PEER-REVIEW REPORT

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Title: Hypotheses and facts for genetic factors related to severe COVID-19

Reviewer's code: 05848640

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Bulgaria

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-03 02:44

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Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [ ] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Congratulations on the completeness of the review: all the major genetic studies carried out have been treated and summarized in a very complete and exhaustive way. Describing HLA genes system you could have explained the connection about autoimmune diseases and susceptibility to infectious disease, and the predisposition to autoimmune disease in the same loci identified by GWA that you describe in HLA paragraph (multiple sclerosis or diabetes e.g.). This is very interesting also for the protection that steroids ant interferons or other immunomodulatory therapies should give to autoimmune diseases patients or high evolution risk patients in the initial phase of SARS-COV-2 infection.