Deciphering osteoarthritis genetics across 826,690 individuals from 9 populations

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In this article, we carried out a multi-cohort GWAS meta-analysis for 11 osteoarthritis phenotypes. Since publication, we have become aware of the following typographical errors that were introduced during preparation of the manuscript and resulted from multiple authors editing a single shared document.

In Table 1, there were two typographical errors: for spine osteoarthritis, the correct number of cases and controls is 28,372/305,578 (originally written as 28,372/305,578).

In Table 2, there were 11 typographical errors: HipOA rs781661531 EAF is 0.9997 (not 7 \times 10^{-3}/C0), HandOA rs10062749 p is 2.04 \times 10^{-3} (not 2.04 \times 10^{-10}, TJR rs116994101 OR is 1.06 (not 1.106), TJR rs10824456 OR is 0.95 (not 10.95), KneeOA rs1426371 OR is 0.95 (not 10.95), KneeHipOA rs551471509 EAF is 0.9996 (not 6 \times 10^{-3}/C0), KneeOA rs11705555 p is 2.99 \times 10^{-3} (not 3.00 \times 10^{-5}), KneeHipOA rs2856821 OR is 1.05 (not 1.1), female-specific AllOA rs10453201 95%CI is 1.03–1.06 (not 1.02–1.06), the nearest gene to female-specific THR rs116112221 is FANCL (not FALCL1), and the nearest gene to female-specific THR rs10282983 is C8orf34 (not C3ORF34).

In Table S2, there were two typographical errors: cell 42E is 0.3 (not 0.72) and cell 42F is 1.06 (not 1.08).

In the discussion, fibrillin 2 was inadvertently labelled as FNB2 in two places, instead of FBN2.

Finally, we inadvertently used an incorrect version of Figure 1, in which the information on the list of SNVs in (C) was incomplete and 12 typographical errors were introduced during the submission process. Specifically, in Figure 1A, the number of cases and controls of (1) Knee and/or Hip OA is 89,741 cases/ 400,604 controls (not 90,865 cases/ 402,824 controls), (2) Hand OA is 20,901 cases/ 282,881 controls (not 21,186 cases/ 285,101 controls), (3) Spine OA is 28,372 / 305,578 (not 28,731/307,798), (4) Hip OA is 36,445 cases/ 316,943 controls (not 36,520 cases/ 317,590 controls), and (5) Knee OA is 62,497 cases/ 333,557 controls (not 63,498 cases/ 335,777 controls). In Figure 1C, we have updated the SNVs listed in the panels, and the following sequences are now included: rs13107325, rs85417509 in the Hip Osteoarthritis (and/or THR) section; rs11164653 in the Knee and/or Hip Osteoarthritis (and/or TJR) section; rs10062749, rs11071366, rs1530586, rs216175, rs58973023, and rs74676797 in the Knee Osteoarthritis (and/or TKR) section; rs11164653, rs1530586, rs17615906, and rs9908159 in the All OA section; and rs10062749 in the Hand and Knee Osteoarthritis or TKR section. Also, rs3771501 has been removed from the Hand and Knee Osteoarthritis or TKR section.

These errors have now been corrected in the online version of the paper. The authors apologize for any inconvenience they may have caused the readers.
### Table

| Phenotype                          | Cases       | Controls      |
|-----------------------------------|-------------|---------------|
| Knee and/or Hip OA                | 89,741      | 400,604       |
| Hand OA                          | 20,901      | 282,881       |
| Finger OA                        | 10,804      | 255,814       |
| Thumb OA                         | 10,536      | 236,919       |
| Spine OA                         | 28,372      | 305,578       |
| Early All OA                     | 6,838       | 41,449        |
| Total Joint Replacement           | 36,445      | 316,943       |

### Figure 1. Genetic architecture (corrected)

#### Meta-Analysis for each phenotype separately (1:11)

Genome-wide significance: Presence of 1x152 same direction of effect and occurrence in ≥2 cohorts.

#### Any Site (All) Osteoarthritis (OA)

| rs10062749 | rs10405617 | rs10842226 | rs10974438 | rs11071366 | rs11705555 | rs12914479 | rs1330349 | rs1426371 | rs143384 | rs1517572 | rs1530586 | rs2066928 | rs216175 | rs2605100 | rs2716212 | rs2856821 | rs28929474 | rs34195470 | rs4380013 | rs551471509 | rs571734653 | rs6500609 | rs72760655 | rs72979233 | rs74676797 | rs75621460 | rs76340814 | rs7787744 | rs7953280 | rs79895530 | rs9475400 | rs9908159 | rs9940278 | rs9981408 | rs9981884 | rs227732 |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
Figure 1. Genetic architecture (original)