|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  | **DGRPool** | **DGRP2** |
| **REFERENCE** | | | This study | (Mackay et al., 2012)  (Huang, Massouras, et al., 2014) |
| **DATA** | *DGRP lines* | | 342 | 205 |
| *DGRP studies* | | 135 (43 fully curated) | 12 |
| *Phenotypes* | | 1034 (840 unique) | 31 |
| *Gene Expression data* | | External links |  |
| **TOOLS** | **GWAS** | *Calculated on all phenotypes* |  |  |
| *User upload* |  |  |
| *Method* | Plink2 | FastLMM |
| *Covariates* | *Wolbachia* + 5 Insertions | *Wolbachia* + 5 Insertions |
| *Boxplot of REF vs ALT* |  |  |
| ***PheWAS*** *of top variants* |  |  |
| ***Phenotype correlation*** | *Calculated on all phenotypes* |  |  |
| *User upload* |  |  |
| WEB | *URL* | | https://dgrpool.epfl.ch/ | http://dgrp2.gnets.ncsu.edu/ |
| *Backend* | | Ruby-on-rails + PostgreSQL | NA |
| *Frontend* | | Javascript, Plotly | NA |
| **FEAT.** | Curation system & tools | |  |  |
| Publish new studies | |  |  |
| Interactive plots | |  |  |

**Table 1**. **Overview of state-of-the-art web portals organizing DGRP phenotyping data.** This table compares different features available in DGRPool, with DGRP2, the current main resource for DGRP data. It separates the features into 1) **Data**, which summarizes the available phenotyping data, 2) **Tools**, which list the available tools and options, mainly GWAS, PheWAS and phenotype correlation, 3) **Web**, which describe the website itself, and 4) **Additional features**, that are available in DGRPool, such as the curation system, the possibility to publish new studies and the interactive plots. Of note, the “unique phenotypes” term describes the number of phenotypes regardless of the sex, while the total number counts the same phenotype separately for different sexes.