

An integrated approach for statistical genome sequence analysis between genetic datasets

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20322845&lokasi=lokal>

Abstrak

Genome Sequence Analysis for genetic data

sets by using ORF (Open Reading Frames) techniques is an interesting area of research for bioinformatics researchers nowadays. There is a strong research focus on comparative analysis

between genetic behaviors and diversity of different species. Contrary to whole genome sequence analysis, scientists are now trying to

concentrate specifically on layered analysis to get a better insight of

relevancy among genetic datasets. This phenomenon will help to better understand species. An ORF statistical analysis

for genetic data-sets of species Chimera Monstrosa and Poly Odontidae is presented. For completion of this analysis, we use a hybrid approach that combines a generic mechanism for statistical analysis with specific approach designed for out performance. At first instance, genetic datasets are refined for

better usage at next level. These sets are then passed through layers of filters that perform DNA to Protein

translation. Statistical comparison is performed

during this translation. This layered architecture helps in better understanding of the degree of

similarity and differences in genomic sequences.