

## **The Animal QTLdb and CorrDB – 2022 updates**

Zhi-Liang Hu, Carissa A. Park, and James M. Reecy

Department of Animal Science, Iowa State University, 2255 Kildee Hall, 806 Stange Road, Ames, IA 50011

The development of Animal QTLdb (<https://www.animalgenome.org/QTLdb>) and CorrDB (<https://www.animalgenome.org/CorrDB>) has continued over the past 10+ years with 3 database releases per year, and steady database growth with newly curated data and new database tools. The database growth has expanded well beyond the curation of new genomic data, with efforts to improve the curation process and provide users with new ways to visualize and explore data. New progress includes curation and management of animal trait hierarchies, genome mapping updates and management, and development of curation tools. With newly added tools, the databases are now capable of supporting the following: multiple genome assemblies within a species for QTL/association mappings, mapping and hierarchy display of multiple ontologies for trait terms, and additional data uploads and collaborative data curation. To date, the QTLdb hosts QTL/association data for 7 species (19 genome assemblies), containing 220,401 curated data on 2,210 animal traits (linked to 3 ontologies and a QTL trait hierarchy) from 2,496 publications. The CorrDB contains 23,552 correlation data and 4,273 heritability data on 1,069 animal traits from 408 publications. The database site receives about 100,000 hits from about 8,000 visitors annually.

(NO POSTER; The on-site conference was cancelled due to COVID19 pandemics)