



# King George's Medical University, U.P., Lucknow

## Office of the Research Cell

*Prof. R. K. Garg*  
Faculty Incharge

No.: 07/R.Cell-18  
Date: 24/07/2018

### NOTICE

The lectures of PhD Foundation Course will be held from 3<sup>rd</sup> August 2018 onwards (Lecture schedule attached). The PhD Foundation Course lectures will be held in the Lecture Room, Kalam Centre, KGMU.

As per the Ph.D. Statutes it is mandatory for all Ph.D. and Post MD-Ph.D. Students to take this Course.

*R K Garg*  
(R. K. Garg)  
Faculty Incharge


#### *Distribution:*

- Notice Book
- The Dean, Faculty of Medicine, KGMU, Lucknow
- The Dean, Faculty of Dental Science, KGMU, Lucknow
- The Dean, Faculty of Nursing, KGMU, Lucknow
- All the Heads of Departments, KGMU, Lucknow with the request to circulate it among all the PhD/ Post MD-Ph.D. students and Guides in the department
- Prof. Shailendra K. Saxena, Centre for Advance Research, KGMU, Lucknow
- Faculty In-charge, IT Cell, KGMU, Lucknow with the request to upload it on the KGMU website



**K. G's Medical University PhD Program  
Centre for Advance Research (CFAR), KGMU**

CFAR-Teaching & Training Program for PhD Foundation Course 2018-19 (Venue: Kalam Centre, KGMU)							
S.No	Topic	From	To	Date	Day	Faculty	Unit
	Orientation Programme (As per the consent of Hon'ble VC, KGMU)						
1.	Lab Safety and Security	3:00 PM	4:00 PM	3/8/2018	Fri	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
2.	BMW Management	3:00 PM	4:00 PM	7/8/2018	Tue	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
3.	Sterilization and disinfection in laboratory sciences	3:00 PM	4:00 PM	10/8/2018	Fri	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
4.	Common laboratory related issues & their solutions	3:00 PM	4:00 PM	14/8/2018	Tue	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
5.	Preparation of protein containing (e.g. serum) & other sterile reagents	3:00 PM	4:00 PM	17/8/2018	Fri	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
6.	Introduction to Molecular Biology: • Principle of DNA and RNA • Isolation DNA, RNA and its quality check	3:00 PM	4:00 PM	21/8/2018	Tue	Dr. Neetu Singh	Molecular Biology
7.	Tools in Molecular Biology: PCR and its application,	3:00 PM	4:00 PM	24/8/2018	Fri	Dr. Neetu Singh	Molecular Biology
8.	Real Time PCR-Principle and Application	3:00 PM	4:00 PM	28/8/2018	Tue	Dr. Neetu Singh	Molecular Biology
9.	Agrose Gel Electrophoresis	3:00 PM	4:00 PM	31/8/2018	Fri	Dr. Neetu Singh	Molecular Biology
10.	Genomics and future health perspective: • Types of genetic alterations • Future molecular testing methods • Gene chips & Genotyping	3:00 PM	4:00 PM	4/9/2018	Tue	Dr. Neetu Singh	Molecular Biology
11.	Sequencing: Whole genome, Next generation sequencing (NGS), Transcriptome	3:00 PM	4:00 PM	7/9/2018	Fri	Dr. Neetu Singh	Molecular Biology
12.	Proteomics and its clinical Relevance: • Protein separation • 2D DIGE and Biomarker development	3:00 PM	4:00 PM	11/9/2018	Tue	Dr. Ashutosh Shrivastava	Molecular Biology
13.	ELISA: Technique and applications	3:00 PM	4:00 PM	14/9/2018	Fri	Dr. Ashutosh Shrivastava	Molecular Biology
14.	Immunohistochemistry: Technique and applications	3:00 PM	4:00 PM	18/9/2018	Tue	Dr. Ashutosh Shrivastava	Molecular Biology
15.	Overview of Metabolomics and its clinical application	3:00 PM	4:00 PM	25/9/2018	Tue	Dr. Ashutosh Shrivastava	Molecular Biology
16.	Spectrometry: Principle and its application in Cancer Metabolomics	3:00 PM	4:00 PM	28/9/2018	Fri	Dr. Ashutosh Shrivastava	Molecular Biology
17.	Gas chromatography and metabolite quantitation	3:00 PM	4:00 PM	5/10/2018	Fri	Dr. Ashutosh Shrivastava	Molecular Biology
18.	Flow cytometry and its application	3:00 PM	4:00 PM	9/10/2018	Tue	Dr. Satyendra K. Singh	Stem Cell/ Cell Culture
19.	Tools & techniques in cell biology: • Primary and secondary cultures, • Cell separation, characterization, differentiation and transformation • Cytotoxicity and Cryopreservation	3:00 PM	4:00 PM	12/10/2018	Fri	Dr. Shailendra K. Saxena	Stem Cell/ Cell Culture
20.	Basics about stem cells • What are the embryonic, adult stem cells and cancer stem cell? • Role of transcription factors in stem cells self renewal and differentiation.	3:00 PM	4:00 PM	16/10/2018	Tue	Dr. Satyendra K. Singh	Stem Cell/ Cell Culture
21.	Epigenetic regulation of adult and cancer stem cells.	3:00 PM	4:00 PM	23/10/2018	Tue	Dr. Satyendra K. Singh	Stem Cell/ Cell Culture
22.	Identification and characterization of adult and cancer stem cells	3:00 PM	4:00 PM	26/10/2018	Fri	Dr. Satyendra K. Singh	Stem Cell/ Cell Culture

  
 Faculty Incharge  
 Centre for Advance Research  
 K.G's Medical University  
 Kalam Centre, KGMU