

INTERNAL QUALITY ASSURANCE CELL

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- E-mail: iqac@rdwu.ac.in Website www.rdwu.ac.in
- 1. <u>Name of Event:</u> Workshop
- 2. <u>Title of the Event</u>: Workshop on Phytochemical and Molecular techniques
- **3.** <u>Date and Duration</u>: 20/06/2024 22/06/2024
- 4. <u>Themes & Objectives of the Event:</u> The workshop aimed to bring together students from different colleges and Universities to provide a hands-on experience of Phytochemical and molecular techniques.
- 5. Funding Agency: IDP, RDWU
 - a) Funds Received (in Rs.): Rs 65,000/-
- 6. <u>Details of Technical Sessions:</u>
 - a) Number of Technical sessions conducted: 3
 - b) Title of Technical Sessions:

Session I: Advances on the microbial techniques

Session II: Ayurveda and drug discovery process, basis of pharmacology

in ayurveda vs contemporary science

Session III: Harnessing genome editing technology towards crop improvement

c) Chairperson of technical Sessions: Dr Sujata Mohanty, HOD,

Biotechnology, RDWU

7. <u>Session wise Brief Report: Details of Resource Persons (date wise)</u>

Sl.	Date	Name	Designation	Institute	Title of Talk
No.					
1	20/06/2024	Dr. Snehashis Mishra	Associate Professor	School of Biotechnology, KIIT	"Advances on the microbial techniques"
2	21/06/2024	Dr. Kshirod Ratha	Researcher officer	Central Ayurveda Research Institute, Bhubaneswar	Ayurveda and drug discovery process, basis of pharmacology in ayurveda vs contemporary science,
3	22/06/2024	Dr. Rukmini Mishra	Associate Professor	School of Applied Sciences, Centurion University, Bhubaneswar	"Harnessing genome editing technology towards crop improvement"

<u>DAY-1</u>

Participants were invited for online registration through a google link. 176 applicants were applied for the workshop from different universities / colleges across the state Odisha. Out of which only 100 applicants were selected. The selected participants were confirmed through email confirmation. And they were linked through common whatsapp group. On 20th June the invited talk was on the topic "Advances on the microbial techniques" by Dr. Snehashis Mishra, Associate professor, school of Biotechnology, KIIT. Dr. Mishra explained the importance of microbial world. A bacterial cell being a simple organisms self-sacrifice its life for us and this behaviour became the reason for so many scientific successes in biological world. He also talked about the landscape of microbial world and limitation of traditional microbial techniques. He introduced the participants to the world of advance molecular and microbial techniques like PCR, Chromatography, Electrophoresis, flow cytometry, mass spectroscopy, and Next generation techniques along with metagenomics, transcriptomics and many more. Then a vote of thanks was given by Coordinator Dr. Sanjay Kumar Raul followed by felicitation of our invited speaker by Dr Sujata Mohanty. After the lunch break hands on session was started. As per the module all the participants were divided into three groups and were assigned to the respective labs. Different techniques like essential oil extraction by Clevenger apparatus along with qualitative and quantitative analysis of phytochemicals of plant extract were done. Molecular techniques like DNA extraction, quantification, and gel electrophoresis techniques were also performed by the participants. Microbial techniques like media preparation, sterilisation, isolation of bacterial from soil, air and water, serial dilution, enumeration of bacteria, gram staining, antibiotic susceptibility assay by disc diffusion methods, antimicrobial activity of plant extract by well diffusion method, biochemical test and subculture techniques were also done.

<u>DAY- 2</u>

The invited speaker Dr. Kshirod Ratha (Researcher officer, Central Ayurveda Research Institute, Bhubaneswar) talked about the world of ayurveda and drug discovery process, basis of pharmacology in ayurveda vs contemporary science, about the limitations of herbal drug designing. He also provided an insight into the problems associated with designing herbal drugs through 'Reverse Pharmacology". The talk was followed by a vote of thanks by the coordinator Dr. Sanjay Kumar Raul and felicitation to the guest by Dr Sujata Mohanty. Hands-on session was started after lunch break. Participants were demonstrated about different experiments on Phytochemical and molecular techniques.

<u>DAY 3</u>

The third day of workshop begun with the invited talk by our guest Dr. Rukmini Mishra (Associate Professor, School of Applied Sciences, Centurion University, Bhubaneswar). She explained about "Harnessing genome editing technology towards crop improvement". She talked in detail about the know-how of genome editing techniques. She explained about the recent advances in genetics and genomics, crop improvement strategies, genome editing, CRISPR/CAS mediated bacterial defence against pathogens attack, mechanism of

CRISPR/CAS. Participants were interacted through question-answer on how to develop a CRISPR/ Cas9 mediated genome edited plant and its application, regulations, and challenges of genome editing. Hands on session was completed after lunch followed by valedictory session. Some of the participants shared their feedback and suggestions for future workshops.

