

TACACAATCAGTTAGTTTCCACCGACAGTCCGCAGAAACCATTCGACGGC  
 GTCGGCAATCCGTAAGATAGCCAAATATTATTATTGTCAGATACTCACT  
 AGCAGCAAACTGCAGATCCGCTGAGTGTTCCTCAAAATCAGTCAAATTC  
 TAAACTTCAATCCAACTCAATCCAACTCAATCCAACTCAATCCAACT  
 ATTCGCGGCAAAAGCGGACTTTTTCGGATGAAATGAAATAAAAAA  
 AATAATAAAAAACAACACAGTGCACACAGCCGGGCATCTTCATAGAT  
 AACTTCTGCCTBCACTTGGTATATGTAATATATACATAGACATATATATA

# FlyBase

## FlyBase Representative Publications: Using annotation data to identify key papers on a gene

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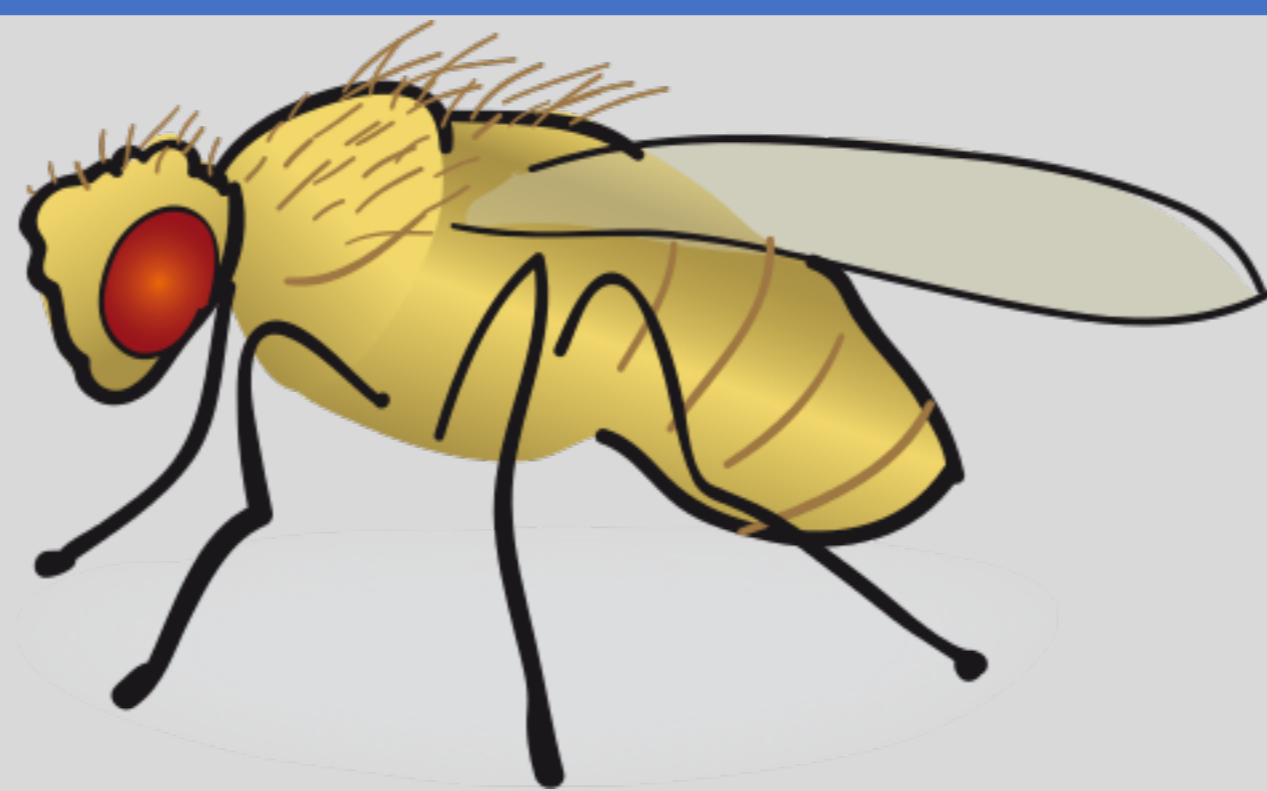
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### Issue

Gene-to-publication associations are made within FlyBase regardless of the amount of data on a gene deriving from a given publication, resulting in comprehensive reference lists on each gene report page. However, it can be difficult for users to quickly identify the key publications that really characterize or focus on a gene in depth.

