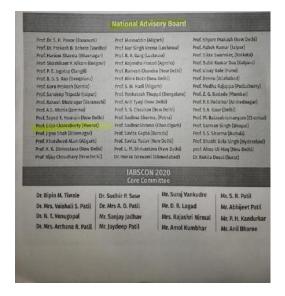


MEMBER OF THE **NATIONAL ADVISORY BOARD** AND **INVITED LECTURER** AT THE 9TH INTERNATIONAL CONFERENCE OF IABSCON AT D.Y. PATIL MEDICAL COLLEGE, KOLHAPUR, MAHARASHTRA (2020)











INVITED GUEST LECTURE ON **ADVANCED STEM CELL THERAPY AND APPLICATIONS** AT MEDICAL COLLEGE AND HOSPITAL, SAHARANPUR (2021)





स्टेम सेल थेरेपी से गंभीर बीमारियों का इलाज संभव

सरसावा। राजकीय मेडिकल कॉलेज में स्टेम सेल थैरेपी पर व्याख्यान आयोजित हुआ। प्रोफेसर एलिजा चक्रवर्ती ने कहा कि डिमेशिया, ऑटिजम, मल्टिपल स्क्लेरोसिस और सेरेब्रल पालसी बीमारियों का इलाज अब स्टेम सेल थैरेपी से संभव है।

मेडिकल कॉलेज व इंडियन इंस्टिट्यूट ऑफ टेक्नोलॉजी रुड़की सहारनपुर के तत्वाधान में स्टेम सेल थेरेपी पर कॉलेज के सभागार में व्याख्यान आयोजित हुआ। मेरठ इंस्टिट्यूट ऑफ़ इंजीनियरिंग एंड टेक्नोलॉजी की प्रोफेसर एलिजा चक्रवर्ती ने एमबीबीएस की पढ़ाई कर रहे छात्र-छात्राओं व कॉलेज की सीनियर फैकल्टी को संबोधित किया। स्टेम कोशिका या मूल कोशिका ऐसी



प्रोफेसर एलिजा चक्रवर्ती।

कोशिकाएं होती हैं, जिनमें शरीर के किसी भी अंग को विकसित करने की क्षमता होती है। इसके साथ ही ये शरीर की दूसरी कोशिका के रूप में भी ख़ुद को ढाल सकती हैं। कार्यक्रम की शुरुआत प्राचार्य डॉ अरविंद त्रिवेदी, प्रोफेसर एलिजा चक्रवर्ती व डॉ राकेश शम ने दीप प्रज्जबलित कर की। मैंके पर डॉ मनोज सिंह, डॉक्टर संजीव दवे, डॉक्टर गगन गर्ग, डॉक्टर दिव्या

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CHIEF PATRON IABS Satellite International Conference On Chairman MET Group of Institutions Interface of Pictochyn Johns John

Interface of Biotechnology & Modern Medicine in Collaboration with MIET, Meerut 24° Feb 2020

International Speakers



Prof. Lindsay Brown,
Professor (Biomedical Sciences)
School of Health and Wellbeing
sportly of Southern Quadrisland



Prof. Suresh C. Tyagi Stodghill endowed Chair in Biomedical Sciencoss, & Vice Chair of Research University of Louisville, School of Medicine, Kentucky, USA



Prof. Dr. Hart S. Sharma, institute for Cardiovascular Research VUme, University Medical Center Aresterdam The Netherlands

CALL FOR ABSTRACT

MIET Biotechnology Society (MBS) invites abstracts on the topics under following themes for poster / oral presentations during technical sessions.

DURATION OF THE SEMINAR

This is a One-Day program scheduled on 24th February, 2020 (Monday) and will be conducted in different sessions from 9.30 am to 5.00 pm on the day.

THEMES

- ⇒ Molecular Microbial Technology in Diagnostics
- ⇒ Biotechnology in Healthcare
- ⇒ Translational Medicines

⇒ Artificial Intelligence in Healthcare GUIDELINES FOR ABSTRACT SUBMISSION

Content: The abstract should clearly define the objectives of the study along with methodology used / proposed to use for achieving the desired aims.

Style: Documents should be a MS-Word, double-spaced, single-column manuscript, with wide margins, minimum 11 pt. Times New Roman. Length: 250 – 350 words

All the abstracts should be sent on email id: iabsmiet20@gmail.comon or before 21× February, 2020.

