

Review Form 2

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| Book Name:               | <a href="#">Recent Developments in Chemistry and Biochemistry Research</a>                                                                            |
| Manuscript Number:       | Ms_BPR_2969                                                                                                                                           |
| Title of the Manuscript: | TargetSNPdb: a database of preliminary analysis data of the impact of nsSNPs on drug targets, drug-metabolizing enzymes, and disease-associated genes |
| Type of the Article      | Book chapter                                                                                                                                          |

PART 1: Review Comments

| Compulsory REVISION comments                                                                                                                                                                                                          | Reviewer's comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Author's Feedback(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.                        | <p>_This is an important manuscript and an addition to the scientific community as it provide a specialized database for homo sapiens with different genomics sequences across various population and it goes with the current advancement in genomics medicine</p> <p>_It will help researchers in life sciences and physician-scientists, particularly those who are working in diagnosis and therapeutic fields, as it encourage them to be more precise in their practice.</p> <p>_ It is a great source to direct search for target SNPs in human genes and their association with diseases, which helps clinicians to find answers quickly and use the information in genetic counseling and drug prescription.</p>                        |                                                                                                                                                             |
| Is the title of the article suitable? (If not please suggest an alternative title)                                                                                                                                                    | <p>-Yes, it is suitable and it will be perfect ifs to add a word ( human ) at the end. Title will be</p> <p>TargetSNPdb: a database of preliminary analysis data of the impact of nsSNPs on drugtargets,drug-metabolizingenzymes, and disease-associated genes in human.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                             |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.                                                                           | <p>_ The abstract covers the most important points in the paper but needs some editing. The word motivation at the beginning of the abstract is better deleted, and instead, use the word (aims), Paraphrase the sentence and write a little information about the importance of the TargetSNPdb database in diagnosis and clinical settings. In addition, it would be perfect if authors wrote word methods before the software that has been used, and important to mention the homo sapiens type in the sentence. Lastly, the future suggestions to the database would better be written clearly as limitations that will be added to the TargetSNPdb later</p>                                                                               |                                                                                                                                                             |
| Are subsections and structure of the manuscript appropriate?                                                                                                                                                                          | <ul style="list-style-type: none"><li>- Yes , In general, it appropriate and numbering in subsection it is better to be modified . The heading METHODOLGY , must be written as MATERIAL AND METHODS. And add section of limitations at the end of the manuscript.</li><li>- Subsection 2.2.5 Protein Side Chain Modeling and Stability Analysis, should be after the subsection 2.2.2 Evaluating the impact of nsSNPs on protein function</li><li>- I suggest to reaarange Subsections as follows: 2.2.1 , 2.2.3, 2.2.2, 2.2.5 and lastly 2.2.4.</li></ul>                                                                                                                                                                                       |                                                                                                                                                             |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | <ul style="list-style-type: none"><li>- Information that has been mentioened are correct and utilization of bioinformatics software is exactly as should be.Authors use GROMACS software for stability, they have to write the score that determine enzyme or proeitrn stability., Also, more elaborarion is needed in the section 2.2.3.Association of nsSNP records with diseases or literature records; here authors not mentioned the range of the score or likleyhood of association between diseases and target nsSNPs in certain genes that been taken from the Genetic Association Database.</li><li>- Otherwise, this scientific paper is technically very useful and save time for researchers and healthcare professionals.</li></ul> |                                                                                                                                                             |

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| <b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b><br>: | <ul style="list-style-type: none"><li>- Most of the references are recent. As we are in the area of prescicion medicine, I suggest to add a few information about prescision drug therapy and the importance of identifyingtheir target nsSNPs in human diseases with reference, and prefer to be written in the result and discussion section. Moreover, I suggest to explain why they didn't incorporated the non coding SNPs in their propsed database?, now some of them has been revealed and linked with some chronic disease!.</li></ul> |  |
| <u>Minor</u> REVISION comments<br><br><b>Is the language/English quality of the article suitable for scholarly communications?</b>              | <ul style="list-style-type: none"><li>- Some sentences in Abstract, result and discussion need papaphasing.</li><li>- Very minor spelling mistakein the introduction must be corrected.</li></ul>                                                                                                                                                                                                                                                                                                                                               |  |
| <u>Optional/General</u> comments                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

PART 2:

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|                                                     | <b>Reviewer's comment</b>                                                    | <b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
| <b>Are there ethical issues in this manuscript?</b> | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |                                                                                                                                                                                             |

Reviewer Details:

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|----------------------------------|---------------------------------------------------|
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