

Review Form 3

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_126631
Title of the Manuscript:	DFT Study of Coordination of N-Monochlorosubstitution Derivatives of Biguanide
Type of the Article	Original research article

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	This study uses DFT/B3LYP/6-31G (d, p) to investigate the coordination of N-chlorine biguanide derivatives, focusing on their nucleophilic imine nitrogen atoms as optimal binding sites. Bioactive Zn(II) complexes are modeled, potentially enhancing the therapeutic properties of biguanides. Computational tools like Gaussian, HyperChem, and DCENT-QSAR are utilized.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
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.	The abstract is good but grammar mistakes available.	
Are subsections and structure of the manuscript appropriate?	Yes	
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.	Manuscript confirms that imine nitrogen atoms are the most favorable coordination sites in N-chlorosubstituted biguanide derivatives, with Zn(II) forming stable chelate complexes. These complexes are more bioavailable and potentially more effective as drug candidates than the ligands alone.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	No, the Reference are too old revision required	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Good but grammar errors in the whole manuscript.	
Optional/General comments	Revision required 1. Grammer Error 2. Content not justified in the complete manuscript 3. Table font sizes are not equal	

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PART 2:

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

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