- FOR INTERNET BANKING USERS:

 *Payee Name: MIET BIOTECHNOLOGY SOCIETY
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Alternatively, Candidate may also register themselves by sending the duly filled registration form along with the Demand Draft drawn in favour of MIET Biotechnology Society' payable at Meerul and send it to The Organizing Secretary, IABS Statellite International Conference on Interface of Biotechnology & Modern Medicine in Association with Meerut, Meerul Institute of Engineering and Technology, Meerul (1.0.1) Alonda

IMPORTANT DATES

- ⇒ Last Date of Registration : 23st February, 2020 (on spot registration is also available)
- ⇒ Last date for submission of abstract : 21st February, 2020
- Date for intimation of acceptance of abstract (Oral / Poster): 21th February, 2020

REGISTRATION FEES

- Student: Rs. 300/- Spot Registration Rs. 850/-
- Faculty/ Scientists/ Industry Personnel: Rs. 750F Till 22rd February.

ADDRESS FOR CORRESPONDENCE

Prof. Eliza Chakraborty (Department of Biotechnology)

Organizing Secretary, IABS Satellite International Conference on Interface of Biotechnology & Modern Medicine
Meerut Institute of Engineering & Technology

N.H. 58, Delhi-Roorkee Highway, Baghpat Road Bypass Crossing Meerut - 250005. Uttar Pradesh (India) Email: iabsmiet20@gmail.com Website: www.miet.ac.in

INTERNATIONAL COLLABORATOR



- Dr. Vicky Yamamoto Department of Otolaryngology-Head and Neck Surgery, Keck School of Medicine, University of Southern California (USC), Executive Director of Society for Brain Mapping and Therapeutics, Los Angeles, CA 90033, USA.
- Collaborator of Prof. Eliza Chakraborty, HOD DST-Fist Center, MIET.

Publication with US Collaborator



EDITORIAL published: 25 March 2022 doi: 10.3389/fcel.2022.890129



Editorial: Advancement in Cancer Stem Cell Biology and Precision Medicine

Nikhil Baban Ghate 1*, Vicky Yamamoto 2,3,4,5* and Eliza Chakraborty 6*

Department of Biochemistry and Molecular Medicine, Nortis Comprehensive Cancer Center, University of Southern California, Los Angeles, CA, United States, "Society for Brain Mapping and Therapeutics (SBMT), Los Angeles, CA, United States, "Brain Mapping Foundation (BMF), Los Angeles, CA, United States, "The USC Caruso Department of Otolaryngology-Head and Nock Surgery, USC Keck School of Medicine, Los Angeles, CA, United States, "USC-Norris Comprehensive Cancer Center, Los Angeles, CA, United States, "Department of Biotechnology, DST-FIST Center, Meerut Institute of Engineering and Technology, Maerut, India

Keywords: cancer stem cell, metastasis, head and neck cancer, tumor microenvionment, squamous cell carcinama

Ghate, N. B., Yamamoto, V., & Chakraborty, E. (2022). Editorial: Advancement in Cancer Stem Cell Biology and Precision Medicine. Frontiers in Cell and Developmental Biology, 10. https://doi.org/10.3389/fcell.2022.890129. Impact Factor: 6.6

PROPOSED COLLABORATION WITH RUSSIA

Title: Prostate Cancer Detection using Carbon Nanotube Biosensor by Exploiting a urine-based stage-dependent Metabolomic Marker.

Dr. Maxim from the Department of Biomedicine and Nanotechnology at Southwest State University, Kursk, Russia.

SELECTED ALUMNI OF DST- FIST CENTER



Department of Biotechnology

<u>ALUMNI MEET</u> "03-1-2024"



Akshay Charan (2019), Pursuing Ph.D from George Mason University, Varginia, USA



Chitra Yadav, (2020) MS Oxford, Researcher at University of Cambridge,



Prankur Jain, (2019) MBA IIM, Sirmaur, Senior Management Traniee, TresVista, Bengaluru



Udit Narayan, (2021) M.Tech (JRF), IIT Roorkee



Department of Biotechnology

"03-01-2024"



Harshal Kumar, (2017) Head of R&D and Operations at Levram Lifesciences Pvt. Ltd. Mumbai



Namrata Tyagi, (2016) Pursuing Ph.D IIT Delhi and Bio- Incubation Manager, Cmie, AIIMS, Delhi



Jasmine Gupta, (2020) Scientist at Biocon Biologics





Thank you for your kind attention!