



Science Academies' Refresher Course

on

“Molecular Biology of Cell”

at



The Department of Biochemistry,
University of Kashmir, Srinagar-190006
(October 23 –November 06, 2017)



Sponsored by

Indian Academy of Sciences, Bangalore
Indian National Science Academy, New Delhi
The National Academy of Sciences, Allahabad

Applications are invited for participation in a two-weeks intense refresher course cum workshop on “Molecular Biology of Cell” to be conducted at Department of Biochemistry, University of Kashmir, Srinagar, Jammu & Kashmir. The candidates (preferably born in/after 1970) who are actively engaged in teaching Bio-science courses at undergraduate and post-graduate levels in Colleges/Universities are eligible to apply. A total number of 30 outstanding candidates in the ratio of 1:1 (local/outstation) will be selected for participation in the course. The candidates if selected shall be required to get themselves officially relieved by their host institute. The selected candidates will be provided with round-trip bus/train (III AC) fare by the shortest route and local hospitality during the course. Applications should be submitted ONLINE by copying and pasting the following link on your web browser:

<http://web-japps.ias.ac.in:8080/Refreshcourse/RUOK.jsp>

The refresher course will have (A) Theoretical component and (B) Experimental Component

- (A) The Theoretical Component will intensely cover the following molecular biology topics:
- (1) DNA replication and cell division
 - (2) Protein structure-function, protein-protein interaction
 - (3) Genome organization and Epigenetic control of gene regulation
 - (4) Recombinant DNA technology/ Genetic engineering
 - (5) Advanced molecular biology techniques
 - (6) Cell signaling pathways
 - (7) Cellular immunology
 - (8) Basics in Bioinformatics and Molecular modeling
- (B) The Experimental Component will cover the following lab experiments/ practicals:
- (1) Transformation of bacteria with plasmid DNA. Purification and analysis of plasmid DNA using agarose gel electrophoresis. Quantification of DNA using spectrophotometry.
 - (2) Analysis of recombinant proteins using SDS-polyacrylamide gel electrophoresis
 - (3) Western blotting.

The Application Deadline is October 01, 2017.

Organizing Committee

Prof. Khurshid Andrabi , Vice Chancellor, University of Kashmir (Patron)
Prof. Suman. K. Dhar, Special Center for Molecular Medicine, JNU (Course Director)
Prof. Akbar Masood, Head, Dept. Of Biochemistry, University of Kashmir (Secretary)
Dr. Mohd Ashraf Dar, Department of Biochemistry, University of Kashmir (Course Coordinator)

Head, Department of Biochemistry