ISSN: 2320-5407
International Journal of Advanced Research
www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-10316 Date: 12 May 2016

3D PERCEPTION OF MAXIMUM DENSITY ZONE ON RAMACHANDRAN PLOTS FOR ZIKA VIRUS PROTEIN STRUCTURES

Recommendation:
Accept as it is .....
Accept after minor revision (Yes)
Accept after major revision .....
Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		×		
Techn. Quality		×		
Clarity	×			
Significance		×		

Reviewer Name: Dr. Mohamed Ahmed El-Esawi **Date:** 12 May 2016

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

This manuscript discusses Zika virus including the proposed method and implementation. Using the high-fidelity dataset of Zika Virus here, the 3D-plot allows several interesting observations. Most obvious, is the titanic and sharp peak resulting from residues in α-helices. This very sharp peak towers over every other portion of the Ramachandran plot, including the other portions of the classically defined alpha-region. This salient observation suggests that the classically defined alpha-region does not behave as a unit. Moreover it is possible to visualize the maximum density zone in the 3D plot marked with #1 rather than large set of scatter point cluster in the 2D graph. The colour codes being graded gives us a clear picture of how the data in protein data bank files are packed over a narrow region. This work represents a good collection to know more significant information about Zika virus.