BeetleBase

RRID:SCR_001955
Type: Tool

Proper Citation

BeetleBase (RRID:SCR_001955)

Resource Information

URL: http://beetlebase.org/

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Description: A centralized sequence database and community resource for Tribolium genetics, genomics and developmental biology containing genomic sequence scaffolds mapped to 10 linkage groups, genetic linkage maps, the official gene set, Reference Sequences from NCBI (RefSeq), predicted gene models, ESTs and whole-genome tiling array data representing several developmental stages. The current version of Beetlebase is built on the Tribolium castaneum 3.0 Assembly (Tcas 3.0) released by the Human Genome Sequencing Center at the Baylor College of Medicine. The database is constructed using the upgraded Generic Model Organism Database (GMOD) modules. The genomic data is stored in a PostgreSQL relational database using the Chado schema and visualized as tracks in GBrowse. The genetic map is visualized using the comparative genetic map viewer CMAP. To enhance search capabilities, the BLAST search tool has been integrated with the GMOD tools. Tribolium castaneum is a very sophisticated genetic model organism among higher eukaryotes. As the member of a primitive order of holometabolous insects, Coleoptera, Tribolium is in a key phylogenetic position to understand the genetic innovations that accompanied the evolution of higher forms with more complex development. Coleoptera is also the largest and most species diverse of all eukaryotic orders and Tribolium offers the only genetic model for the profusion of medically and economically important species therein. The genome sequences may be downloaded.

Abbreviations: BEETLEBASE

Resource Type: database, analysis service resource, service resource, data or information resource, production service resource, data analysis service
**Defining Citation:** PMID:18362917, PMID:17090595

**Keywords:** red flour beetle, tribolium castaneum, sequence data, gene, mutant, genetic marker, expressed sequence tag, genome, blast, model organism, insect, developmental biology, genomics, genetics, entomology, development, bio.tools, FASEB list

**Funding Agency:** NCRR

**Availability:** Acknowledgement requested

**Resource Name:** BeetleBase

**Resource ID:** SCR_001955

**Alternate IDs:** nif-0000-02599, biotools:beetlebase

**Alternate URLs:** https://bio.tools/beetlebase

**Old URLs:** http://bioinformatics.k-state.edu/BeetleBase/, http://www.bioinformatics.ksu.edu/BeetleBase/

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**Ratings and Alerts**

No rating or validation information has been found for BeetleBase.

No alerts have been found for BeetleBase.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 81 mentions in open access literature.

**Listed below are recent publications.** The full list is available at RRID.


Communications biology, 3(1), 631.


Whittle CA, et al. (2019) Evidence of multifaceted functions of codon usage in translation within the model beetle Tribolium castaneum. DNA research : an international journal for rapid publication of reports on genes and genomes, 26(6), 473-484.


Evans JD, et al. (2018) Genome of the small hive beetle (Aethina tumida, Coleoptera: Nitidulidae), a worldwide parasite of social bee colonies, provides insights into detoxification and herbivory. GigaScience, 7(12).