

CORRECTION

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# Correction: The dynamic changes and sex differences of 147 immune-related proteins during acute COVID-19 in 580 individuals

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In the original publication of the article [1], the author name Noam D. Beckmann was incorrectly written as Noam Beckmann. The original article has been corrected.

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## Reference

1. Butler-Laporte G, Gonzalez-Kozlova E, Su C-Y, Zhou S, Nakanishi T, Brunet-Ratnasingham E, Morrison D, Laurent L, Aflalo J, Aflalo M, Henry D, Chen Y, Carrasco-Zanini J, Farjoun Y, Pietzner M, Kimchi N, Afrasiabi Z, Rezk N, Bouab M, Petitjean L, Guzman C, Xue X, Tselios C, Vulesevic B, Adeleye O, Abdullah T, Almamlouk N, Moussa Y, Deluca C, Duggan N, Schurr E, Brassard N, Durand M, Del Valle DM, Thompson R, Cedillo MA, Schadt E, Nie K, Simons NW, Mouskas K, Zaki N, Patel M, Xie H, Harris J, Marvin R, Cheng E, Tuballes K, Argueta K, Scott I, The Mount Sinai COVID-19 Biobank Team, Greenwood CMT, Paterson C, Hinterberg M, Langenberg C, Forgetta V, Mooser V, Marron T, Beckmann ND, Kenigsberg E, Charney AW, Kim-schulze S, Merad M, Kaufmann DE, Gnjatic S, Richards JB. The dynamic changes and sex differences of 147 immune-related proteins during acute COVID-19 in 580 individuals. *Clin Proteom*. 2022;19:34. <https://doi.org/10.1186/s12014-022-09371-z>.

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