A REPORT ON LECTURE WORKSHOP ORGANIZED BY INDIAN ACADEMY OF SCIENCES, INDIAN NATIONAL SCIENCE ACADEMY AND THE NATIONAL ACADEMY OF SCIENCES AT MAHARANI LAKSHMI AMMANNI COLLEGE


February 26, 2009:

Inaugural Function: On Feb 26, 2009 an informal inauguration of the lecture workshop took place at K.N. V. Shastry Auditorium, MLACW campus between 0945-1000. Prof. Mukunda, Chairman of Science Education Panel of Indian Academy of Sciences graced the occasion with his august presence. He briefed the audience about the various education oriented activities conducted by the Academy. Mr. Mahadevan, Executive Secretary for Science Education Panel, Indian Academy of Sciences, Prof. Dipankar Nandi from Dept. of Biochemistry, IISc were present during the inauguration.

Other dignitaries on the dais were Dr. T.L. Shantha, Director of MLACW, Prof. K.S. Bharathi, Principal of MLACW and Dr. M.B. Nagaveni, Co-ordinator of the workshop. Prof. V. Nagaraja, Convenor of this workshop could not attend the inaugural function due to prior commitments. However he visited the workshop during afternoon session.

Lecture session: Morning (1000-1245)

First two lectures of morning session was handled by Prof. Dipankar Nandi, Associate Professor from Dept. of Biochemistry, IISc, on “The arsenals of the adaptive immune system-I” and “The arsenals of the adaptive immune system-II”. He spoke about basic aspects of immunology-humoral and cell mediated.

Lecture session: Afternoon (1400-1720)

Dr. Dipshikha Chakrabortty, Assistant Professor from Dept. of Microbiology & Cell Biology, IISc spoke on “Here goes the bell tolling: Toll like receptors in health and disease”:

She spoke about toll like receptors and their significance in disease control and the role of innate immunity in recognizing the peptide and non-peptide antigen.

Prof. Anjali A. Karande gave a lecture on “The technology that changed serology”. She gave an overview of production of monoclonal antibodies from historical perspective up to recent developments in hybridoma technology. She spoke in detail about significance of monoclonal antibodies in therapeutic and diagnostic aspects.
Prof. V. Ravi, Head, Dept. of Neurovirology, NIMHANS gave a stimulating lecture on “Design and development of immunodiagnostics”. He elaborated on different diagnostic kits. He also explained his pioneer work in developing diagnostic kits for HIV, JEV and Hepatitis B.

Feb 27, 2009

Lecture session: Morning (1000-1245)

First two lectures of morning session was handled by Prof. R. Manjunath on “Self and non-self: the was and is of immunology-I” and “Self and non-self: the was and is of immunology-II”.

He threw light on origin of immunology as a science. He highlighted the eminent discoveries in various branches immunology. His lecture encompassed structure, types and functions of immune cells and their clonal selection.

Lecture session: Afternoon (1400-1720)

Prof. UdayKumar Ranga from JNCASR, delivered a lecture on When the protector fails to protect: why the immune system fails to contain HIV. He spoke on transition of HIV positive state to manifestation of AIDS, high prevalence of AIDS in Karnataka as per statistical analysis, preventive measures and need for awareness in people. He gave a hope for development of vaccine against HIV in future.

Dr. K.N. Balaji, faculty from Dept. of Microbiology & Cell Biology from IISc, in his lecture on “Host-bacterial responses during Mycobacterium tuberculosis Infections”, detailed about invasion, evasion of M. tuberculosis infection and immune response for the same. He spoke on pathogenesis, symptomatology, epidemiology, diagnosis, prophylaxis and treatment. He also highlighted the risk from antibiotic resistant strains of M. tuberculosis.

Prof. P.N. Rangarajan, Associate professor from Dept. of Biochemistry, IISc gave a detailed account on heat killed, attenuated vaccines. He gave an overview of production of recombinant vaccines, DNA vaccines, multiple sub-unit vaccines and edible vaccines in his lecture on “Vaccines: past, present and future”.

Around 250 participants comprising teaching and student fraternity from 32 colleges of Bangalore participated in the lecture workshop.