8. Details of Participants: Attendance sheet attached

9. <u>No. of Paper presentations made: NA</u>

- 10. <u>Outcome of the event:</u> The workshop provided an excellent opportunity for the students to learn various techniques related to molecular biology and Phytochemistry. It also motivated the participants to actively engage in research by giving useful platform to grasp a lot of information on recent advances in biotechnology.
- **11.** <u>**Recommendations**</u>: The organising committee recommended that more such workshops should be organised in future in Plant and Animal Biotechnology and Tissue Engineering.



12. Selected photographs: Enclosed

Dr. Snehashis Mishra, Assoc. Professor, School of Biotechnology, KIIT University addressing the participants on recent microbial techniques.



Dr. Kshirod Rath, Research Officer, Central Ayurveda Research Institute, Bhubaneswar addressing the participants on Ayurveda and drug discovery process.



Dr Rukmini Mishra, Assoc. Professor, School of Applied Sciences, Centurion University, Bhubaneswar addressing the participants on Harnessing genome editing technology towards crop improvement".







Participants doing experiments during the Hands-on sessions.





Workshop on "Phytochemical and Molecular Techniques" Dept. of Biotechnology, Rama Devi Women's University 20th-22nd June, 2024 Attendance- Dt- 20/06/2024

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Workshop on "Phytochemical and Molecular Techniques" Dept. of Biotechnology, Rama Devi Women's University 20th-22nd June, 2024 Attendance- Dt- 22.4.6.24

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53.	Lounya naneoparta	Renorman	Source
54. •	Smiti Kana Roy	RDWU	Smit'
55.	Abed Ronfon Brigh Alisha Sarangi Louniya uancerciona Smiti Kana Roys Alganteshya Das	RDW D	A pante shija'
56.*	Presenti Grouda (JMB)		Pragali
57.	Pragats Gouda (JMB) Diptinages Nayak	RDNU, BASE	V I
58.	Subhasmita Behere	RDWU, BBSR	Suth
59.	Mousumi Paton	RIDLAIN, BOSR	youmni
60.	Poriyanka P. Sorren Priyadarshini Tanomaya Forpathy	ROWLI, BMSR	Portyanka
61.	Tanamara Topathy	RONIN, BBSR	Tanayaya
62.	Tamana Toipathy	R PMIN, MMSR	Tamana
63.	Rashmita Ojiha	ROWMIBBSK	Richantz
64.	Smaraki Subhadarsini		
65.		ROWU, BREPERT)	A
66.			Mary
67.	I ashai ha in a Cala	RDWO	Laxmipniy gan
68.	Laxinj priya Sanoo Jignyasarani Bagh	ROWV	Jognyan.
69.	Anushophini Bradhan	RDWU	Aneshobhini

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70.	Ritupaona Rout	RDWU	Rituparna Rou
71.	Ritupaona Rout Shreeja Bilung	RDWU	ShacejaBilling
72.	Tanisha Rout	RDWU	Tanishe Rout
73.	Blessy kar	RDWU	Blessykar.
74.	Mousumi Nahak	RDWU	Maulumi Naha
75.	Anamika Mohanty	ROWU	Amoh.
76.	Subhalaami Benti	RDWW	Seethelaini
77.	Snehavjalo Parda	RDWS	snehenjah
78.			Papa
79.	Puja Arradhana Rjini Sushree Debika Chahataray	RDWU	Cushnee
80. /	Kirteekiran Panda	RDWU	19:37fee
81.	Sauceleemin; Fredhen	POWU	De Saudamen'
82.	Adira Arushi Patra	RDWV	Adira,
83.	Strehmee Barriz	ROWU	- I fishnee
84.	Juthika Dandapel	RDWU	Jutuika.
85.	Dibyasha Das	RDWU	Dibyatha
86.		RDWU	P. Des
87.	Preacheter Das Alana Mohanty	RDWU	flake Albhansy
88.	Payal Beura	RDWU	Payal Bernon
89.	Rajalanni Lehera	RDWU	Rajalanas
90.	Alisha Nayah	RDWU	thisherpyuk
91.	Runhda Aaril	ROWU	dushde fait
92.	Nitu Sahoo	RDWU	Noschoo
93.	Partichya Nande	ROWV	. Lipos

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94.	Tamanapalli Snavya Such	RDW, BBSR	Snavya bivhi
95.	Tomanapalli Snavya Swhi Nista Mallich	ROW", BBSK	Joh
96.	Richa sharma	RDWU, BBSR	Rely
97.	Shubbarshee Genehleshta		essale .
98.	Jayashee Schoo	RDWU, BBSR RDWU, BOSR	Fyen.
99.	Samita Panda	RDWU, BBSK	Spandy
100.	Pooja Chatterjee	RDWU, BBSR	
101.		and the second	Rehatterjee
1.1.1	Hemanginë Singherwar	i RDWO, BBSR	Hifine.
102.	S. B. P. Das	RDWU, BBSR	S.B. P. Pey
103.	Soumya S. Tripathy	RDWU, BBSR	S. Tripetu
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