

Report on National Workshop on Animal Cell Culture: Techniques and Applications 2018

Department of Biotechnology, Guru Ghasidas Vishwavidyalaya

Date of Event : January 18-24, 2018

Venue : Department of Biotechnology, Guru Ghasidas Vishwavidyalaya



Brochure of National Workshop on Animal Cell Culture: Techniques and Applications 2018



Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
18-01-2018	Technical Session - I (Invited Lecture); Technical Session - II (Lab Session)	Prof. Alok Chandra Bharti, Department of Zoology, University of Delhi, Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, GGV, Bilaspur	20
19-01-2018	Technical Session - III (Participant's Presentation); Technical Session - IV (Invited Lecture); Technical Session - V (Lab Session); Technical Session - VI (Lab Session)	Prof. Kalpana Pai, Department of Zoology, Banaras Hindu University, Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, Dr. Harit Jha, GGV, Bilaspur	20
20-01-2018	Technical Session - VII (Participant's Presentation); Technical Session - VIII (Invited Lecture); Technical Session - IX (Lab Session)	Dr. Yogendra Padwad, Principal Scientist, CSIR-IHBT; Dr. P. Jayamurthi, Scientist, CSIR-NIIST, Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, Ms. Alka Ekka, GGV, Bilaspur	20
21-01-2018	Technical Session - X Participant's Presentation; Technical Session - XI Invited Lecture; Technical Session - XII (Lab Session); Technical Session - XIII (Lab Session)	Dr. AK Dixit, Dr. VN Tripathi, Dr. Rohit Seth, Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, GGV, Bilaspur	20



22-01-2018	Technical Session - XIV Participant's Presentation; Technical Session - XV Invited Lecture; Technical Session - XVI (Lab Session); Technical Session - XVII (Lab Session)	Dr. SK Nirala, Dr. SK Pandey, Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, GGV, Bilaspur	20
23-01-2018	Technical Session - XVIII Participant's Presentation; Technical Session- XIX (Lab Session); Technical Session- XX (Invited Lecture); Technical Session- XXI (Lab Session)	Prof. PK Patra, Dean, Chhattisgarh Institute of Medical Science (CIMS), Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, GGV, Bilaspur	20
24-01-2018	Technical Session- XXII Invited Lecture; Technical Session-XXIII Lab Session; Technical Session-XXIV Feed Back/Assessment Session; Valedictory and Certificate Distribution	Dr. Naveen Kumar Vishvakarma, Dr. Dhananjay Shukla, Dr. Renu Bhatt, Dr. Archana Bhaskar, Dr. Archana Kumari, GGV, Bilaspur	20

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

Department of Biotechnology has organized a seven days "National Animal Tissue Culture Workshop" (18-Jan-2018 to 24-Jan-2018). Twenty faculty/students from different part of India participated in workshop. Participant was benefited by listening lecture by Prof Alok Bharti, Delhi University, Prof Kalpana Pai, Banaras Hindu University, Prof. P.K.Patra, Dean, CIMS (C.G), Dr Aarti Pandey, Professor, Department of E.N.T, CIMS, Bilaspur, and Dr. Renu Bhatt, Head of Department of Biotechnology GGV Bilaspur. Workshop was successfully completed under the guidance of Dr Renu Bhatt convener of the program and hands on training of cell culture by course coordinators Dr. N. Vishwakarma and Dr D. Shukla. They taught the participants about different animal cell lines, microscopy, cell culture maintenance, isolation of cell and bone marrow aspiration etc.



On day 1 after registration and inauguration ceremony there was invited lecture of Prof. Alok Chandra Bharti, Department of zoology, University of Delhi on the topic Animal cell culture : **A gift from cancer research that transformed modern biology and biotechnology.**

On day 2 there was invited lecture of Prof Kalpana Pai on the topic **Bone marrow colony assay for in vitro differentiation**, after that there was lab session in which participants have learned media preparation, filter sterilization, primary cell culture, cell counting and plating cells for colony assay.

On day 3 there were presentations by participants after that there was invited lecture of Dr. Yogendra Padwad Principal Scientist, CSIR-IHBT on the topic **Primary and 3D cell cultures and their applications in biomedical research.** Second lecture was done by Dr. P. Jayamurthy Scientist, CSIR-NIIST on the topic In vitro modeling of diabetic pathology in cell culture. After lunch there was lab session in which participants have learned cell line handling and Viability assay.

On day 4, there was invited lecture of Dr. A.K. Dixit, GGV on the topic Herbal extraction and impact on cell lines, and lecture by Dr. VN Tripathi, GGV, on the topic: **Role of cell culture techniques in bacterial infections studies of eukaryotic organisms.** The second lecture by Dr. Rohit Seth, GGV, on the topic **Flow Cytometry analysis of cells.**

On Day 5 after presentations by participants there was invited lecture of Dr. S.K. Nirala, GGV, on the topic **Histopathology and cytochemistry**, and by Dr. S.K Pandey, GGV, on the topic **Application of cell culture in assessment of environmental immunotoxicity.**

On Day 6 after presentations by participants there was invited lecture of Prof. P.K. Patra. CIMS, Bilaspur on the topic **Application of cell culture in medical biotechnology.**

On Day 7 there was invited lecture by Dr. Renu Bhatt, GGV on the topic **PPAR-alpha and cisplatin nephrotoxicity in kidney cell line.** After that there was lab session followed by Valedictory function where participants expressed their views on the workshop. The faculties who have participated in the workshop were willing to start animal cell culture laboratory in their institute/university. The certificate was distributed to all the participants.

The financial assistance from SERB (DBT), ICMR and CCOST were acknowledged.



Dr. Kalpana Pai delivering her talk on hematopoiesis and its study through Animal cell culture.



Participants learning tissue maceration for preparation of single cell suspension for cell culture.

Q. Shatt

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