

- ❖ **Name & Designation** : Dr. Sonam Grover, Project Fellow
- ❖ **Address** : School of Biotechnology, JNU, JNU New Campus,
New Delhi-110067
- ❖ **Name of the International Conference/
Seminar/Symposium/ Workshop** : International Conference on Bioinformatics-2014
- ❖ **Title of the abstract accepted** : Computational identification of novel natural inhibitors of
glucagon receptor for cheking type II diabetes mellitus.
- ❖ **Venue & Date** : Australia, 31st July to 2nd August 2014.
- ❖ **Money sanctioned** : ₹ 1,00,000/-
- ❖ **Money reimbursed** : ₹ 1,00,000/-

Participation Report

The International Conference on Bioinformatics, 2014 was held at Sydney, New South Wales, Australia between 31st July-2nd August 2014 focused on various important fields of Bioinformatics related to recent progress in genomics and proteomics research. Research students, Scientists, Experts in the field of bioinformatics, and persons from proteomic industries from nearly 28 countries, mainly Asian countries participated in the conference.

Sessions were titled under the topics like genome and transcriptome informatics, proteomics, structural bioinformatics and sequencing which included 8 plenary lectures, 3 corporate lectures, 80 session lectures and about 50 posters.

Appendix-II

Benefits of attending:

It was an honor for me to participate and present my research work in the renowned meeting of **International Conference on Bioinformatics, 2014 (IncoB 2014)**. The research work being pursued by me is well in accord with the main theme of the conference –Bioinformatics. The research work I presented at IncoB gave me an insight into the finding of novel natural inhibitor of Glucagon Receptor which is a target for treating type II diabetes mellitus. Through this meeting, I got a golden opportunity to interact with the peers in the field of ‘molecular docking and molecular dynamic simulations’. The meeting has provided me an excellent intellectual platform to exchange ideas, to learn novel tools and methods and know about current trends in this field and possibilities of collaborations. I am sure that participation in this meeting will also help in addressing my research problem in a proficient and competent manner.

New developments presented at the conference:

The conference had a variety of lectures from eminent scientists from the field of bioinformatics. Prof Gill Omenn the one of the contributor of human proteome project (HUPO) presented the strategies and progress of HUPO which gave the audience a new paradigm to decipher the human proteome including post translational modification. There were also important lectures on next generation sequencing, system biology and *in silico* study the post translational modification of protein.

New development resulting from the conference

The conference had a variety of lectures from researchers who delivered their insights on topics listed under following titles, Genome & Transcriptome Informatics, Proteome Informatics,

Structural Bioinformatics, Bioinformatics Software testing & Quality Assurance, Sequencing & Sequence analysis, Systems Biology, Disease Informatics, Immunoinformatics, Ontology, and Bioinformatics Education and Training. The promotion of bioinformatics and hardcore computational biologists was also under the scope of discussion in the conference. Its application as a time-efficient domain was well established in the field of medicine, pathology and immunology where time plays the biggest role. The deliberations and recommendations of the conference will have a significant impact on future directions of computational application in the field of biology, evolutionary science and medicine. Such applications can be developed as part of business strategic alliances, partnering trends, product opportunities, growth, business models, outsourcing etc.

Appendix-III

Participant's contribution to the conference

I presented my paper on the first day of the conference between 1:30-1:45 PM in the session Structural Bioinformatics, titled 'Computational identification of novel natural inhibitors of glucagon receptor for checking type II diabetes mellitus'. Dr Durai Sundar, Associate Professor Department of Biochemical Engineering and Biotechnology, IIT Delhi was the chair for the session. After the presentation several questions were asked by the audience and answered in a satisfactory way. The presented work was also accepted for the publication "BMC Bioinformatics".