

**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<br>Mishra | Associate<br>Professor | School of<br>Biotechnology,<br>KIIT                                    | "Advances on the microbial techniques"  |
| 2   | 21/06/2024 | Dr. Kshirod<br>Ratha    | Researcher<br>officer  | Central Ayurveda<br>Research Institute,<br>Bhubaneswar                 | Ayurveda and drug<br>discovery process, basis<br>of pharmacology in<br>ayurveda vs<br>contemporary science, |
| 3   | 22/06/2024 | Dr. Rukmini<br>Mishra   | Associate<br>Professor | School of Applied<br>Sciences, Centurion<br>University,<br>Bhubaneswar | "Harnessing genome<br>editing technology<br>towards crop<br>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 20<sup>th</sup> 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 20<sup>th</sup>-22nd June, 2024 Attendance- Dt- 20/06/2024

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| 4        | 7.     | Soumyashree Mistura                       | BJB Autonomus collège                               | soumpashnee Mishna          |
| 37       | 8.     | Nistha Das                                | BJB Autonomous college                              |                             |
| 1        | 9.     | Anupania Yanda                            | khallikoje college                                  | Anupania Panla              |
|          | 10.    | Monalisa Mayak                            | College of Basic science                            | Monalis M Norgal            |
| (B)      | 11.    | Nikhita Panda                             | CBSH; OVAT, Bbsr                                    | Nikhita Panda               |
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|          | 33.    | Liza Jega (IMB)                           | Rough Derli ulaments uni                            | Subherrice parisa           |
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| 5        |        | Sanghamitra Sahoo (IMB)                   | RDWU, BBSR  | S. Lahoo                    |

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|          | 40.  | Shubamila Sahoo.                                      | Fakir mohan iniversity, Bolose | re Shuramita Saho   |
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| 32       | · 46.  | Shibani Jega  | RDWU                           | Shibayi Jeng.       |
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|          | 49.  | Subhadra Kar  | Fakin Mohan Universi           |                     |
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|          | 56.  | Kahila Nallick  | 3. K. C.G. Auto. College.      | Kabita mallick.     |
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|               | 75.            | Prayas Majhi                | BJB Auto          | Prayas mail   |
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|               | 77.            | Prilipanka Bhyyan           | R.D University    |               |
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| - 0 (72))<br> | 98.            | Russida Aarri               | DDWU              | Jusha Aggit.  |
|               | 99.            | Alisha Nayan                | RDWU              | Alisha Nayan  |
|               | 100.           | Samita Panda                | RDWU              | Gpan da       |
|               |                | Pooja chatterjee            | RDWU              | Rebell.       |
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#### Workshop on "Phytochemical and Molecular Techniques" Dept. of Biotechnology, Rama Devi Women's University 20<sup>th</sup>-22nd June, 2024 Attendance- Dt- 21/06/24

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| 22. | Dipika Biswal        | FMU                    | DR   |
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| 23. | Monalisa Nayerk      | FMU<br>CBSH, OUAT BBSR | Monalisa Nayak   |
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| 27. | Shreelipta Acherrya  | S.K.C.G, PKd           | S. Acheorya  |
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| 37. | Anupricipa Munda     | Utkal university       | Em flich   |
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| 39. | Sanghamitra Sahoo    | RDWU, TMB              | S. Sahoo   |
| 10. | Suthestree Parida    | ROWY, 7MB              | Suppostive   |
| 11. | Smouti S. Nayak      | ROWU, IMB              | Ssaloujak  |
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| 65. | Jaja shree Sahoo   | ROWU, DOOR        | Iga.                            |
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| 92.        | Samita Panda                          | ROWU   | Span,             |
| 93.        | Poopa Chatterjee                      | ROWU . | Repatt.           |

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| 94.  | Samita Panda         | ROWU, BRSR | Spanly.                                 |
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| 95.  | Hemangini Singhemani | ROWU, BBBR | Marsh                                   |
| 96.  | Pooja chatterjee     | RDWU, BBSR | Kehatter.                               |
| 97.  | Soumya S. Tripastay  | RDWU, BBSR | S. Tripethy                             |
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| 99.  | Deepfinagee Barik    | RDWU, BBSR | D. Bartk                                |
| 100. | Subhashree Mallick   | RDWU, BBSR | & Mallick                               |
| 101. | Kadambinee Das       | RDWU, BBSR | R. Day                                  |
| 102. |                      |            | *                                       |
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#### Workshop on "Phytochemical and Molecular Techniques" Dept. of Biotechnology, Rama Devi Women's University 20<sup>th</sup>-22nd June, 2024 Attendance- Dt- 22.4.6.24

| S. No. | Name and Contact number                          | Institute Name                          | Signature      |
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| 11.    | Rajalanii Mohanty<br>Shewalmeta Sahoo            | Fakin Mohan University Bala             |                |
| 12.    | Subhadra Kar                                     | F.M University                          | 0              |
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| 20.    | NISTHA DAS                                       | B.J.B (A) COLLEGE                       | Nistrapas      |
| 21.    | Monatisa Nayak                                   | CBSH, OLIAT BBSR                        | Monelisa Naya  |

