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Docking studies of antiviral drugs with thyroid TF2B

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Cancer can be described as the uncontrolled growth of abnormal cells. Thyroid cancer is a cancer originating from follicular or parafollicular thyroid cells. Some of the most commonly used thyroid cancer drugs are Cabozantinib-S-Malate, Vandetanib, and Nexavar etc. These drugs mainly work by blocking (inhibiting) signals within the cancer cells that make them grow and divide. The Protein- Ligand interaction plays a significant role in structural based drug designing. This study is an attempt to develop a drug with minimal side effects, the problem which previous studies have not been able to address. In our research work we have taken the TFIIB or TF2B [pdb id: 2PHG] protein and the commercially available drugs against Thyroid cancer. Using Bioinformatics tool Autodock, we have predicted and analysed the interaction of this protein with several ligands. In future this could leads to the application of existing sources of anti-viral drugs to treat this disease.

Biography

Roneet Choudhary is a student, who is pursuing his career in The Department of Bioinformatics (3rd year) in SRM University. He is from Mumbai (Maharashtra) and completed his schooling from Atmiya Vidya Mandir (Surat, Gujarat). He always allows himself to obtain a challenging position which gives him opportunity to apply his education and experience in the field of Bioinformatics and Computer Science. He is hard-working and career-oriented. He has been an icon of dedication and generosity for his fellow students. Furthermore, he has also been a part of many conferences such as International Cancer Conference (CANCERCON'14) and working on many projects related to his interest (Stats, Computer Programming).

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