

Global Congress on

Nucleic Acids: Biology, Health & Diseases

August 04-05, 2016 New Orleans, USA

Impact of SNPs on the action of antihypertensives

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Hypertension is a pathological condition diagnosed with persistent and chronic blood pressure elevations. Under normal conditions the values are less than 120/80 mmHg most of the time but in hypertension they elevate up to 140/90 mmHg or above sometimes. Recently WHO stated that about 18% of Pakistani population is affected by hypertension but unluckily in Pakistan it is not considered as such a problem by majority of the people. Even if it is diagnosed and treated, the treatment may or may not result in cure depending upon SNPs in the concerned genes and active sites of the targets. 8 protein molecules involved in hypertension were selected; their 3D structures from protein database as well as the 3D structures of the antihypertensives, commonly used against them, were obtained from ligand databases. Docking between the targets and our ligands using online docking server was done. The same procedure was carried out using active compounds, used in herbal medicines, as our ligands, in addition to finding the active compounds from various plant sources. Then SNPs in the genes of the selected targets were searched and comparative analysis was done to find the efficacy of the active compounds used in both allopathic and homeopathic medicines with respect to Pakistani population. According to the results obtained there were active compounds that were comparatively better to be used in case of certain SNPs. So, genetic data should be considered while treatment moreover, certain plants (parts) can directly be used as a cheaper source of cure.

Biography

Rabail Razi has completed her Bs (Hons) from University of the Punjab, Lahore. She has done her research work in Bioinformatics and has been working on Hypertension since more than one year. She has written chapters in a couple of books. She is pursuing her further studies (Master's) in Bioinformatics.

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