~14,000 Protein coding genes

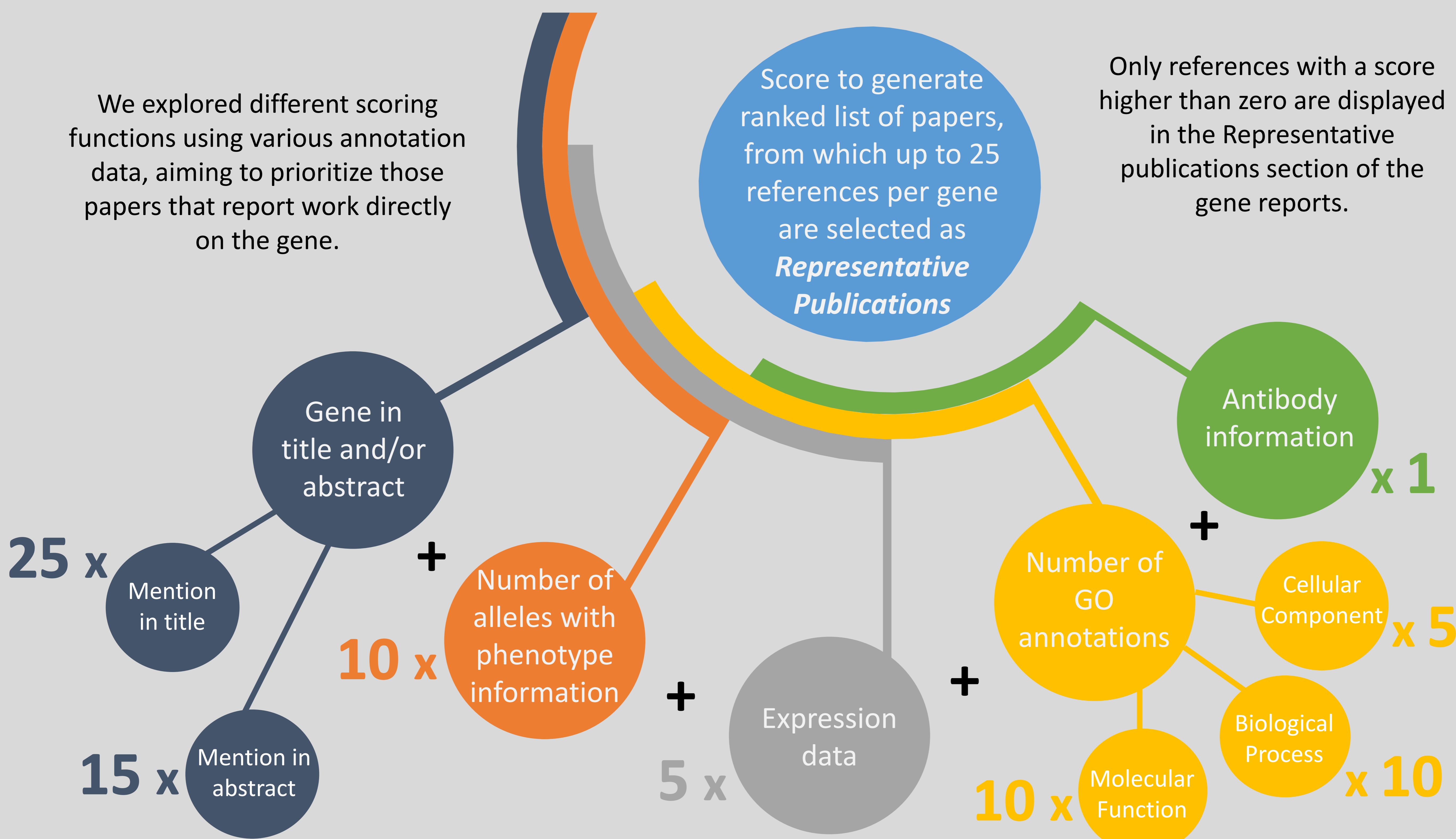


~2,500 new research papers on *Drosophila melanogaster* per year

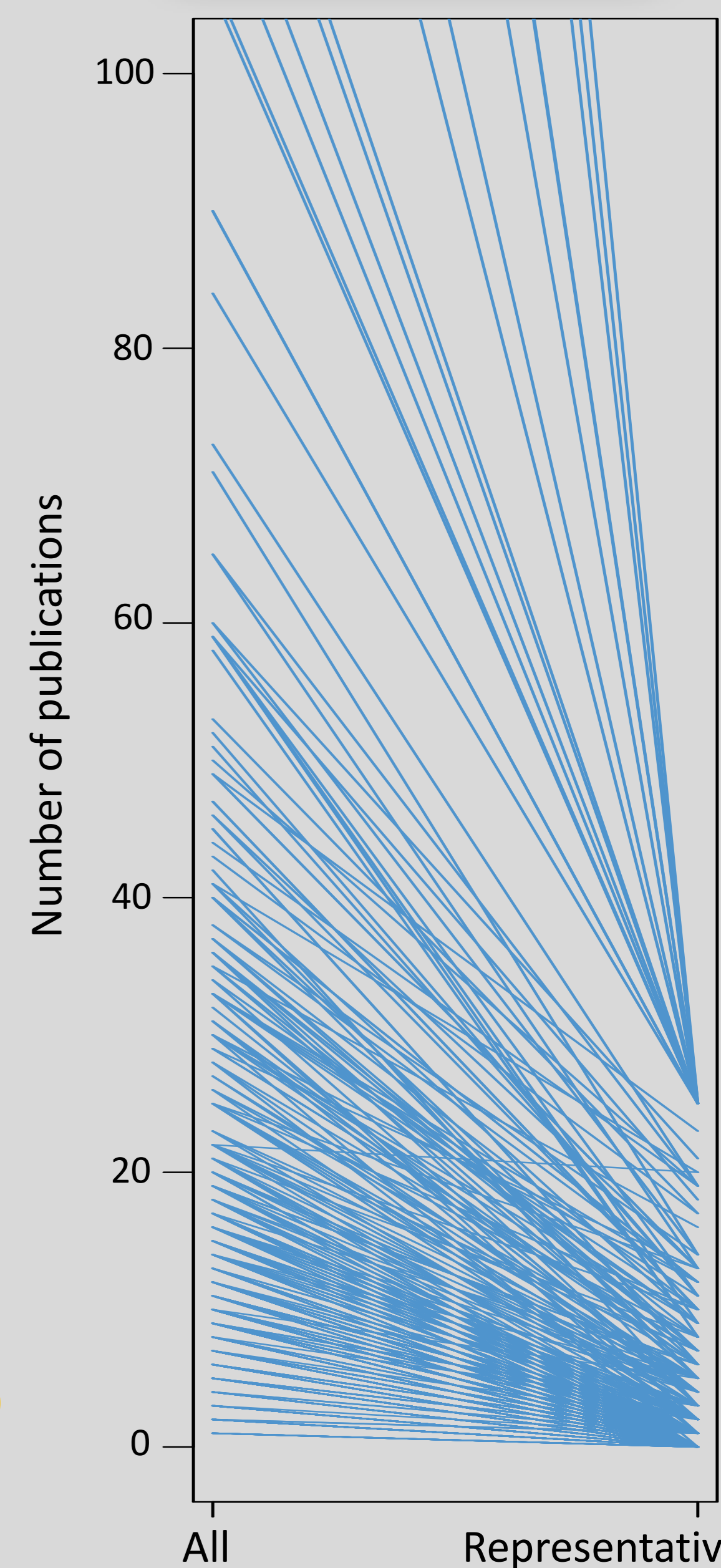
We have added a "Representative Publications" section to gene reports, which highlights up to 25 of the most relevant research papers for each gene. These are identified through an in-house scoring algorithm that assesses the amount and type of data associated to each protein coding gene, from each publication, within FlyBase.

FlyBase solution

We explored different scoring functions using various annotation data, aiming to prioritize those papers that report work directly on the gene.



Only references with a score higher than zero are displayed in the Representative publications section of the gene reports.



The total number of research papers associated to a gene (left) compared to the number of representative publications selected by our scoring function for the same gene (right), displayed for 500 random genes.

### References (1,820)

#### Publication Types

Representative publications 25

All publications 1820

Research paper 862

Sort by  Default order  
 Year (descending)  
 Year (ascending)  
 Author (a to z)  
 Author (z to a)



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