

Peer Review File

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Reviewer 1

Comment 1: The part of asthma description can be improved in Methods section as it is not clear that this will be further addressed in Result section. Patient description with diagnostic criteria is critical for interpretation of the proteomic data.

Reply 1: In the methods section of the manuscript, we added the diagnostic criteria for asthma, and in the Results section, we correlated clinical data with biomarkers in an attempt to establish a link between phenotypes and protein molecules.

Changes in the text: Line 94-95; Line 238-241. Highlighted part.

Comment 2: Second, minor query is for performed DDA mass spectrometry to generate spectral library; having these data and data for DIA is it possible to evaluate superiority of the latter approach?

Reply 2: In the Discussion section, we added a comparison of results from several previous asthma blood proteomics studies, mainly in terms of the number of proteins identified. This study is currently the only one using DIA strategy, and the number of proteins identified is much more than other DDA studies. It further reflects the advantages of DIA strategy compared with DDA strategy. In addition, there are many professional reviews on the comparison of DIA and DDA strategies. Therefore, this paper only makes a brief description of the comparison between the two in the introduction.

Changes in the text: Line 286-293. Highlighted part.

Reviewer 2

Comment 1: The results are acceptable and the further discussion is necessary.

Reply 1: In the discussion section we have added a discussion of IGFALS proteins and the comparison between this study and other similar studies.

Changes in the text: Line 286-293; line 342-355. Highlighted part.

Comment 2: However the conclusion of the abstract is not clear. It is not really associated with the current results. They should more clearly write the conclusion.

Reply 2: We have revised the conclusion and the conclusion section in the abstract.

Changes in the text: Line 25-25; line 31-35; line 364-373. Highlighted part.