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| 22.  | Riiganke Mushili                        | BJBCA) college                         | Pinjanha Mahuli              |
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| 23.  | Roghmi Ronton Hypen                     | vthey university                       | ffetbyen.                    |
| 24.  | Muskan Modi                             | Utkal University                       | Mus                          |
| 25.  | kabita mallick                          | s.K.C.G. Auto.clig pkd                 | Kabitamallick.               |
| 26.  | Shreelipta Acharya                      |  | A                            |
| 27.  | Projra Sarita Sathy                     | S.K.C.Cr Ando collegeted<br>RDWV, BBSR | Pllothy                      |
| 28.  | Sujit Buton                             | atkal wiversity                        | mitter.                      |
| 29.  | Bhampriyabehry                          | Utkal university                       | Bhars                        |
| 30.  | Ayesha Das                              | Utkal University                       |                              |
| 31.  | Lanmipreija Routray                     | BJB(A) Lollege                         | hannel                       |
| 32.4 | Smagatika Smain                         | BJB College                            | Cuagatika Sua                |
| 33.  | Jongyarenee Beherra                     | FM University, Balage                  |                              |
| 34.  | ~~~                                     | BJB(A) college, BBSR                   | soumyashrie                  |
| 35.  | Sournyachree Michria<br>Chimmeyee Patoa | Utkal University                       |                              |
| 36.  | Anupriya Munda                          | uthal University                       | Amunda.                      |
| 37.  | Ananya Ghadei                           | Utkal University                       |                              |
| 38.  | Gaunuja Puijadanshini Ban               |  | V DO V                       |
| 39.  | Sujata Mohanty                          |  | s.mohanty                    |
| 40.  | Rajnandini Parcida                      | FM university                          | R. Parcida                   |
| 41.  |   |  | Amehoreaans                  |
| 42.  | Annapuerna Mahavana<br>Casa l' C Mariak | ROWU (INB)                             |                              |
| 43.  | Smruti S. Nayak                         | RDWU (DMB)                             | Servayar.                    |
| 44.  | Subhashree patida                       | ROWLI (2MB)                            | Subhachne faste              |
| 45.  | SoumyA HOPA                             | ROWU (IMB)                             | Sounga Hota<br>An americanje |
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| 46.      | Abantika Das  | Rajdhani College                     | Abantike Day   |
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| 47.      | Abantika Das<br>Prayas mojhi  | Rajdhani College<br>BJB College      | Prayas   |
| 48.      | 김 씨는 것을 알려요. 그는 것은 것은 것은 것은 것을 다 같이 많이 있는 것을 가지 않는 것 같이 많이 많이 많이 많이 많이 많이 없다. 것은 것은 것은 것을 다 있는 것을 다 있는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 수 있다. 것을 수 있다. 것을 하는 것을 수 있다. 것을 것을 것을 수 있다. 것을 수 있다. 것을 수 있다. 것을 것을 것을 것을 것을 수 있다. 것을 수 있다. 것을 것을 것을 것을 것을 수 있다. 것을 |                                      | New Street Street Street   |
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| 52.      | Alisha Sarangi  | ROWU (CMB)                           | Vpam;  |
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| 54.<br>• | Smiti Kana Roy  | RDWU                                 | Smit'  |
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| 56.*     | Presenti Grouda (JMB)   |                                      | Pragali  |
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| 58.      | Subhasmita Behere   | RDWU, BBSR                           | Suth   |
| 59.      | Mousumi Paton   | RIDLAIN, BOSR                        | youmni   |
| 60.      | Poriyanka P. Sorren<br>Priyadarshini<br>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   |
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| 68.      | Laxinj priya Sanoo<br>Jignyasarani Bagh   | ROWV                                 | Jognyan.   |
| 69.      | Anushophini Bradhan   | RDWU                                 | Aneshobhini  |

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| 70.   | Ritupaona Rout                                    | RDWU | Rituparna Rou  |
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| 71.   | Ritupaona Rout<br>Shreeja Bilung                  | RDWU | ShacejaBilling |
| 72.   | Tanisha Rout                                      | RDWU | Tanishe Rout   |
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| 74.   | Mousumi Nahak                                     | RDWU | Maulumi Naha   |
| 75.   | Anamika Mohanty                                   | ROWU | Amoh.          |
| 76.   | Subhalaami Benti                                  | RDWW | Seethelaini    |
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| 79.   | Puja Arradhana Rjini<br>Sushree Debika Chahataray | RDWU | Cushnee        |
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| 82.   | Adira Arushi Patra                                | RDWV | Adira,         |
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| 84.   | Juthika Dandapel                                  | RDWU | Jutuika.       |
| 85.   | Dibyasha Das                                      | RDWU | Dibyatha       |
| 86.   |   | RDWU | P. Des         |
| 87.   | Preacheter Das<br>Alana Mohanty                   | RDWU | flake Albhansy |
| 88.   | Payal Beura                                       | RDWU | Payal Bernon   |
| 89.   | Rajalanni Lehera                                  | RDWU | Rajalanas      |
| 90.   | Alisha Nayah                                      | RDWU | thisherpyuk    |
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| 92.   | Nitu Sahoo  | RDWU | Noschoo        |
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| 94.   | Tamanapalli Snavya Such                  | RDW, BBSR  | Snavya bivhi  |
| 95.   | Tomanapalli Snavya Swhi<br>Nista Mallich | ROW", BBSK   | Joh   |
| 96.   | Richa sharma                             | RDWU, BBSR   | Rely  |
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| 98.   | Jayashee Schoo                           | RDWU, BBSR<br>RDWU, BOSR   | Fyen.   |
| 99.   | Samita Panda                             | RDWU, BBSK   | Spandy  |
| 100.  | Pooja Chatterjee                         | RDWU, BBSR   |   |
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| 102.  | S. B. P. Das                             | RDWU, BBSR   | S.B. P. Pey   |
| 103.  | Soumya S. Tripathy                       | RDWU, BBSR   | S. Tripetu  |
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