



## International webinar on “Stem cell and gene editing in microgravity research and future scope.”

### Event Description:

This webinar on the topic “Stem cell and gene editing in microgravity research and future scope.” was organized by The Department of Botany, CUTM from 5<sup>th</sup> March, 2022.

**RECENT ADVANCES IN APPLIED SCIENCES WEBINAR SERIES**

**INTERNATIONAL WEBINAR ON:  
Stem cells & Gene editing in Microgravity Research and future scope**

ORGANIZED BY -  
Department of Botany, SoAS, CUTM  
IN ASSOCIATION WITH -  
Center for Genetics & Genomics

**Mar 05 Saturday**  
03.00 pm IST

Join Zoom Meeting :  
<https://us02web.zoom.us/j/824377199112?pwd=MVpsTjlseEkwajNlSmpucDRlMDE3Zz09>

Meeting ID: 824 377 19911  
Passcode: 391859

Click on the link below to register for the certificate :  
<https://www.cutm.ac.in/academic-affairs/online-course>

For queries contact:  
Dr. Rukmini Mishra,  
Associate Professor and Head,  
Department of Botany, SoAS, CUTM  
E-mail: [rukmini.mishra@cutm.ac.in](mailto:rukmini.mishra@cutm.ac.in)

**Our Speaker:**

**Dr. Aviseka Acharya**  
Space Biologist, Science Entrepreneur & Mentor  
Institut für Neurophysiologie  
der Universität zu Köln,  
Köln, Germany

With more than 14 years of research experience (industrial and academic), Dr. Aviseka is one of the most conversant researchers in his field of molecular stem cell biology. Currently, he is investigating the effects of long & short-term  $\mu g$  &  $hg$  on induced pluripotent stem cells (iPSCs) for cardiovascular biology and model diseases "in a dish" with precise genome editing technologies advanced CRISPR/Cas. His recent works are developing nanoparticle coated air purifier.

**centurion university of technology and management**  
Shaping Lives... Empowering Communities...

Anita Patra



Dr. Anita Patra, Registrar, CUTM

Rukmini Mishra



Convener

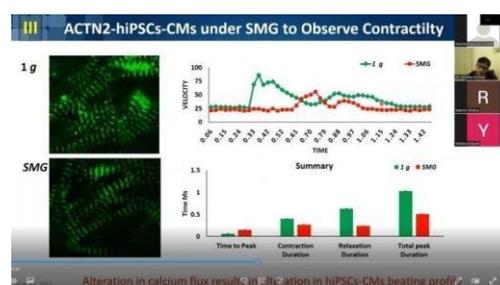
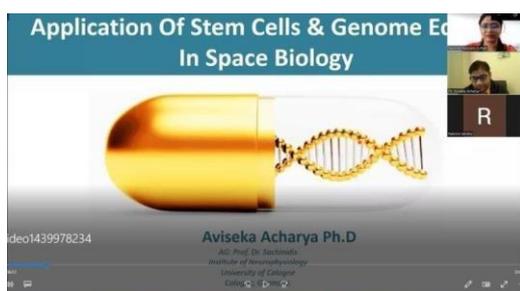
## A Report on the International webinar on on “Stem cell and gene editing in microgravity research and future scope.” 5<sup>th</sup> March, 2022

### Participants:-83

The Department of Botany, School of Applied Sciences in association with the research center Center for Genetics and Genomics organized an international webinar entitled “**Stem cell and gene editing in microgravity research and future scope**” on 5<sup>th</sup> March 2022. The webinar was conducted to bring awareness among the students and faculty members of the recent advances in the field of plant and animal sciences like stem cell and genome editing research and their applications. The webinar was moderated by Miss Sunanya Das, research scholar, Dept. of Botany. The invited speaker Dr. Abhishek Acharya, a space biologist in University of Cologne, delivered a talk on the above topic. In the inaugural session, Dr. Rukmini Mishra, HoD, Botany Department, presented the welcome address. Dr. Yashaswi Nayak, Dean, School of Applied Science, addressed the session. The webinar aimed to educate the participants about

Dr. Abhishek Acharya has 14 years of bio-research experience (industrial and academic) in the field of molecular stem cell biology. Currently, he is investigating the effects of long- & short-term  $\mu$ g & hg on induced pluripotent stem cells (iPSCs) for cardiovascular biology and model diseases "in a dish" with precise genome editing technologies advanced CRISPR/Cas9. He has more than 20 research publications in both national and international repute. During his talk, he emphasized the importance of CRISPR/Cas9 genome editing technology and stem cell research. Also, he discussed on formation cardiovascular cell from stem cells in microgravity using simulations in parabolic flight.

Dr. Rukmini Mishra, Head of Department, Botany, School of Applied Sciences, presented the vote of thanks by expressing her gratitude to the chief speaker. She also thanked all the students and faculty present in the webinar from different campuses to make it an interactive session. More than 25 faculty and 102 students attended the seminar.



