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Supplemental information

**eXclusionarY: 10 years later, where
are the sex chromosomes in GWASs?**

Lei Sun, Zhong Wang, Tianyuan Lu, Teri A. Manolio, and Andrew D. Paterson

Figure S1. Total number of studies reporting at least one genome-wide significant finding (p-value < 5 x 10⁻⁸) over time, stratified by chromosome and year, from the NHGRI-EBI GWAS Catalog. Genetic associations were indexed by unique PubMed IDs. Studies reporting associations with multiple traits were only counted once.

Figure S2. Average number of studies per Mb reporting at least one genome-wide significant finding (p-value < 5 x 10⁻⁸) over time, stratified by chromosome and year, from the NHGRI-EBI GWAS Catalog. Genetic associations were indexed by unique PubMed IDs. Studies reporting associations with multiple traits were only counted once.

Supplemental Data S1. List of GWAS summary statistics available in the NHGRI-EBI GWAS catalog from publications in 2021 examined to determine whether they contain results for X and Y chromosomes. The columns contain the following information:

Column A; PubMed ID

Column B: Ftp Link to NHGRI-EBI GWAS catalog summary statistics for one trait selected from each PubMed ID for examination of summary statistics.

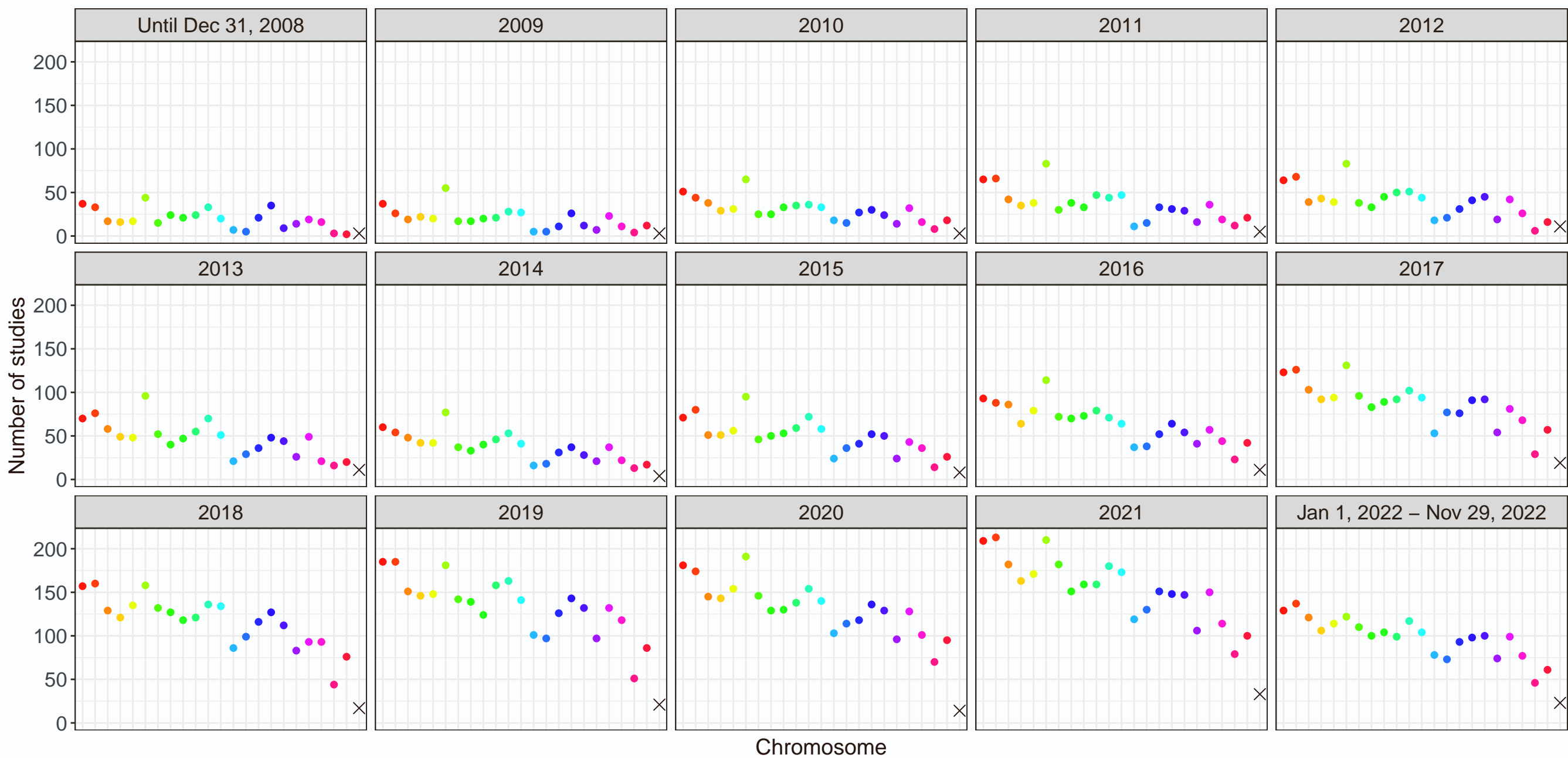
Column C: Number of GWAS summary statistics present within each PubMed ID.

Column D: Indicator whether results were present for X chromosome SNPs: 0=No, 1=Yes

Column E: Indicator whether results were present for Y chromosome SNPs: 0=No, 1=Yes

Supplemental Data S2. Reporting standards for entries in the NHGRI-EBI GWAS catalog downloaded on 2020-03-08 where the study had reported one or more X chromosome loci (p<5

x 10-8). Detailed information about the column descriptions are provided in the Header Description tab.



- chr1 (248 Mb) • chr2 (243 Mb) • chr3 (201 Mb) • chr4 (194 Mb) • chr5 (182 Mb) • chr6 (172 Mb) • chr7 (161 Mb) • chr8 (146 Mb)
- chr9 (151 Mb) • chr10 (135 Mb) • chr11 (135 Mb) • chr12 (133 Mb) • chr13 (114 Mb) • chr14 (101 Mb) • chr15 (100 Mb) • chr16 (96 Mb)
- chr17 (84 Mb) • chr18 (81 Mb) • chr19 (62 Mb) • chr20 (66 Mb) • chr21 (45 Mb) • chr22 (51 Mb) • chrX (154 Mb)

