

❖ Name & Designation	: Mr. Abhishek Kumar Singh, Research Scholar
❖ Address	: Dept. of Medicine (ICMR-SRF), BHU, Varanasi
❖ Name of the International Conference/ Seminar/Symposium/ Workshop	: FEBS EMBO-2014
❖ Title of the abstract accepted	: Higher parasite burden in asymptomatic individuals in endemic area of visceral leishmaniasis.
❖ Venue & Date	: Paris, France, 30th August to 4th September 2014.
❖ Money sanctioned	: ₹ 92,285/-
❖ Money reimbursed	: ₹ 92,285/-

Participation Report

About the organization of the conference:

More than 100 outstanding scientists (Speakers) from different countries addressed today's challenges and potentials in Life Sciences in different application areas from the academic as well as from the industrial perspective. The Federation of European Biochemical Societies (FEBS), EMBO - Excellence in life sciences, and the French Society for Biochemistry and Molecular Biology (SFBBM) had held a joint conference for the life sciences in this year. The FEBS is one of Europe's largest organizations in the molecular life sciences, with over 36,000 members across more than 35 national biochemistry and molecular biology societies in Europe and neighboring regions. EMBO is an organization of more than 1500 leading researchers that promotes excellence in the life sciences. The French Society for Biochemistry and Molecular Biology develops and promotes Biochemistry and Molecular Biology in research and teaching, both in universities and centers of research as well as industry. Members of the organization are involved in learned societies devoted to biochemistry at the international level. There were 9 plenary lectures, 4 plenary sessions, 8 concurrent sessions on different topics of life sciences, many satellite symposia by different field Scientist with each day poster session, company's sessions covering different applications areas including 2 Keynote lectures. Each session included 2-3 invited speakers.

Academic Highlights

Day 1

Theme for first session was Membrane trafficking, signaling and cell mechanism/Cell imaging that were presented by Dr. Britta Qualmann from University of Jena, Dr. Elizabeth Smythe from

University of Sheffield and Dr. Christian Eggeling from University of Oxford respectively. After this satellite symposium two presentations were presented by Dr. Catherine Dulac from Harvard University and Dr. Svante Paabo from Max Planck Institute for Evolutionary Anthropology on the topic of Molecular and Neural Architecture of Social Behavior in Mouse and A Neanderthal perspective on Human Origins respectively. These Satellite Symposium and Lecture were done by after opening Introduction and welcome messages from SFBBM, EMBO and FEBS in Grand Auditorium of Palais des Congress de Paris. First day of the conference was finished by the presentation of Carrier Day-EMBO on Paper writing.

Day 2:

I had attended the session on Inflammation and Diseases in morning session. This session complied of different topics, Immune pathway in the Intestine in health and Disease, Homeostasis and Inflammation, Sodium vitamin C co transporter-2 regulates the activation of microglial cells, The mammalian target of rapamycin controls PolyI: C-induced antiviral and inflammatory cytokine responses in human conventional dendritic cells and The Active enhancer network operated by ligand RXR support Angiogenic activity in Macrophages that was presented by Dr. Fiona Powrie from University of Oxford, Dr. Ruslan M. Medzhitov, Dr. Antonio Francisco Ambrosio from University of Coimbra, Dr. Tunde Fekete and Dr.Laszlo Nagy from University of Debrecen respectively.

After this session I had attended the Indian session that was basically directed for Indian Student. The theme of this session was Life Sciences opportunity in India that includes the program: grant for young scientist and Indo French opportunity that was organized by India Bioscience and Welcome Trust DBT India Alliance. Today's session end with the presentation of Biosafety: all for one; one for all and Food and biofuels from large scale algae mass culture: Opportunity and Challenges by Dr. Mario Tredici, University of Florence.

Day 3:

The theme for this morning session was Chromosomal structure, Centromeres & telomeres. In this session different topic covers as fallow Telomeric Chromatin in health and Disease, Dissection of centromere chromatin and components, Telomerase inactivation generates heterogeneous cryptic cell lineages, Allele specific Modulation of c-Myc Expression by Distant

Regulatory and Connecting chromosome replication and segregation: DNA topology and SMC that was presented by Dr. Joachim Lingner, Dr. Patrick Heun from Max Plank Institute of Immunobiology & Epigenetics, Dr. Zhou Xu, Dr. Veli Uslu from EMBL and Camilla Sjogren from Karolinska Institutet respectively.

