

गुरु घासीदास विश्वविद्यालय  
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)  
कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya  
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)  
Koni, Bilaspur - 495009 (C.G.)

## Report on National Workshop on Molecular Diagnostics – Advances & Applications 2022

Department of Biotechnology, Guru Ghasidas Vishwavidyalaya

**Date of Event** : November 3-9, 2022

**Venue** : Department of Biotechnology

**You are cordially invited to attend the Inaugural Ceremony of National Workshop on Molecular Diagnostics Advances & Applications 2022 MDA 2022 03 - 09 November 2022**

**Prof. Alok Kumar Chakrawal**  
Hon'ble Vice Chancellor  
Guru Ghasidas Vishwavidyalaya, Bilaspur  
will preside over the function.....

**Date & Time**  
Thursday, Nov 3rd, 2022, 9.00 AM onwards

**Venue**  
Conference Hall,  
Department of Biotechnology,  
Guru Ghasidas Vishwavidyalaya Campus, Bilaspur

**Organized by**  
Department of Biotechnology,  
Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India, 495009

## Brochure of National Workshop on Molecular Diagnostics – Advances & Applications 2022



### Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
03-11-2022	Inauguration by Hon'ble VC, Keynote lecture by Prof. LVKS Bhaskar; Lecture by Dr. Deepankar Yadav and technical session for DNA isolation from biological samples	Prof. LVKS Bhaskar Dr. Deepankar Yadav	32
04-11-2022	Invited talk by Dr. Vivek Kumar Soni and technical sessions for RNA isolation, Gel Electrophoresis, Spectrometric estimation and Primer Designing for RT-PCR	Dr. Vivek Kumar Soni	32
05-11-2022	Invited talks by Dr. SC Sonkar, Dr. Vivek Kumar Soni and Dr. Suresh Thakur. Technical session for diagnosis of COVID19, Dengue and Real -Time PCR.	Dr. SC Sonkar Dr. Suresh Thakur Dr. SC Sonkar	32
06-11-2022	Invited talks by Dr. SC Sonkar and Dr. Sanjay Kumar Pandey. Technical sessions on diagnosis of Malaria, Sickel Cell Anaemia.	Dr. SC Sonkar Dr. Sanjay Pandey	32
07-11-2022	Invited talks by Dr. Saurabh Saxena, Dr. SK Nirala and technical sessions on Histopathological slide preparation, microscopy and various Lateral Flow Assays.	Dr. Saurabh Saxena Dr. SK Nirala	32
08-11-2022	Invited talks by Dr. Binod Kumar, Dr. VN Tripathi, Dr. Chanchal Kumar and technical session on LAMP based assays and Tuberculosis Diagnosis.	Dr. Binod Kumar Dr. VN Tripathi Dr. Chanchal Kumar	32
09-11-2022	Technical session and Valedictory Function		32

### **A Brief Abstract of the Event (Maximum 500 Words):**

Molecular Diagnosis Advances and Applications 2022 or MDAA 2022 was a seven days hands on workshop which consisted of technical training and invited talks by subject experts around the country and abroad. It included participants around the country and the region engaged in areas of biology, biotechnology, biomedicine and clinicians as well. This workshop aimed to help participants get familiar with recent advancements in Molecular diagnosis of various diseases and help them to develop skills particularly in field of molecular biology, disease biology and clinical research. The workshop started with inauguration by the hon'ble Vice-Chancellor of the University, Prof. Alok Kumar Chakrawal in the presence of the Registrar Prof. Manish Shrivastava, Dean Prof.

BN Tiwary, HOD Biotechnology Dr. Renu Bhatt and all faculty members, research scholars and students of department of biotechnology, botany and other departments of the University. From day one participants were joined by various subject experts from around the country and abroad. This workshop hosted speakers from some notable national and international industry leaders like Dr. Shirish Shukla from the Janssen pharmaceutical companies of Johnson & Johnson, Pennsylvania, USA; Dr. Saurabh Saxena from NextGen Invitro Diagnostics; Dr. Suresh Thakur from Trivitron Healthcare, Vishakhapatnam. Various experts from academia delivered their talks, notable among them were Dr. SC Sonkar from Multi Disciplinary Research Unit, MAMC, University of Delhi; Prof. LVKS Bhaskar from GGV; Dr. Sanjay Pandey from MDRU-Rewa, Madhya Pradesh. Many other speakers from the University also delivered their talks and shared valuable skills with participants. Participants throughout these seven days training learnt various skills of molecular diagnostics which included nucleic acid isolation, their estimation, quality check, western blotting, ELISA etc. Molecular diagnostic techniques also included Single Nucleotide Polymorphism detection, mutational analysis, Lateral Flow based assays, LAMP assays, Immunoassays, kit based assays (COVID19 detection, Dengue, Malaria, Typhoid, HIV etc). Feedback session was organized in which the participants were given feedback form and asked to express their views and experiences about the knowledge they gained in the workshop. After technical sessions of the last day, participants were called again for valedictory and certificate distribution ceremony.



**Image- Hon'ble VC inaugurating the workshop, MDAA Convener welcoming Hon'ble VC in Inaugurating Ceremony**





**Image: Dignitaries launching the Workshop Handbook, HOD Biotechnology addressing the gathering**



**Image- Glimpses of participants of MDA-2022 engaged in performing various technical hands-on training**





**Image- Glimpses of participants of MDAA-2022 engaged in performing various technical hands-on training**

*Abhatt*

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