RAMA DEVI WOMEN'S UNIVERSITY

Vidya Vihar, Bhubaneswar-751022

SEMINARS/CONFERENCES/WORKSHOPS/WEBINARS CONDUCTED BY DEPARTMENT OF BIOTECHNOLOGY

1. **Event:** Seminar
2. **Title of the Event : 16th Rosalind Franklin Seminar Series**
3. **Date & Duration:** 4th May, 2026 (3:30 – 5 pm)
4. **Objective/Motivation of the Event:**

   Plant biotechnology has emerged as a powerful tool for addressing challenges related food security, sustainable agriculture, crop improvement, and commercialization of high-value horticultural and medicinal plants. Recent advances in plant tissue culture, micropropagation, genetic transformation, and molecular breeding have enabled the rapid multiplication of elite planting materials, conservation of valuable germplasm, and development of crops with enhanced nutritional and agronomic traits. The seminar aimed to provide students, researchers, and faculty members with insights into contemporary developments in plant biotechnology and its applications in agriculture. The lecture focused on the role of tissue culture techniques in large-scale propagation of economically important crops, development of disease-free planting materials, value addition in fruits and vegetables, and the translation of laboratory innovations into commercial agricultural products. The session also sought to motivate young researchers to explore opportunities in plant biotechnology, entrepreneurship, and technology-driven agricultural development.
5. **Theme of the Event:** Plant Biotechnology: From Innovation to Commercialization
6. **Funding Agency: NA**
7. **Funds Received (In Rs.): Nil**
8. **Technical Session (Details)**
   i. **No. of Technical sessions conducted:** 01

Title of the Technical sessions: Plant Biotechnology for Sustainable Agriculture: Tissue Culture, Crop Improvement and Commercial Applications

9. **Chairperson of the technical session: Prof. Raj Kumar Joshi** (Head, Department of Biotechnology)
10. **Resource persons (Details): Prof. Pratap Kumar Pati,** Head, Department of Biotechnology, Guru Nanak Dev University

11. Participants Details (Indicate Numbers only)

- **i. Scientists/Faculty/Members of industry: 5**
- **ii. Ph. D. Scholars: 8**
- **iii. Students: 21**

12. Outcomes of the Event:

The seminar delivered by Prof. Pratap Kumar Pati**,** Head, Department of Biotechnology, Guru Nanak Dev University, Amritsar, highlighted the application of plant biotechnology in crop improvement, medicinal plant research, sustainable agriculture, and commercialization of research outcomes. Drawing from his research experience, he demonstrated the successful use of micropropagation techniques in Grand Naine (G9) banana for the large-scale production of disease-free and genetically uniform planting materials. Prof. Pati also discussed the biotechnological advancement of medicinal plants such as Ashwagandha (*Withania somnifera*) and *Rhodiola imbricata*, emphasizing the enhancement of valuable bioactive compounds, conservation strategies, and the development of commercially relevant technologies. He presented his work on endophytic microorganisms and plant growth-promoting rhizobacteria (PGPR)**,** highlighting their role in improving plant growth, nutrient availability, and sustainable agricultural practices. The lecture further showcased innovations in β-carotene-rich cauliflower, value-added fruit and vegetable products, and the translation of laboratory research into patents, technology transfer, and entrepreneurship. Through these examples, the speaker emphasized how biotechnology can contribute to agricultural productivity, nutritional security, and economic development. The seminar provided participants with valuable insights into contemporary advances in plant and microbial biotechnology and inspired them to pursue innovation-driven research for societal benefit.

13. Recommendations (if any):

The organizing committee was very pleased with the overall execution of the event in a smooth and successful manner.

14. Selected Photographs : Enclosed

Prof. Raj Kumar Joshi formally introducing Prof. Pratap Kumar Pati during the seminar session.

Prof. Pratap Kumar Pati delivering the lecture on “Plant Biotechnology for Sustainable Agriculture”

Prof. Pratap Kumar Pati engaging with the audience during the Rosalind Franklin Seminar.

Felicitation of esteemed speaker Prof. Pratap Kumar Pati by Prof. Raj Kumar Joshi and other faculties of the department

ATTENDANCE SHEET

Event name : Rosalind Franklin Seminar Series

Speaker : Prof. Pratap Kumar Pati

Date : 04.05.2026

Sl. No.	Name	Signature
01	Jyotipriyadarsini Behera	Jyotipriyadarsini Behera
02	Manisha Neti	Manisha Neti
03	Simpal Salestaine Sahoo	Simpal Salestaine Sahoo
04	Prakruti Dhal	Prakruti Dhal
05	Amisha Malik	Amisha Malik
06	Sonali Sahoo	Sonali Sahoo
07	Charli Pandey	Charli Pandey
08	Bandana Kumari Ojha	Bandana
09	Biswasmita Priyadarsini Tripathy	Biswasmita P. Tripathy
10	Ashiya Firgosh.	Ashiya Firgosh.
11	Manya Maurya	Manya Maurya.
12	Swagatika Lenka	Swagatika Lenka
13.	Shubhashweta Ojha	
14.	Anchal Jena	Anchal Jena.
15.	Sai Priyadarshini	Sai Priyadarshini
16.	Bidusmita Ghadei	Bidusmita Ghadei.
17	Swayam Prabha Sarangi	Swayam P. Sarangi
18.	Kajol Srikant Pradhan	Kajol Pradhan.
19.	Niniti Malakar	Niniti Malakar
20.	Monika Sahoo	Monika Sahoo
21.	Jahnvi Majhi	Jahnvi majhi
22.	Rushda Asrif	
23.	Nita Sahoo	N. Saha
24.	Sulagna Dash Mohapatra	
25.	Pyarel Payal Behera	
26.	Shubhani Jena	
27	Preachita Das	P. Das
28	Alaka Mohanty	
29.	Soumya Swayita Sahoo	Soumya.
30.	Swasta Manjari Mishra.	Swasta.
31.	Subhrakali Jena	
32.	Shubhamkee Sanhlishta Sahu.	Shubham.
33.	Priyanka Behera	
34.	Tista Mallick	Tista.

04/05/26

HEAD DEPARTMENT OF PHYSICS
Rama Devi Women's University
Bhubaneswar