

Author Correction: New genetic signals for lung function highlight pathways and chronic obstructive pulmonary disease associations across multiple ancestries

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Nick Shrine , Anna L. Guyatt , A. Mesut Erzurumluoglu, Victoria E. Jackson, Brian D. Hobbs , Carl A. Melbourne, Chiara Batini, Katherine A. Fawcett, Kijoung Song, Phuwanat Sakornsakolpat , Xingnan Li, Ruth Boxall, Nicola F. Reeve, Ma'en Obeidat , Jing Hua Zhao, Matthias Wielscher, Understanding Society Scientific Group*, Stefan Weiss , Katherine A. Kentistou , James P. Cook, Benjamin B. Sun , Jian Zhou, Jennie Hui, Stefan Karrasch, Medea Imboden, Sarah E. Harris, Jonathan Marten, Stefan Enroth , Shona M. Kerr, Ida Surakka, Veronique Vitart , Terho Lehtimäki, Richard J. Allen , Per S. Bakke, Terri H. Beaty , Eugene R. Bleeker, Yohan Bossé , Corry-Anke Brandsma, Zhengming Chen, James D. Crapo, John Danesh, Dawn L. DeMeo, Frank Dudbridge, Ralf Ewert, Christian Gieger, Amund Gulsvik, Anna L. Hansell, Ke Hao, Joshua D. Hoffman, John E. Hokanson, Georg Homuth, Peter K. Joshi , Philippe Joubert, Claudia Langenberg, Xuan Li, Liming Li, Kuang Lin, Lars Lind, Nicholas Locantore, Jian'an Luan, Anubha Mahajan , Joseph C. Maranville, Alison Murray , David C. Nickle, Richard Packer, Margaret M. Parker, Megan L. Paynton, David J. Porteous , Dmitry Prokopenko, Dandi Qiao, Rajesh Rawal, Heiko Runz, Ian Sayers , Don D. Sin, Blair H. Smith , Maria Soler Artigas, David Sparrow, Ruth Tal-Singer , Paul R. H. J. Timmers , Maarten Van den Berge, John C. Whittaker, Prescott G. Woodruff, Laura M. Yerges-Armstrong, Olga G. Troyanskaya , Olli T. Raitakari, Mika Kähönen, Ozren Polašek, Ulf Gyllensten, Igor Rudan , Ian J. Deary, Nicole M. Probst-Hensch, Holger Schulz, Alan L. James, James F. Wilson , Beate Stubbe, Eleftheria Zeggini , Marjo-Riitta Jarvelin, Nick Wareham, Edwin K. Silverman, Caroline Hayward , Andrew P. Morris , Adam S. Butterworth , Robert A. Scott, Robin G. Walters , Deborah A. Meyers, Michael H. Cho , David P. Strachan , Ian P. Hall, Martin D. Tobin  & Louise V. Wain 

In the version of the article initially published, unconsented individuals were erroneously included in SPIROMICS consortium results. The analysis has now been repeated with the unconsented individuals removed. The change in the results does not affect the conclusions in the paper.

The corrections required to the paper are as follows:

1. In the third paragraph of the “Association with FEV₁/FVC and COPD in multiple ancestries” section: “($n = 6,979$ cases and $3,915$ controls)”, should be “($n = 6,964$ cases and $3,904$ controls)” and “ $P = 2.87 \times 10^{-75}$ ” should be “ $P = 2.21 \times 10^{-75}$ ”.
2. In the fourth paragraph of the “Association with FEV₁/FVC and COPD in multiple ancestries” section: “ 4.73 (95% CI: $[3.79, 5.90]$), $P = 3.00 \times 10^{-43}$ ”, should be “ 4.71 (95% CI: $[3.77, 5.87]$), $P = 7.24 \times 10^{-43}$ ”.
3. In the Fig. 3b table, the SPIROMICS row: “ $1.54, 1.38, 1.72, 4.47 \times 10^{-14}, 988, 537$ ”, should be “ $1.55, 1.39, 1.74, 6.80 \times 10^{-14}, 973, 526$ ”; and the Meta-analysis row: “ $1.55, 1.48, 1.62, 1.48 \times 10^{-75}, 6,979, 3,915$ ”, should be “ $1.55, 1.48, 1.62, 2.21 \times 10^{-75}, 6,964, 3,904$ ”.
4. In the final paragraph of the Discussion: “The 279-variant GRS we constructed was associated with a 4.73-fold increased relative risk...”, should be “The 279-variant GRS we constructed was associated with a 4.71-fold increased relative risk...”.

5. In the fifth paragraph of the “Effect of genetic risk score on COPD susceptibility in multiple ancestries” section in the Methods: “SPIROMICS (988 cases, 537 controls)”, should be “SPIROMICS (973 cases, 526 controls)”.

The correction is due to 26 unconsented SPIROMICS samples being originally included in the analysis. The analyses that previously included these samples have been rerun with data from these 26 samples removed.

Supplementary Information accompanies the online version of this amendment and includes:

1. Updated Supplementary Text and Figures wherein we have changed:
 - On page 23 (description of SPIROMICS cohort) the number of COPD cases has been changed from 988 to 973 and controls from 537 to 526.
 - Supplementary Figure 9 – the forest plots have been updated for the new results for association with 279 variants after reanalysis of SPIROMICS.
 - Supplementary Table 20 – the demographics for SPIROMICS have been updated.
 - Supplementary Table 21 – the results rows for the SPIROMICS and “Meta-analysis of 5 European-ancestry study groups” have been updated.
 - Supplementary Table 22 – The “Meta-analysis of 5 European cohorts” columns have been updated after SPIROMICS reanalysis.
2. Updated Supplementary Tables wherein we have changed:
 - Supplementary Table 29 – columns X–Z (“Meta-analysis of 5 external European-ancestry COPD cohorts (Cases = 6,964; Controls = 3,904)”) after reanalysis of SPIROMICS data.

*A list of members and their affiliations appears in the Supplementary Information.

Additional information

Extended data is available for this paper at <https://doi.org/10.1038/s41588-024-01752-4>.

Supplementary information The online version contains supplementary material available at <https://doi.org/10.1038/s41588-024-01752-4>.

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