



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	MS: 2013_IRJPAC_5955
Title of the Manuscript:	Biological evolution and spectral studies of asymmetrical 3,5-disubstituted-1,2,4-oxadiazoles prepared by one-pot synthesis
Type of the Article	Research Paper

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.

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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)
<u>Compulsory</u> REVISION comments	1. The language of the paper is very poor and needs revision by some native English speaker (even the 1st sentence of abstract is incomplete). 2. The style for quoting references is not consistent, it should either precede or follow the punctuation (not mixed). 3. The nomenclature for compounds 5a-h is not correct, I can't see a pyrrolidine ring in the structure. 4. The compounds 3 & 4 are chiral and , therefore, the protons, at least at position 9, should be diastereotopic. This is not the case in the given data. 5. Line 99-105 should be a part of Results and Discussion. 6. Line 240: claims the appearance of nitrile absorption in IR at 1605 cm⁻¹, this is not the region for nitrile absorption. 7. Line 250 indicates OH absorption in IR at 2723 which is not possible. Similarly, NH₂ must give two signals & not one.	1. We have tried our level best to improve language of the paper. Abstract is also corrected. 2. Corrected. 3. Corrected. 4. The amino acid used was optically pure, but the compounds 3, 4, and 5a-h were not found optically pure even they are chiral. Thus the methylene protons at carbon number 9 were not detected separately in ¹H-NMR spectrum. We have not much focus on stereoscopic aspect. 5. Corrected. 6. Corrected. 7. Corrected.



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	8. Most seriously, I doubt the synthesis of target compounds (5a-h). The data in the experimental is not consistent with nmr spectrum in figure 3. The aromatic part must have at least two signals integrating to 2 protons each and 3 signals integrating to 1 proton each. for the aromatic and thio- rings. The spectrum shows only 3 protons in this region (instead of 7). The DEPT-135 has only three peaks above 100 ppm while the compound 5a should have 11 peaks in this region (sp² carbons). Therefore, this reviewer is of the point of view that the synthesis was unsuccessful.	8. A major mistake was done by my student, while inserting the ¹H-NMR and DEPT-135 figures. We have synthesised a series of analogous compounds containing aliphatic segments. By mistake the ¹H-NMR and DEPT-135 figures of aliphatic derivatives were supplied. Data was mentioned correctly in the manuscript for aromatic derivatives. Relevant figures are inserted in the revised manuscript. Sorry for the inconvenience.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		