REPORT

on

One-Day Workshop on 'Molecular Biology Techniques'

Organized at

Departments of Zoology and Botany,

G. B. Pant Memorial Govt. College, Rampur

Bushahr, Shimla, Himachal Pradesh

on

20 December 2024

by



Department of Biotechnology and Bioinformatics

Jaypee University of Information Technology

Waknaghat, Solan

Introduction:

On 20 December 2024, a One Day Workshop was organized by **Department of Biotechnology and**

Bioinformatics, Jaypee University of Information Technology, Waknaghat, Solan (H.P.) in

collaboration with Departments of Zoology and Botany, G.B.Pant Memorial Govt. College,

Rampur Bushahr, Shimla, Himachal Pradesh in the domain of 'Molecular Biology Techniques'.

The workshop aimed to provide hands-on training and theoretical insights into advanced molecular

biology techniques for students and researchers.

Organized by: Jaypee University of Information Technology, Waknaghat, Solan

In Collaboration with: The Departments of Zoology and Botany, G.B.Pant Memorial Govt. College,

Rampur Bushahr, Shimla, Himachal Pradesh

Date: 20 December, 2024

Venue: Labs of Zoology and Botany, Govt. College, Rampur Bushahr, Shimla,

Objectives of the Workshop

To introduce participants to fundamental and advanced molecular biology experimental

techniques.

To bridge the gap between theoretical knowledge and practical applications in molecular

biology.

To foster collaboration and knowledge exchange between departments and institutions.

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Inaugural Session

The workshop commenced with an inaugural session attended by esteemed faculty members, and students. The session began with a welcome address by Dr. Yojana Thakur, who emphasized the importance of molecular biology in understanding complex biological systems. Dr.Rahul Shrivasatava, Professor of Biotechnology from JUIT, Waknaghat, highlighted the collaborative efforts and shared the vision of fostering academic and research excellence.

Workshop Sessions

The workshop featured a blend of theoretical lectures and hands-on practical sessions, ensuring a comprehensive learning experience for all participants by Prof. Dr. Rahul Shrivastava.

Session 1: Introduction to Molecular Biology Techniques

- Speaker: Dr. Rahul Shrivastava, Jaypee University of Information Technology
- Key Topics: Principles of ELISA, types (direct, indirect, sandwich, and competitive), and its applications in diagnostics and research.

Session 2: Hands-On Training

- Resource Person: Dr. Rahul Shrivastava
 - 1. Key Topics: Preparation of samples and reagents for ELISA.
 - 2. Performing a sandwich ELISA to detect a target antigen.
 - 3. Reading and interpreting results using a microplate reader.
 - 4. Troubleshooting common challenges in ELISA experiments.

Session 3: Data Analysis and Interpretation

• Key Topics: Quantitative and qualitative analysis of ELISA data, standard curve generation, and practical applications.

Participant Feedback

The workshop witnessed enthusiastic participation from over 70 students faculty members of Zoology

and Botany. Participants appreciated the interactive sessions and the opportunity to gain hands-on

experience with advanced laboratory techniques. Feedback highlighted the clarity of instruction and the

availability of modern equipment as key strengths of the workshop.

Closing Ceremony

The workshop concluded with a vote of thanks from Dr. Asha, Head of the Department of Zoology. She

delivered the closing remarks, expressing gratitude to JUIT Waknaghat for their collaboration and to the

organizing committee for their efforts in making the workshop a success.

Acknowledgments

The Departments of Zoology and Botany extend their heartfelt thanks to Jaypee University of

Information Technology, Waknaghat, Solan, for their support and collaboration. Special thanks to the

organizing committee, facilitators, and participants for their active involvement and contribution to the

success of the workshop.

Report prepared by:

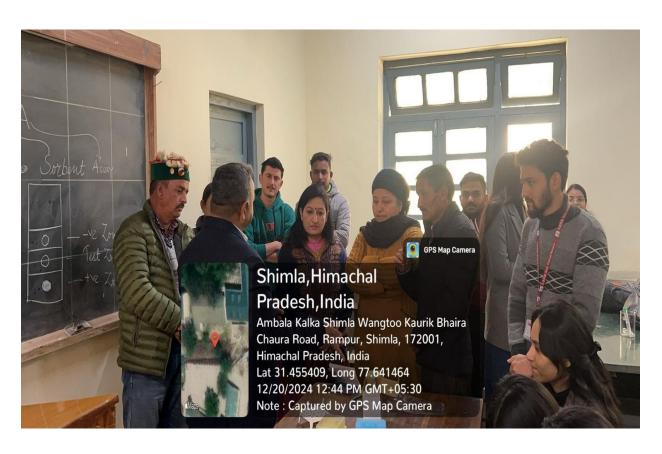
Dr. Rahul Shrivastava

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