

Resource Summary Report

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APHIDBASE

RRID:SCR_001765

Type: Tool

Proper Citation

APHIDBASE (RRID:SCR_001765)

Resource Information

URL: <http://www.aphidbase.com/aphidbase/>

Proper Citation: APHIDBASE (RRID:SCR_001765)

Description: Aphid genome database. Facilitates community annotation of pea aphid genome by International Aphid Genomics Consortium (IAGC). It aims to store recently acquired genomic resources on aphids and compare them to other insect resources as functional annotation tools. AphidBase Information System designed to organize and distribute genomic data and annotations for large international community was constructed using open source software tools from Generic Model Organism Database (GMOD).

Abbreviations: AphidBase

Synonyms: The Aphid Genome Database, Aphid Genome Database

Resource Type: service resource, data analysis service, database, analysis service resource, production service resource, data or information resource

Defining Citation: [PMID:20482635](#), [PMID:17237053](#)

Keywords: aphid, aphid gene sequence, aphid genome, aphid nervous system, genome, blast, annotate, annotation, est, function, FASEB list

Funding: Rennes Metropole ;
ANR Exdisum ;
ANR Genoplante

Availability: Free, Freely available

Resource Name: APHIDBASE

Resource ID: SCR_001765

Alternate IDs: nif-0000-02554

Alternate URLs: <http://w3.rennes.inra.fr/AphidBase>

Old URLs: <http://www.aphidbase.com/>

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260728T043118+0000

Ratings and Alerts

No rating or validation information has been found for APHIDBASE.

No alerts have been found for APHIDBASE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 68 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Defendini H, et al. (2025) The release of sexual conflict after sex loss is associated with evolutionary changes in gene expression. *Proceedings. Biological sciences*, 292(2039), 20242631.

Albuquerque L, et al. (2025) Exploring the Satellitome of the Pest Aphid *Acyrtosiphon pisum* (Hemiptera, Aphididae): Insights Into Genome Organization and Intraspecies Evolution. *Genome biology and evolution*, 17(7).

Lewis MT, et al. (2025) Host plant flooding stress in soybeans differentially impacts avirulent and virulent soybean aphid (*Aphis glycines*) biotypes. *Scientific reports*, 15(1), 4897.

Haller A, et al. (2025) Investigating a role for piRNA-associated piwi genes in overcoming host-plant resistance in the soybean aphid, *Aphis glycines*. *Journal of insect science* (Online), 25(3).

Sharma M, et al. (2024) Comparative transcriptomics of a generalist aphid, *Myzus persicae* and a specialist aphid, *Lipaphis erysimi* reveals molecular signatures associated with diversity of their feeding behaviour and other attributes. *Frontiers in plant science*, 15, 1415628.

Yuan E, et al. (2023) A novel gene REPTOR2 activates the autophagic degradation of wing disc in pea aphid. *eLife*, 12.

Feng H, et al. (2023) Horizontally transferred genes as RNA interference targets for aphid and whitefly control. *Plant biotechnology journal*, 21(4), 754.

- Byrne S, et al. (2022) Genome sequence of the English grain aphid, *Sitobion avenae* and its endosymbiont *Buchnera aphidicola*. *G3* (Bethesda, Md.), 12(3).
- Li B, et al. (2020) A large genomic insertion containing a duplicated follistatin gene is linked to the pea aphid male wing dimorphism. *eLife*, 9.
- Sparks ME, et al. (2020) Brown marmorated stink bug, *Halyomorpha halys* (Stål), genome: putative underpinnings of polyphagy, insecticide resistance potential and biology of a top worldwide pest. *BMC genomics*, 21(1), 227.
- Mathers TC, et al. (2020) Improved Genome Assembly and Annotation of the Soybean Aphid (*Aphis glycines* Matsumura). *G3* (Bethesda, Md.), 10(3), 899.
- Tian R, et al. (2020) Gene Expression Profiling Indicated Diverse Functions and Characteristics of Core Genes in Pea Aphid. *Insects*, 11(3).
- Mathers TC, et al. (2020) Genome Sequence of the Banana Aphid, *Pentalonia nigronervosa* Coquerel (Hemiptera: Aphididae) and Its Symbionts. *G3* (Bethesda, Md.), 10(12), 4315.
- Xie J, et al. (2020) Functional analysis of a novel orthologous small heat shock protein (shsp) hsp21.8a and seven species-specific shsps in *Tribolium castaneum*. *Genomics*, 112(6), 4474.
- Deshoux M, et al. (2020) Cuticular Structure Proteomics in the Pea Aphid *Acyrtosiphon pisum* Reveals New Plant Virus Receptor Candidates at the Tip of Maxillary Stylets. *Journal of proteome research*, 19(3), 1319.
- Rispe C, et al. (2020) The genome sequence of the grape phylloxera provides insights into the evolution, adaptation, and invasion routes of an iconic pest. *BMC biology*, 18(1), 90.
- Savoi S, et al. (2020) Comparative Transcriptome Analysis of Two Root-Feeding Grape Phylloxera (*D. vitifoliae*) Lineages Feeding on a Rootstock and *V. vinifera*. *Insects*, 11(10).
- Ribeiro Lopes M, et al. (2020) Evolutionary novelty in the apoptotic pathway of aphids. *Proceedings of the National Academy of Sciences of the United States of America*, 117(51), 32545.
- Li Y, et al. (2019) Gene Family Evolution in the Pea Aphid Based on Chromosome-Level Genome Assembly. *Molecular biology and evolution*, 36(10), 2143.
- Thompson MC, et al. (2019) The green peach aphid gut contains host plant microRNAs identified by comprehensive annotation of *Brassica oleracea* small RNA data. *Scientific reports*, 9(1), 18904.