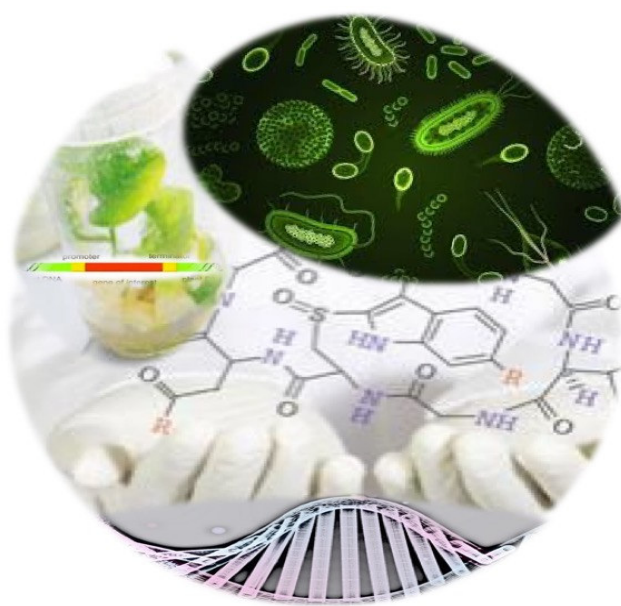


*One day e-Workshop for
Science Teachers (Class IX-XII)*

‘Biomolecules, Bio resources and Biotechnology’

15th January, 2021



Organizing Secretaries

Dr. Aruna Tyagi, Dr. Jasdeep Chatrath Padaria & Dr. Archana Suman

Organised by



Div. of Biochemistry, ICAR-IARI, Pusa Campus, New Delhi
&
Society for Plant Biochemistry and Biotechnology, New Delhi



SPBB

Amongst diverse aims and objectives, SPBB fosters high standards in teaching and research in the areas of Plant Biochemistry, Molecular Biology, Molecular Genetics and Biotechnology.

Workshop Objectives

We are proposing a workshop on “Biomolecules, Bio resources and Biotechnology for class IX-XII science teachers on 15 January 2021. All these topics are part of class IX-XII NCERT syllabus. The NCERT Syllabus strengthens the ideas introduced in the lower classes and provides exposure to students to learn new concepts. The syllabus tries to correlate the study of Biology to real-life problems. Biomolecules include macromolecules such as proteins, carbohydrates, lipids, and nucleic acids, as well as small molecules such as primary metabolites, secondary metabolites and natural products that are essential to one or more typically biological processes, Bio resources are natural renewable sources like organic wastes and naturally formed or formable raw materials from human and animal activities. In large quantities they are generated by industries or mills in the agriculture, forestry, marine, and municipal sectors. With the advent of Recombinant DNA Technology, its scope and application have been realized in all spheres of biological sciences to ease and improve the quality of human life. It has also become essential to disseminate the fundamentals behind the technology to its end user properly and in scientific manner. The proposed workshop will apprise the participants of basic concepts of macromolecules and recombinant DNA technology and their utility in the development of transgenic crops. Teachers are entrusted with the major social responsibility of enlightening the young minds and this workshop shall train the teachers so that they are able to pass on the knowledge to their students. Biological studies find immense use in environment, industry, health and agriculture. The workshop will include theory lecture and practicals, bio fertilizer pilot unit etc. in the form of videos. Thus, workshop aims to familiarize the science teachers with these new and practical aspects which can then be transferred to students.

About the Division of Biochemistry, ICAR-IARI, New Delhi

Recognizing the importance of biochemical studies in crop research, the Division of Biochemistry was created in 1966 as a separate Division, with major emphasis on Molecular Biology, Plant Biochemistry and Nutrition. It owes its origin to a section of Plant biochemistry in the Division of Soil Science and Agricultural Chemistry. Since its inception, the Division has acquired the best research, teaching and training facilities, and takes legitimate pride in being recognized as the only Centre of Advanced Faculty Training (CAFT) in Biochemistry in NARS by ICAR ever since 1995. Currently, the Division with limited scientific strength is conducting research on potentially applied aspects in the fields of Plant Biochemistry and Molecular Biology with major emphasis in the areas of abiotic stress tolerance, nutritional quality enhancement and assessment in cereals, millets and Pulses.



Contact us

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