

INTRODUCTION

Schizophrenia is a serious mental disorder in which people interpret reality abnormally. Schizophrenia may result in some combination hallucinations, delusions, and extremely disordered thinking and behavior that impairs daily functioning, and can be disabling. The Symptoms Shown in schizophrenia patients(FIG. 1) are Positive symptoms (hallusinations such as hearing voies and seeing things that not exist), negative symptoms (A loss to express emotions) ,and disorganised symptoms (Troubled with logical thinking and disorganised speech).Researchers believe that a number of genetic and environmental factors contribute to caution and life stressors may play a role in the start of symptoms.

Schizophrenia affects approximately 0.3% to 0.7% of people. It impacts people from all racial backgrounds and ethnicities and is slightly more common in men than in women. The exafct causes are unknown, but it has both genetic and environmental risk factors.

Treatments consists of medications (Antipsychoitic and Anti-Tremor) and Therapies rehabilitation).

Molecular interactions of human psychiatric risk-associated transcription factor-4 with enhancer box DNA sequence containing 5-carboxy cytosine

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EXPERIMENTALS

Schizophrenia disease Ihe was referred in PDB box (protein data box study certain structures on to Schizophrenia . As of the reference in the data box it is obtained with 187 protein structures of the diseases .As of further analysis the structures related to humans we opted filters Homospanies and experimented with X-ray diffraction method and used refinment resolution 1.0 - 1.5 A and referred latest uptdated paper related to the disease. By our analysis the structure for disease (FIG . 2) (PDB ID. 60D4). To test the quality of the structure we performed two tests

Test 1: R -FREE - R - WORK : FIGURE.2 : The 3 - dimensional Apportismately the value of the test structure of Human Transcription factor -4 should be >OR = 5% . our to DNA containing 5 - carboxy cytosine experimental result is 4.5% .

TEST 2: RESOLUTION / 10 : The value for this test is 0.022 (0.2%)

based on this two tests we have conformed the quality of the structure is good .

For further secondary structure analysis (alpha helices , beta helices and hydrogen bonding) we have been use PyMOL software..

e-poster presented online at the ABFR-2020.

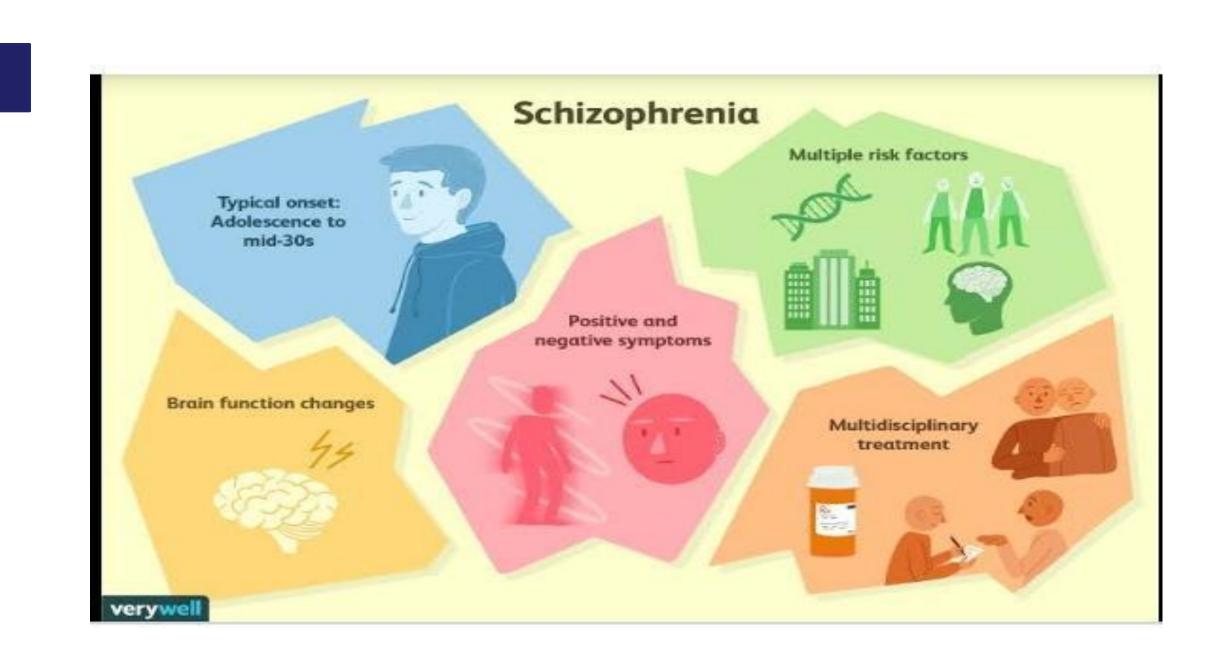
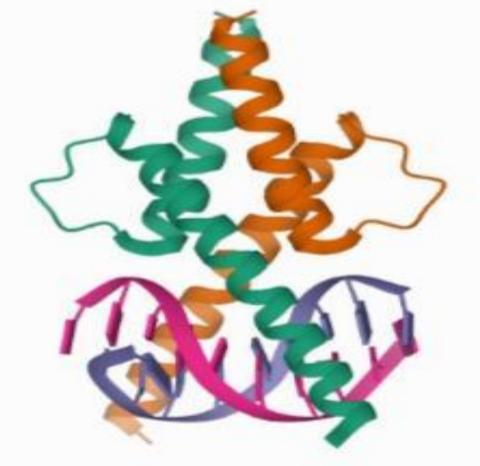


FIGURE.1 SYMPTOMS FOR PEOPLE EFFECTED WITH SCHIZOPHRENIA



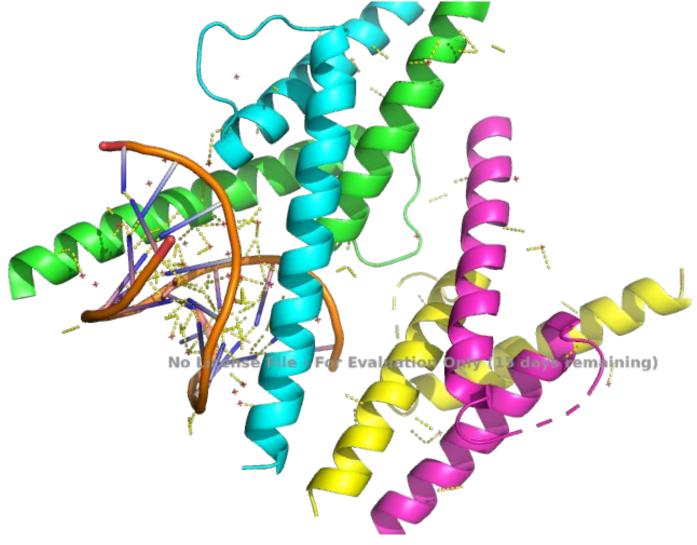


FIGURE.3: THE ATTACHMENT OF HYDROGEN BOND TO PROTEIN STRUCTURE **RESULTS & DISCUSSION**

structure of Human TCF-4 The :60D4) Contain 4 I,D PDB alpha helices and there are no beta helices in this protein structure and this structure also have a presence of DNA. There are totally 38 Hydrogen bonds FIGURE.3) and 41 water molecules are present in this structure .The macromolecule is Transcription factor -4, and the sequence length of this molecules is 62 and it has A,B,G,H chains , It also consist of small molecules (lignads) I.D : EDO . There are no mutation present in this protein structure

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