



SDI Review Form 1.6

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| Journal Name:            | <a href="#">International Journal of Biochemistry Research &amp; Review</a>    |
| Manuscript Number:       | Ms_IJBCRR_39263                                                                |
| Title of the Manuscript: | GENE EXPRESSIONS AND POLYMORPHISMS OF NOVEL BIOMARKERS IN DIABETIC NEPHROPATHY |
| 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:

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



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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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Compulsory</b> REVISION comments | <ol style="list-style-type: none"> <li>1. Very bad English. Numerous grammar, stylistic and spelling errors make the text difficult to understand. Careful and profound revision made by a native English speaker is absolutely required . The text should be completely re-written.</li> <li>2. The way of presenting Results is inadequate and not comprehensive. The authors claim that there are present or absent some statistical differences but it can hardly be understood because statistical comparisons and levels are not shown. The authors discuss the changes in CD36 or LDLr levels but they are not shown in the Results.</li> <li>3. In the introduction the authors have not explained why they decided to test just IL-10, CD36 and LDL receptor? What was their motivation?</li> <li>4. The title suggests that patients diagnosed for DN should be included in study groups. However the authors mention only patients with diabetes.</li> <li>5. There is no table showing 3 study groups categorized by duration of diabetes, the level of HbA1c and microalbuminuria. The only categorization shown is age 30-45 and 46-70</li> <li>6. What was measured by RT-PCR? No results of RT-PCR have been shown.</li> <li>7. As a matter of fact, the authors have completely omitted description of methodology used in their experiments.</li> <li>8. It is not clear, have they used Real Time PCR or Reverse transcription PCR. Conditions of RT-PCR and starter sequences are lacking.</li> <li>9. How was the blood collected and how were the blood samples prepared for analysis? What was analysed for CD36 and LDLr? Leukocytes? tissues? What kind of RT-PCR was performed, Real Time or Reverse Transcription? What kind of equipment has been used? Which statistical methods have been used?</li> <li>10. Fig 1 Too small , impossible to read. What is 9b?</li> <li>11. It is evident that the figures 1a and 1b have been copy-pasted from some other sources, while the authors did not mention the original sources. Fig 1b is published in Wikimedia. Additionally, these are general schemes of commonly known methods. Instead, the authors should provide their own description of procedures they have applied.</li> <li>12. Table 3; it seems there were statistical differences between Control and study groups. Why are they not shown?</li> <li>13. What is CT? Computed Tomography? Abbreviations such as CHD, CT or LDLr should be explained.</li> <li>14. What does table 4 show? What kind of values ? The authors claim that the results in the table indicate that there is statistical significance for tested parameters. However, it is completely unclear. What was the level of statistical significance?</li> <li>15. The values of lipid levels in the study groups should be shown</li> <li>16. In the Discussion the authors write "Polymorphism study of IL-10, CD36 and</li> </ol> | <ol style="list-style-type: none"> <li>1. Corrected</li> <li>2. Gene polymorphism is shown in figures (2,3 7 4)</li> <li>3. Motive of taking these genes is there any notable change in studied population or not?</li> <li>4. There is relationship of IL-10, CD36 and LDL receptor in T2DM associated nephropathy.</li> <li>5. Duration of diabetic is inclusion criteria, not grouped on this parameter.</li> <li>6. CT in table 4</li> <li>7. Fig1. RNA Isolation (a) and Gene polymorphism by Sanger sequence (b) method. These two methods have universal identity and detailed explanation of procedure will unnecessary increase in length of manuscript</li> <li>8. Real Time PCR</li> <li>9. Blood collected in EDTA, buffy coat is separated and used for expressions and polymorphism. rt-PCR Thermofisher instrument used. R- Software is used for statistical analysis.</li> <li>10. It is b not 9b, typographical error. Converted in landscape.</li> <li>11. These figures access is freely available online.</li> <li>12. Shown in table 4</li> <li>13. CT; Threshold cycle</li> <li>14. Table 3 and Table 4 related to each other.</li> <li>15. Lipids level shown in tables</li> <li>16. Controlled diabetic population with 3-5 years duration. Long duration subjects not involved.</li> </ol> <p>Study protocol is approved by Institutional Ethics Committee.</p> |



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|                                  | <p>LDLr showed that IL-10 ...” In which groups ( age, or DM-duration or high glycated haemoglobin ) were mutations observed and how were they compared (to the control? Short DM duration vs long-time DM duration? young group vs 46-70 group?). What are the statistical results? Nothing has been shown in the results.</p> <p><b>Ethical issues</b></p> <p>The study was performed on patients but the Authors have not provided the number of ethical approval and nothing is mentioned about patient consent</p>                                                                                                                                                                                                                                                                                                                                           |                                                 |
| <b>Minor</b> REVISION comments   | <ol style="list-style-type: none"> <li>1. Within the text the authors frequently use &amp; instead of “and”. This should be changed</li> <li>2. In the Abstract, the age range of tested patients is inconsistent with that in the text (30-45 in the abstract, up to 70 in the text)</li> <li>3. In the Introduction the authors write : Diabetes is a disease that causes blood glucose (sugar) levels to rise higher than normal. The situation is reverse: high blood glucose leads to diabetes which is a group of metabolic disorders</li> </ol>                                                                                                                                                                                                                                                                                                           | Modified                                        |
| <b>Optional/General</b> comments | <p>In attempt to find early markers for developing DN, the Authors have checked mutations of some genes in diabetic patients with microalbuminuria. However, eGFR and serum creatinine was still normal which indicates that kidney injury was in early stage. This could be a nice preliminary study presented as e.g. a short communication. Unfortunately, the Authors have not provided basic data including methods and properly presented results, Additionally, they seem not having taken an effort to check spelling and typing errors before submitting the article. On the other hand, big part of the text is very difficult to understand due to a very bad English.</p> <p>In my opinion, if the Authors have completely re-written the paper (help of somebody experienced in publishing papers is recommended), it could be considered again</p> | Methods are universal, presented in flowcharts. |