SDI Review Form 1.6

Journal Name:	**International Journal of Biochemistry Research & Review**
Manuscript Number:	**Ms_IJBCRR_22157**
Title of the Manuscript:	**Characterization and structural studies of a small chito-specific lectin from *Datura innoxia* seeds possessing anti-microbial properties**
Type of the 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:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

SDI Review Form 1.6

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	**Proposed Article is a complex study that operates a wide range of methods, it is also very well written and could be recommended for the publication with high priority. Below are some minor comments or advices that I believe could improve the article.** **The main problem is rather weak quality of all figures, especially Figs 3 and 6. I hope authors could send better versions for the publication.** **Somehow the stage of Q-sepharose is missing. Maybe it is reasonable to add the information of ion strength (NaCl molarity) of the buffer that eluted lectins?** **Purification parameters shown in the Table 1 are interesting. But I think it would be useful to explain the calculated purification fold. Normally after two steps of purification one can expect greater purification fold,.I understand that specific activity that you calculated in the crude extract is the sum of activities of different lectins. In the same time you may calculate purification fold as the ratio of total protein in the extract and purified protein after gel-filtration.** **I think that you have to underline in conclusions that the molecular weight was found by MALDI as far as it is accurate molecular weight of studied protein.**	Figures are improved Line 69-70, same buffer as already mentioned, no NaCL and stated that lectin eluted in unbound fraction. Buffer information is now repeatedly included. Table 1 is modified to incorporate this information The MALDI information is included

SDI Review Form 1.6

Minor REVISION comments	In Abstract: The rabbit erythrocytes were used for 1. hemagglutinating activity - The rabbit erythrocytes were used for the study of hemagglutinating activity 2. The lectin studied – the studied lectin 22. Its cultivation in southeastern Europe is mainly for the production – it is cultivated in southeastern Europe mainly for the production 23. one among the most – one of the most Please re-read the article in aim to exclude language mistakes. **I am not sure that you have to use CAPITAL LETTERS in the list of references. Please check the Author's guide.**	All corrections are incorporated Reference format corrected
Optional/General comments		