

## Report on a National Workshop on Animal Cell Culture Techniques & Applications 2022

Department of Biotechnology, GGV

**Date of Event :** February 16-22, 2022

**Venue :** Department of Biotechnology, Guru Ghasidas Vishwavidyalaya



National Workshop on  
**Animal Cell Culture**  
Techniques & Applications-2022  
ACCTA - 2022  
16<sup>th</sup> -22<sup>nd</sup> FEB, 2022

Department of  
**Biotechnology**  
Guru Ghasidas  
Vishwavidyalaya

**Only 30 Seats!**

- Seven Day Training
- Hands-on Sessions
- Expert Lectures
- Manual Handbook
- Discussion Sessions

Registration Open till  
**Dec 15, 2021**

❖ Lectures and Hands-on training by Eminent Experts

❖ Highlights of the Workshop

- Primary and Cell line culture, Cell Passaging, Cryo-preservation, & Revival
- Viability, Proliferation, & Apoptosis assays
- Toxicity, Drug uptake, Fluorescence staining, & Chromatin Condensation
- In-vitro differentiation, Bone marrow culture, 3D Spheroids, Invasion and migration, & Functional assays

❖ Training program is open for students and Researchers from academia, R&D and Industries

Please reach us @

-  [ACCTA2022@gmail.com](mailto:ACCTA2022@gmail.com)
-  <https://sites.google.com/view/accta2022>

For any queries, contact us

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### Details of Event Proceedings

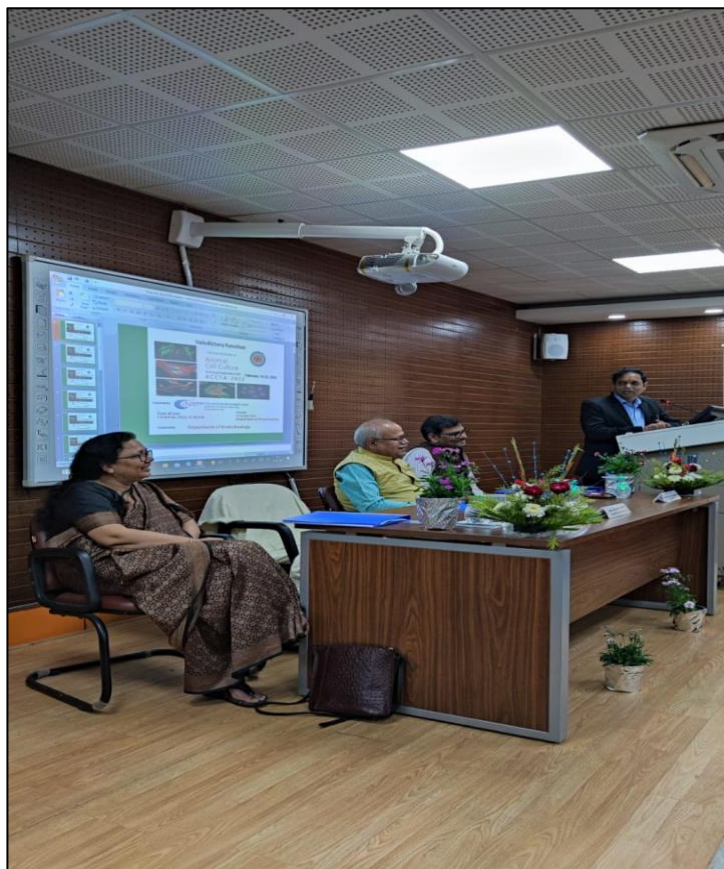
Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
16-02-2022	Inauguration by Hon'ble VC, Keynote lecture by Prof. Kalpana Rai, Dr. Vivek Kumar Soni and technical session about Introduction to basic animal cell culture lab, instrument handling and media preparation.	<b>Prof. Kalpana Rai Dr. Vivek Kumar Soni</b>	30
17-02-2022	Invited talk by Dr. Harit Jha, Dr. Naveen Kumar Vishvakarma and technical sessions about Media sterilization, filtration, cell lines handling, cell counting, viability assays.	<b>Dr. Naveen Kumar Vishvakarma Dr. Harit Jha</b>	30
18-02-2022	Invited talks by Dr. P Jayamurthi and Dr. AK Dixit. Technical session about trypsinization, subculturing, plating, morphological analysis, primary cell culture, live-dead detection and apoptotic cell detection.	<b>Dr. P Jayamurthi Dr. AK Dixit Dr. SK Pandey</b>	30
19-02-2022	Invited talks by Dr. Shirish Shukla, Dr. Yogendra Padwad, Mr. Ram P Singh. Technical session involved training in determination of contamination, MTT Assay, extraction of plant extract, fluorescence microscopy.	<b>Dr. Shirish Shukla Dr. Yogendra Padwad Mr. Ram P Singh Dr. SK Nirala</b>	30
20-02-2022	Invited talks by Dr. Samarendra Singh, Dr. Vikas Chandra, Dr. Ajay Kumar. Technical session was about Crystal violet assay, plating cells for 3D Spheroids, detection of apoptotic cells, wright-geimsa staining, plating for wound healing assay.	<b>Dr. Samarendra Singh Dr. Vikas Chandra Dr. Ajay Kumar</b>	30
21-02-2022	Invited talks by Prof. Alok Chandra Bharti, Dr. Rohit Seth, Dr. VN Tripathi. Technical session involved training in determination of IC50, Wound healing assay, Animal cell lysis for protein extraction.	<b>Prof. Alok Chandra Bharti Dr. VN Tripathi Dr. Rohit Seth</b>	30
22-02-2022	Invited talk by Prof. LVKS Bhaskar, Knowledge assessment test, Feedback & interactive session. Valedictory Function	<b>Prof. LVKS Bhaskar</b>	30