After this session next presentation was done on the topic of Epigenetics and gene expression by the Dr. David Baulcombe from University of Cambridge in the presence of Chairperson Dr. Susan M Gasser from Friedirch Miescher Institute, Basel. And the session was ended with presentation of EMBO Scientific Publishing Session.

Day 4:

The morning session of day 4 topics was Mitochondria & Mitochondrial disorders that covers presentation topics as fallow Biogenesis and transport of mitochondrial proteins, Biogenesis of iron-sulfur protein in eukaryotes, Nutrient- sensing signaling pathways determine the outcome of mitochondrial dysfunction, structure of mitochondrial Translator protein in complex with a Diagnostic ligand and can we rescue human mitochondrial tRNA mutation? that was presented by Dr. Agnieszka Chacinska, Dr. Roland Lill from Philipps University Marburg, Dr. Cory Dunn from Koc University, Dr. Lukasz Jaremko and Dr. Robert Lightowlers from Newcastle University.

Afternoon the session covers the topic on Bioinformatics & system Biology that was presented by Dr. Richard Durbin from welcome Trust Sanger Institute on the topic of Human Genetic Diversity and Functional Variation. And 4th day session was finished with the presentation of FEBS Education Session (What skill & knowledge to improve molecular life Science Education) with the chairperson Dr. Francesco Michelangeli from University of Birmingham.

Day 5:

The Day 5 session theme was related to the Cancer Signaling. In this theme five presentations were presented by Scientists that is described here. Role of Erk pathway component in tumor genesis, Dissecting Myc-dependent transcriptional programs during tumor progression, TPL 2 Kinase is a suppresser of lung carcinogenesis, Oncogene driven redox signaling in tumor cell survival and Roles for Growth factor in tumor progression: Opportunity for Cancer was presented by Dr. Manuela Baccarini, Dr. Bruno Amati from European Institute of Oncology &

Italian Institute of Technology, Dr. Aristides Eliopoulos, Dr. Tom Cotter from University college Cork and Dr. Yosef Yarden from Weizmann Institute of Science respectively.

Afternoon session belong to the topic of Gene diversity & Immune recognition by the Dr. Michael Reth from Max Plank Institute of Immunology and Epigenetics under the chairperson of Dr. Alexander Gabibov from Russian academy of Sciences. And 5th day session was ended with my poster presentation and another FEBS Educational session – New technologies available to teach molecular life science.

Day 6:

Day 6 was the last day of conference in which morning session theme was Host pathogen interaction/ Bacterial Pathogenesis that was presented by Dr. Philippe Sansonetti from Institute Pasteur, and Dr. Pascale Cossart from Institute Pasteur in the presence of chairperson Dr. Hugues Lortat- Jacob from Institute de Biologie Structurale, CNRS, CEA, Universite Grenoble-Alpes, France. And after this session the conference organizes a closing session in which they concluding the remarks of conference and announces the next meeting in Birmingham, UK.

SUMMARY OF THE SCIENTIFIC CONTRIBUTION BY THE PARTICIPANT

Participant's Contribution to the Conferences

During the course on FEBS EMBO 2014 at Palais des congress de Paris, Paris, France; I presented my findings and ongoing research on the Visceral Leishmaniasis (VL) by using the methodology ELISA, Direct agglutination test (DAT) and Quantitative PCR (Q PCR) technique as a poster presentation. Since these techniques are very sensitive and specific with having detection of asymptomatic infection as well as parasitic burden to know in our healthy individuals blood samples for finding the progression to disease cases. I presented this, have been supported by all inventors and scientists and gave some suggestion to improve our data. I presented current scenario and ongoing research on Leishmaniasis in India, with immunological parameters (Leishmania antibody status) to immunologist from Muzaffarpur state Bihar, India. I also discussed my work in control of Leishmaniasis regarding asymptomatic studies in India. My presentation like and regarded by participants and scientist.

In conclusion the attending of this conference provided me with the opportunity to represent India at an international forum. I also reaped the benefits of seeing the current research in our field up close and the latest technologies that are being used such an experience can help me in defining my future research career and the contacts established at this conference can be useful at later times to establish mutually beneficial collaborations.

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