DEDICATION

To…

My parents

My sisters

My brothers

And

My all family

To….

my friends who supported me in this work .

To every body suffer from Alzheimer disease .

Acknowledgement

First and foremost, I would like to thank my supervisor, Prof. Saad Daoud for the valuable guidance and advice. He inspired me greatly to work in this project. His willingness to motivate me contributed tremendously to my project.

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Finally, an honorable mention goes to my families and friends for their understandings and supports me in completing this project.

Abstract

This research a interduced new protein data base (AD/AMYDB) which concern with Alzheimer amyloid proteins, ,this data base contains information about 10 amyloid proteins which related to Alzheimer disease, data used taken from NCBI data base ,search with in data base done by using CLC protein work bench.

This program designed for detecting protein-disease (Alzheimer disease) associations based on the human protein sequence and can be used at Alzheimer disease research center .
Misfolding and aggregation of proteins into ordered fibrillar structures is associated with a number of severe pathologies, including Alzheimer's disease, prion diseases, and type II diabetes. The rapid accumulation of knowledge about the sequences and structures of these proteins allows using of *in silico* methods to investigate the molecular mechanisms of their abnormal conformational changes and assembly. However, such an approach requires the collection of accurate data, which are inconveniently dispersed among several generalist databases.

One of the most important tasks of modern bioinformatics is the development of computational tools that can be used to understand and treat human disease. To date, a variety of methods have been explored and algorithms for predicting whether a protein is involved in disease are gaining in their utility.

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