Science Academies' Refresher Course on Molecular Biology of Cell

at

The Department of Biochemistry, University of Kashmir, Srinagar 190 006
(23 October–6 November 2017)

Sponsored by

Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences, India, Allahabad

Applications are invited for participation in a two-weeks intense refresher course on 'Molecular Biology of Cell' to be conducted at Department of Biochemistry, University of Kashmir, Srinagar, Jammu and Kashmir. The candidates (preferably born in/after 1970) who are actively engaged in teaching bio-science courses at undergraduate and postgraduate levels in Colleges/Universities are eligible to apply. A total number of 30 outstanding candidates will be selected for participation in the course. The local and outstation candidates will be preferably selected in a ratio of 1 : 1. The candidates if selected for participation in the refresher course will be required to get a reliving order from their host institute duly signed by Institutional Head/Principal. 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 clicking the following link:

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

Course Director: Prof. Suman K. Dhar, Special Center for Molecular Medicine, Jawaharlal Nehru University, New Delhi 110 067, e-mail: ashjnu@gmail.com.

The contact address of the Course Coordinator: **Dr Mohd Ashraf Dar**, Department of Biochemistry, University of Kashmir, Srinagar 190 006.

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

(A) The Theoretical Component will intensely cover the following molecular biology subjects:
(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.

Last date for receipt of application: **1 October 2017**.