Brief Overview on CRISPR/Cas9 genome editing technology and stem cell research

*Anita Patra*



**Dr. Anita Patra, Registrar, CUTM**

*Rukmini Mishra*



**Convener**



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Sl.NO	Name	Regd. No.	Absent/Present
1	KAUSTUVA PRASAD DAS	180301110001	P
2	ASHISH PATEL	180301110002	P
3	ABHISEK MISHRA	180301110003	P
4	SUDHANSU KUMAR BEHERA	180301110004	P
5	ANSUMAN MOHAPATRA	180301110005	P
6	BIBHU DHAL	180301110006	P
7	M SANDEEP	180301110007	P
8	KUMAR ABHISHEK	180301110008	P
9	JIDAN SUREN	180301110009	p
10	SATYAJIT KHUNTIA	180301110010	p
11	ASHUTOSH BHAKTI BEDANTA	180301110011	p
12	JANMANJAYA BAGARTY	180301110012	p
13	RENUKARATNAMANJARI PRADHAN	180704190026	P
14	Ashish Kumar Behera	<b>180704190027</b>	P
15	SANDEEP KUMAR NAYAK	180704190028	P
16	SANCHARIKA PARIJA	180704190029	P
17	Ankit Patra	<b>180704190030</b>	P
18	ADYASHA SWAIN	180704190031	P
19	SMRUTI AMLAN DAS	180704190033	P
20	ANIL SETHY	180704190034	P
21	SUNITA GOCHHAYAT	180704190035	P
22	GARGEYA KUMAR NAIK	180804130001	P
23	MUKESH KUMAR SAHOO	180804130002	p
24	REDDY BAPI RAJU	180804130003	p
25	AKASH KUMAR NAYAK	180804130004	p
26	ABINEET SAHOO	180804130005	p
27	MANASH RANJAN BEBARTA	180804130006	P
28	Sibasish padhi	180804130091	P
29	Asish Kumar padhi	180804130092	P

30	Divyanshu	180804130093	P
31	Subhra Pratik Behera	180804130094	P
32	Tapas Kumar swain	180804130095	P
33	Chandan sahu	180804130096	P
34	Priyanka Priyadarshini	180804130098	P
35	Aishwarya polaki	180804130099	P
36	Prabina kumar meher	180804130100	P
37	Ankush patnaik	180804130101	p
38	N., pavani priyanka	180804130102	p
39	P Sravanthi	180804130103	p
40	S.Sai Rajasree	180804130104	p
41	Niladri Bihari Mohanta	180804130105	P
42	K.Priyanka Achary	180804130107	P
43	G.umadevi	180804130108	P
44	B Syamala	180804130109	P
45	Bikash Kumar Meher	180804130110	P
46	Paresh priyadarshan Nayak	180804130111	P
47	Sumit kumar meher	180804130114	p
48	Hema preethi	180804130115	P
49	Soumya Swarupa Biswal	180804130116	P
50	Deepshikha Mahalik	180804130117	P
51	Ankita Ghosh	180804130119	p
52	N.bharatha simha Reddy	180804130120	p
53	Sandhya Rani samal	180804130121	p
54	Toufik Qureshi	180804130122	p
55	Smrutishree sethi	180804130123	P
56	P. Sai Sarvani	180804130124	P
57	Santosh Kumar raulo	180804130126	P
58	SAGARIKA DAS	180804130127	P
59	Hasantika Behera	180804130128	P
60	Balakrushna Pradhan	180804130129	P
61	Iks.gayathri	180804130130	P
62	K.Gayathri	180804130131	P
63	Deepsikha Thakur	180804130132	P
64	Lopamudra Sethi	180804130133	p
65	Sritam Kumar Nayak	180804130134	p
66	Nitish Chyau Pattnaik	180804130136	p
67	Nirmal karan	180804130137	p
68	Ch.Navyasree	180804130138	p
69	Reetesh singh	180804130139	P
70	SURAJ KUMAR PRADHAN	180804130141	P
71	Abhipsa Nanda	180804130142	P

72	Sk. Md ARSHAD ALI	180301160002	P
73	SUJIT KUMAR ROUT	180301160003	P
74	SANYASH CHANDRA BHAGAT	180301160004	P
75	SIBASUNDAR MIRDA	180301160005	P
76	UJJWAL KUMAR PRASAD	180301160006	P
77	PRABHU PRASAD DAS	180301160007	P
78	ASHIS KUMAR SAMAL	180301160008	P
79	PRITIRANJAN PATTANAİK	180301160009	p
80	MD OLID ILIYAS	180301160010	p
81	ABHISEKH PATRA	180301160011	p
82	SOUMYARANJAN SAHU	180301160012	p
83	SOUMYA RANJAN DAS	180301160013	P

*Anita Patra* 

**Dr. Anita Patra, Registrar, CUTM**

*Rukmini Mishra* 

**Convener**