Pharmaceutica-2013
3rd International Conference and Exhibition on
Pharmaceutics & Novel Drug Delivery Systems
April 8-10, 2013 Hilton Chicago/Northbrook, USA

Comparative study of data generated by structural annotation of the genome for identifying the unique parameter responsible for pathogenic property of Helicobacter pylori

Hetalkumar Panchal

Sardar Patel University, India

Abstract

Helicobacter pylori are the most common bacterial infection worldwide. They are generally acquired during childhood and the infection can persist in gastric ecosystem throughout the life span of the host, if untreated. There are similarities and the variations in the size of genomes of several strains. The disease causing factor Cag Pathogenic Island is present in almost all the strains but yet the different strains cause different diseases. In present studies, detailed comparative studies of each genomes is carried out to check possibility of prediction of the type of disease it would cause and suggest some target for treatment on the bases of structural annotation. It is found that comparative studies of structural features of genomes give important outcomes but, cannot give detailed idea about the type of disease the strains would cause. Functional analysis of genome or study of gene order and rearrangement of genome may solve the mystery of disease specific genes and give some better target for treatment.

Biography

Hetalkumar graduated and Post Graduated with Biochemistry subject. He did his Post B.Sc. Diploma in Computer Science and Applications (P. G. D. C. A) and his PhD all from Sardar Patel University, Vallabh Vidyanagar-Gujarat (India). Additionally he did Post Graduate Diploma in Bioinformatics (P. G. D. B. I) form Bioinformatics Institute of India, Noida, UTTARPRADESH, INDIA. He has also completed Bachelor of Laws (L.L.B) form Sardar Patel University. He has published many papers in National and International Journals and also in many conferences & Seminars.

Now he is full time Faculty of Bioinformatics at M.Sc. (Bioinformatics) course run at Department of Computer Science, Sardar Patel University, Vallabh Vidyanagar, GUJARAT (INDIA). Currently he is guiding 3 Ph.D students in the subject of Bioinformatics. He has been a mentor of the several dissertation thesis for partial fulfillment of M.Sc. (Bioinformatics) course. He has provided summer training to many students at his lab. He has attended many National and International conferences. He has delivered expert lectures / invited talks in many conferences and seminars. He serves as a visiting faculty / external examiner at various universities. He teaches different subjects like Fundamentals of Biology, Molecular Biology and rDNA technology, Basic and Advance Sequence Analysis, Principles of Biostatistics, Databases in Life sciences, Genomics & Proteomics, Computational Structural Biology, Microarray technology, Drug Designing, etc. He has received Best Paper Award in faculty category at National Conference on “Advanced Data Computing Communications & Security”. He is Member of Indian Science Congress Association (ISCA). Life Member of Computer Society of India.