

## Structural genomics and its importance for gene function analysis

Anil batta

Professor & head,  
Department of medical biochemistry, govt.medical college,  
India



### Abstract

Structural genomics projects aim to solve the experimental structures of all possible protein folds. Such projects entail a conceptual shift from traditional structural biology in which structural information is obtained on known proteins to one in which the structure of a protein is determined first and the function assigned only later. Whereas the goal of converting protein structure into function can be accomplished by traditional sequence motif-based approaches, recent studies have shown that assignment of a protein's biochemical function can also be achieved by scanning its structure for a match to the geometry and chemical identity of a known active site. Importantly, this approach can use low-resolution structures provided by contemporary structure prediction methods. When applied to genomes, structural information (either experimental or predicted) is likely to play an important role in high-throughput function assignment.



### Biography:

Prof. Dr. Anil Batta is presently professor & Head with senior consultant in Govt. Medical College, Amritsar. He did his M.B.B.S. and M.D. in Medical Biochemistry from Govt. Medical College, Patiala in 1984 and 1991, respectively. His research interest is mainly in clinical application especially cancer and drug de-addiction. He has supervised more than 25 M.D., M.Sc. and Doctorate researches and published more than 130 international research papers. He is the chief editor of America's Journal of Biochemistry. He is also working as advisor to the editorial board of International Journal of Biological and Medical Research. He has been deputed member Editorial Board of numerous International & National Medical

Journals of Biochemistry. He has also been attached as technical advisor to various national and international conferences in Biochemistry. He has been attached as hi-tech endocrinal, genetics and automated labs of Baba Farid Univ. of Health Sciences, Faridkot. He has chaired various sessions in the Biochemistry meets. He has been designated as member Editorial Board of various in US and other European Countries. He is also involved in various research projects at Govt. Medical, Amritsar. He has done superspecialisation in Drug-de-addiction from PGIMER, Chandigarh.

### Speaker Publications:

1. "Comparative study of serum 5' nucleotidase, alkaline phosphatase aminotransferases & bilirubin in alcoholic liver disease"
2. "Hyperglycemia induced oxidative stress and hypomagnesemia: a danger for diabetic patients"
3. "A Comparative Study of Vitamin D Levels in Adult Asthma as Compared to Normal Controls in Patients Attending Tertiary Care Hospital in Faridkot"
4. "A study design of clinical intervention of chromium in diabetics and its biological significance"
5. "Comparative Study of Anxiety Disorders and Personality Disorders in Obsessive-Compulsive Disorder"

[4th International Conference on Protein Engineering](#); Webinar - July 13-14, 2020.

### Abstract Citation:

Dr. Anil Batta, Structural genomics and its importance for gene function analysis, Protein engg meet 2020, 4<sup>th</sup> International Conference on Protein Engineering; Webinar- July 13-14, 2020.

<https://protein-engineering.conferenceseries.com/2020>