**Data availability for the thesis titled “Burden and control of chronic obstructive pulmonary disease”**

In this thesis, multiple data sources from the third-party were used, including

* The summary statistics for genetic associations of IL-1α, IL-1R1, IL-1Racp, IL18BP, IL18Rα, IL-36α, IL-36β, IL-36γ, IL-37 are available in the INTERVAL study (<http://www.phpc.cam.ac.uk/ceu/proteins/>).
* The summary statistics for genetic associations of IL-1β, IL-1Ra, IL-18 are available in YFS and FINRISK survey (<https://grasp.nhlbi.nih.gov/FullResults.aspx>).
* The summary genetic statistics for genetic associations of chronic obstructive pulmonary disease are available in the Genetic Epidemiology of COPD (<https://www.ncbi.nlm.nih.gov/projects/gap/cgi-bin/study.cgi?study_id=phs000179.v6.p2>).
* The summary genetic statistics for transferrin, transferrin saturation, iron status, stroke (including ischemic and cardioembolic stroke) are available in the MR-base (<https://www.mrbase.org/>).
* The annotated QTLs are available in RegulomeDB (<https://regulomedb.org/regulome-search/>) and PhenoScanner (<http://www.phenoscanner.medschl.cam.ac.uk/>). The 1000 genomes European reference panel is available via LDlink (<https://ldlink.nci.nih.gov/?tab=home>).

Furthermore, the data for the Hong Kong’s Elder Health Service Cohort are not publicly available currently. But the relevant descriptions the data are available from <https://www.dh.gov.hk/english/main/main_ehs/main_ehs.html>.

Lastly, the data on the Global Burden of Disease 2017 are published by the Institute for Health Metrics and Evaluation (IMHE) and available at <http://ghdx.healthdata.org/gbd-2017>. A readme document, which contains details on the data data cleaning procedure, methodology, and analysis methods, is publicly accessible online <https://www.healthdata.org/>.