


Mahatma Phule Shikshan Sanstha's
Karmaveer Bhaurao Patil College, Urun-Islampur
Department of Biotechnology (Entire)

Notice

Department of Microbiology is organizing Guest Lecture by on 18/03/2025 at 11.00 am. She will discuss on "Genetic Engineering". All the students of B. Sc. Biotechnology (Entire) are instructed to remain present for the same.

Venue : G-14 Hall


Head
Department of Microbiology
Karmaveer Bhaurao Patil College
Urun-Islampur, Dist-Sangli-415402

महात्मा फुले शिक्षण संस्थेचे

कर्मवीर भाऊराव पाटील कॉलेज, उरुण-इस्लामपूर

ता. वाळवा, जि. सांगली, पिन - ४३५ ४०९

■ स्थापना : १९६१



■ फोन : कार्यालय -(०२३४२)२९९४७२

■ E-mail : kbpisl_comp@yahoo.co.in / kbpislampur@gmail.com

■ Reaccredited by NAAC with 'A' Grade (CGPA 3.17)

■ जुनि. कॉलेज कोड- २२ ११.००१ ■ जुनि. कॉलेज मान्यता क्रमांक : एच.एस.सी./१९७६-१८९७२-९ (एस. वाय.) दि. ०७/०५/१९७६

प्रा.(डॉ.) नितीन शिंदे

M.Sc., M.Phil., Ph.D

प्राध्यापक

जा. क्र.

दिनांक : / / २०२

LETTER OF INVITATION – AS A RESOURCE PERSON

To,
Smt. S.D.Kadam,
Assistant Professor, Department of Microbiology
Sadguru Gadage Maharaj College, Karad

SUBJECT- RESOURCE PERSON.....

Respected Madam,

I would like to invite you as a resource person for the guest lecture organized by B.Sc. Microbiology in the K. B. P. College, Urun-Islampur on 18/03/2025 at 11.00 am. on the subject "Genetic Engineering". Please accept the same and communicate your willingness.

Thanking You,


PRINCIPAL

Karmveer Bhaurao Patil
College, Urun-Islampur (Sangli)

खर्चाची पावती

व्हीचर नं.

माननीय प्राचार्य, कर्मवीर भाऊराव पाटील कॉलेज, इस्लामपूर यांना -

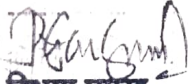
तारीख: 18 / 03 / 2025

पावती लिहून देणार सायली अक्षय पाटील. सुक्ष्मजीवशास्त्र

पावती लिहून देतो की, खालील तपशीलाप्रमाणे आज रोजी मला पैसे मिळाले. तक्रार नाही.

खाते सायली अक्षय पाटील यांनी	रक्कम	
	रुपये	पैसे
अन्नगिरी महाविद्यालयांतर्गत सुक्ष्मजीवशास्त्र	1000/-	00
विभागाकडे 'Genetic Engineering')	00
या विषयावर व्याख्यान दिले.		
त्याचे लेख्य माध्यम मिळाले.		
एकूण (अक्षरी व अंकी) रुपये	एक हजार रुपये मात्र.	1000/-

वसीलप्रमाणे रक्कम आदा करून ही पावती रद्द केली.


विभाग प्रमुख
प्राचार्य
पैसे घेणाराची सही

महात्मा फुले शिक्षण संस्थेचे

कर्मवीर भाऊराव पाटील कॉलेज, उरुण-इस्लामपूर

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M.Sc., M.Phil., Ph.D.
प्राचार्य

☎ फोन : कार्यालय - (०२३४२) २९९४७२

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जा. क्र.

दिनांक : / / २०२

LETTER OF APPRECIATION

To,

Smt. S.D.Kadam.

Assistant Professor, Department of Microbiology
Sadguru Gadage Maharaj College, Karad

Respected Madam,

I would like to thank for your valuable guidance on the subject B. Sc. Microbiology in the K. B. P. College, Urun-Islampur on 18/03/2025 at 11.00 am. on the subject "Genetic Engineering". Hope you will extend co-operation in future also.

PRINCIPAL

Karmveer Bhauroao Patil
College, Urun-Islampur (Sangli)



Mahatma Phule Shikshan Sanstha's
Karmaveer Bhaurao Patil College,
Urun-Islampur



Department of Microbiology

Organized

Lead College Activity

A Guest Lecture on

“Genetic Engineering”

On 18th March, 2025 at 11.00 am

Schedule

Welcome and Introduction	:	Miss. S.B. Patil
Introduction of the Resource Person :		Miss. S. S. Nilakhe .
Resource Person	:	Smt. S.D.Kadam. Assistant Professor, Department of Microbiology Sadguru Gadage Maharaj College, Karad
Chairman	:	Dr. P. V. Gaikwad Vice Principal K. B. P. College, Urun-Islampur
Vote of Thanks	:	Miss.P. P. Jadhav.
Venue	:	At G-14 hall, K.B.P. College Islampur.

Mahatma Phule Shikshan Sanstha's

Karmaveer Bhaurao Patil College,

Urun-Islampur

Department of Microbiology

Lead College Activity

A Guest Lecture on

"Genetic Engineering"

Resource Person: Sayali Akshay Patil

-:Report:-

Karmaveer Bhaurao Patil College, Urun- Islampur organized guest lecture under lead college activity. The resource person for this session is Sayali D.Kadam . Currently she is working as an Asst prof.at department of microbiology S.G.M College,Karad. She delivered lecture on "Genetic Engineering" for B,Sc student. She also explained about application of Genetic Engineering in various field.

