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Background

The 3D structure of biological macromolecules is a key element in understanding biological processes and plays a central role in the discovery of new lead drugs. Till now, less than 5% of the unique structures of human proteins have been determined. Therefore, there is a need to facilitate the process involved in determining structures of proteins based on genomic data. The Weizmann Structural Proteomics Center located in the Dept. of Structural Biology at the Weizmann Institute of Science, has been selected by the Ministry of Science & Technology to be the Israel Structural Proteomics Center (ISPC). It is a member of the Structural Proteomics in Europe (SPINE) consortium and receives support from the Divadol Foundation.

Goals of ISPC

To develop HTP methodologies for cloning, expression, purification, crystallization and structure determination of proteins related to human health and disease.



bioportal.weizmann.ac.il/salertb

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Does a protein fold? Potentially Unfolded regions



8 structures solved in 2003

Human aspartate aminotransferase (GOT1)



Elucidating the 'hot spots' of interactions between TEM mutant and BLIP