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

Animal Cell culture Techniques and Applications 2022 or ACCTA 2022 was a seven days hands on workshop which consisted of technical training and invited talks by subject experts and domain experts around the country. This workshop included participants around the country and the region engaged in areas of biology, biotechnology, biomedicine etc. This workshop aimed to help participants get familiar with animal cell culture techniques and provide insights about its current and prospective applications in basic scientific 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. Shailendra Kumar, 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 some speakers from some notable national and international industry leaders like Dr. Shirish Shukla form the Jahnssen pharmaceutical companies of Johnson & Johnson, Pennsylvania, USA; Mr. Ram P Singh from Roche Diagnostics Pvt. Ltd. Various experts from academia delivered their talks, notable among them were Prof. Alok Chandra Bharati from Delhi University; Dr. Ajay Kumar and Dr. Samarendra Singh from Banaras Hindu University; Dr. Yogendra Padwad from CSIR-IHBT, Dr. P Jayamurthi, Principal Scientist CSIR-NIIST; Dr. SC Sonkar from Multi Disciplinary Research Unit, MAMC, University of Delhi; Prof. LVKS Bhaskar form this University. 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 relating to animal cell culture laboratory which included media preparation and sterilization, cell counting, plating, determining contaminations and troubleshoot various problems in an animal cell culture lab. Participants also learnt to perform various primary cell culture methods and various assays like MTT, Crystal violet, wound healing assay etc. Participants were not just taught about how to perform experiments in an animal cell culture lab but also taught about how to troubleshoot when faced with undesired results. This Workshop aimed to train students about techniques of animal cell culture and how its application can bring forth many breakthroughs in basic science research. Participants went through a knowledge assessment test to understand their response and feedback was also collected at the end.





**Image- Hon'ble VC inaugurating the workshop; Dignitaries present at the inauguration of ACCTA 2022.**



**Image- Invited talks being delivered by expert; Glimpses of participants of MDAA-2022 engaged in performing various technical hands-on training.**

*@Bhatt*

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