

Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_88032
Title of the Manuscript:	MOLECULAR MECHANICS-BASED QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIP STUDY ON THE INHIBITORY ACTIVITY OF SCHIFF BASES AGAINST ESCHERICHIA COLI
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalajocs.com/index.php/AJOCS/editorial-policy>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
Compulsory REVISION comments		
Minor REVISION comments	<p>The present review entitled "MOLECULAR MECHANICS-BASED QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIP STUDY ON THE INHIBITORY ACTIVITY OF SCHIFF BASES AGAINST ESCHERICHIA COLI ", aims to build a statistically robust, predictive and rational Genetic function approximation (GFA) based QSAR model for inhibitory activity of Schiff bases against E. coli. by exploring the correlations between the experimental pMIC of the compounds and their calculated molecular descriptors. Thus, this work is relatively, good to be published in Asian Journal of Chemical Sciences, but I would ask the authors to consider the following points before publication. They have been highlighted in yellow color in the attached revised manuscript.</p> <p>1. Page 2: characterized by <u>trial-and-error</u> approach. → characterized by a trial-and-error approach.; time consuming → time-consuming; QSAR <u>offer</u> important structural insight <u>in</u> the design of novel anti-microbial drugs → QSAR offers important structural insight into the design of novel anti-microbial drugs; as well as <u>providing predictive model</u> → as well as a providing predictive model; and <u>then to quantify</u> them → and then quantify them; <u>The aim of this work is</u> to build a statistically → This work aims to build a statistically</p> <p>2. Page 10: Optimization was <u>done in order to find</u> → Optimization was done to find; geometry <u>of molecule</u>. → geometry of the molecule.; to calculate <u>their</u> physicochemical properties → to calculate its physicochemical properties</p> <p>3. Page 17: The closeness <u>of coefficient</u> → The closeness of the coefficient</p> <p>4. Page 18: predicted pMIC (Figure 1) <u>also shows</u> → predicted pMIC (Figure 1); shows; increases with increase → increases with an increase; electronegativites(WT.eneg), → electronegativities (WT.eneg).; electronegativites (WK.eneg)) → electronegativities (WK.eneg); increases <u>with decrease</u> in → increases with a decrease in; This <u>Model</u> → This model; the descriptors as shown in the model <u>implies</u> that → the descriptors as shown in the model imply that</p> <p>5. Page 19: The generated QSAR <u>models, was</u> performed → The generated QSAR models were performed; the QSAR models <u>has</u> been the QSAR models have been; Electronegativites → electronegativities; <u>since molecular</u> size → since the molecular size; its activity <u>and</u> but also a function → its activity but also a function</p> <p>6. Page 20: <u>predominantly use products</u> → <u>predominantly used products</u>; <u>it was funded by personal efforts</u> → <u>it was funded by the personal efforts</u></p> <p>With my best wishes</p>	Comment accepted and considered
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	