Genetic engineering refers to the deliberate modification of an organism's DNA to achieve desired traits or outcomes. This technology allows scientists to add, remove, or alter specific genes within an organism's genome. It has numerous applications across various fields, including medicine, agriculture, and biotechnology.

Steps involved in genetic engineering:

1. Identify the Gene of Interest

2. Gene Cloning

- Extract DNA
- PCR (Polymerase Chain Reaction)
- Gene Cloning

3. Gene Insertion (Transformation)

- Vector Delivery
 - Electroporation
 - Microinjection
 - Biolistics (Gene Gun).
 - Agrobacterium-mediated transformation.
 - Viral Vectors

4. Selection and Screening

- Selection Markers
- Screening

5. Regeneration and Growth

6. Analysis and Characterization

7. Regulatory Approval (if applicable)

- Safety and Environmental Testing
- Regulatory Agencies

8. Commercial Production

9. Post-release Monitoring

Application of genetic engineering:

1. Agriculture

- Genetically Modified Crops (GMOs).

2. Medicine

- Gene Therapy
- Production of Therapeutic Proteins:
- Vaccines:

3. Industrial Biotechnology

- Biofuels
- Biodegradable Plastics
- Enzyme Production
- Bioremediation.

4. Environmental Applications

- Environmental Monitoring:
- Carbon Sequestration: Scientists are exploring genetic modifications to plants and algae to enhance their ability to absorb and store carbon dioxide, helping to combat climate change.
- Invasive Species Control: Genetic engineering may be used to develop organisms that can control invasive species, such as modifying mosquitoes to reduce populations that transmit diseases like malaria or Zika virus.

5. Forensic Science

- DNA Fingerprinting: Genetic engineering techniques are used to analyze DNA in forensic investigations, helping to identify individuals involved in crimes or paternity cases.
- Gene Editing in Forensics: Forensic applications also benefit from gene editing techniques, such as CRISPR, to understand genetic links or reconstruct genetic data.

Mahatma Phule Shikshan SanStha's

Karmaveer Bhaurao Patil College, Urun Islampur

Department of Microbiology

Year 2024-2025

Guest lecture – "Genetic Engineering"

Date: 13/03/2025

Sr. No.	Student Name	Sign
1.	Patil Priyanka Ashok.	<u>Priyanka</u>
2.	Kamble Tejaswini shrikanth.	<u>Tejaswini</u>
3.	Samruddhi Ramchandra Yelmare	<u>Yelmare</u>
4.	Shahina Mehbab Sufar	<u>Shahina</u>
5.	Gajubai N. Yadav Patil	<u>Gajubai</u>
6.	Jadhav Sayali Vilas	<u>Sayali</u>
7.	Patil Bhakti Abhijeet	<u>Bhakti</u>
8.	Suchitra Vikram Dhunacewade	<u>Suchitra</u>
9.	Asiya Asif Hameeddar	<u>Asiya</u>
10.	Nikhita Namdev Patil	<u>Nikhita</u>
11.	Gwanali Sachin Patil	<u>Sachin</u>
12.	Pranita Suresh Kumbhar	<u>Pranita</u>
13.	Alfiya Fakruddin Patel	<u>Alfiya</u>
14.	Shruti Umesh Madane	<u>Shruti</u>
15.	Goyatri Rajendra Mulik	<u>Goyatri</u>
16.	Gouri Rajendra Mulik	<u>Gouri</u>
17.	Neha Suresh Chougule	<u>Neha</u>
18.	Stech+ Anuradha Vishwas Jadhav.	<u>Stech</u>
19.	Ruksar Bashir Mulani	<u>Ruksar</u>
20.	Sakshi Suhag Jadhav	<u>Sakshi</u>
21.	Shweta Vijay Patil	<u>S.V.Patil</u>
22.	Sakshi Sunil Navale	<u>Sakshi</u>
23.	Prachi Tanaji Mane	<u>Prachi</u>
24.	Soham Rajesh Mandale	<u>Soham</u>
25.	Harshad Tukaram Kenare	<u>Harshad</u>
26.	Pavan Vijay Jadhav	<u>Pavan</u>

27.	Ganesh Chandrakant Maske.	Ganesh.
28.	Kailas Uttam Jadhav	Kailash
29.	Vinendra Vinayak Gujar	Vinayak
30.	Pratik Ramesh Jadhav	Pratik
31.	Prasad Shahaji Jadhav	Prasad
32.	Pratik Mohan Patil	Pratik
33.	Ajinkya Shivaji Mane	Ajinkya
34.	Pranav Ravindra Jadhav	Pranav
35.	Harshwardhan. Bhagwan. Dinde.	Harshwardhan.
36.	Pratik vijay pharne	Pratik
37.	Vijay vijay patil	Vijay
38.	Pranav mansing Jadhav	Pranav
39.	Viraj Pradeep Salunkhe	Viraj
40.	Pranav Manik Mali	Pranav
41.	Ruturaj Dipak Gavade.	Ruturaj
42.	Jay Prashant Kulkarni	Jay
43.	Mukund Rajaram Kamble	Mukund
44.	Vishwambhar Sachin Shinde	Vishwambhar
45.	Rutuja Rajendra Shingare	Rutuja
46.	Shrutika Manik Mali	Shrutika
47.	Madhuri Shahaji Dhumal	Madhuri
48.	Saloni Sunil Dhumal	S.S. Dhumal.
49.	Sanile Santosh Gurav.	Sanile

