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Research article

## Molecular screening and analysis of Genistein analogues for the identification of novel therapeutic inhibitors against estrogen receptor alpha

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**Keywords:** Breast cancer, Estrogen receptor alpha, *In-Silico*, Docking-virtual screening, ADMET.

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### Abstract

Most common malignancy faced by women around the world today is breast cancer. Estrogen receptor alpha has been identified and play a major role in stimulating the growth of breast cancer. So in the present analysis, our focus has been on natural compounds which do not exhibit any toxicity and have significant estrogen receptor alpha inhibition activity. Several reports proposed that polyphenolic chemicals present in many plant foods, and hence these compounds have several chemo preventive properties against breast cancer. So by using molecular docking, we screened the selected natural compounds and investigated their binding affinity against the selected protein. As a result, we predict the novel therapeutic inhibitors against estrogen receptor alpha for the treatment of breast cancer.

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