

Resource Summary Report

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VectorBase

RRID:SCR_005917

Type: Tool

Proper Citation

VectorBase (RRID:SCR_005917)

Resource Information

URL: <http://www.vectorbase.org>

Proper Citation: VectorBase (RRID:SCR_005917)

Description: Bioinformatics Resource Center for invertebrate vectors. Provides web-based resources to scientific community conducting basic and applied research on organisms considered potential agents of biowarfare or bioterrorism or causing emerging or re-emerging diseases.

Abbreviations: VectorBase

Synonyms: VectorBase - Bioinformatics Resource for Invertebrate Vectors of Human Pathogens, VectorBase, vector base

Resource Type: data repository, data or information resource, database, storage service resource, service resource

Defining Citation: [PMID:22135296](#), [PMID:19028744](#), [PMID:18262474](#), [PMID:18237287](#), [PMID:17145709](#)

Keywords: blast, clustalw, hmmer, vector, genomics, genome, sequence, population, insecticide resistance, annotation, microarray, gene expression, anatomy, pathogen, human, transcript, transcriptome, protein, proteome, mitochondria sequence, bioinformatics resource center, pathogen, arthropoda, vector control, ontology, software, source code, mitochondrial sequence, data analysis service, image collection, FASEB list

Funding: NIAID ;
Evimalar network of excellence 242095;
INFRAVEC 228421;
European Union

Availability: Restricted

Resource Name: VectorBase

Resource ID: SCR_005917

Alternate IDs: nif-0000-03624, r3d100010880

Alternate URLs: <https://doi.org/10.17616/R3CK6B>

License URLs: <https://www.vectorbase.org/data-policies>,
<https://www.vectorbase.org/data-policies>

Record Creation Time: 20220129T080233+0000

Record Last Update: 20260804T043258+0000

Ratings and Alerts

No rating or validation information has been found for VectorBase.

No alerts have been found for VectorBase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 835 mentions in open access literature.

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

Popkin-Hall ZR, et al. (2025) Molecular evolution of gustatory receptors in the Anopheles gambiae complex. BMC ecology and evolution, 25(1), 22.

Worku N, et al. (2025) Insecticide resistant Anopheles from Ethiopia but not Burkina Faso show a microbiota composition shift upon insecticide exposure. Parasites & vectors, 18(1), 17.

Ogg HA, et al. (2025) Altered histone modifications in Aedes aegypti following Rift Valley fever virus exposure. bioRxiv : the preprint server for biology.

Goldman OV, et al. (2025) A single-nucleus transcriptomic atlas of the adult Aedes aegypti mosquito. Cell, 188(25), 7267.

Deng X, et al. (2025) Control of Aedes albopictus populations by silencing of the vesicular GABA transporter (vgat) and the vesicular monoamine transporter (vmat) genes using recombinant Chlorella shRNA. Parasites & vectors, 18(1), 414.

Cardoso-Jaime V, et al. (2025) Anopheles gambiae phagocytic hemocytes promote Plasmodium falciparum infection by regulating midgut epithelial integrity. Nature communications, 16(1), 1465.

Rehmann CT, et al. (2025) Sweeps in space: leveraging geographic data to identify beneficial alleles in *Anopheles gambiae*. *bioRxiv : the preprint server for biology*.

Devilliers J, et al. (2025) Hematophagy Generates a Convergent Genomic Signature in Mosquitoes and Sandflies. *Genome biology and evolution*, 17(3).

Ouali R, et al. (2025) Refining the annotation of *Rhodnius prolixus* aspartic proteases A1 family genes through proteogenomics. *Current research in parasitology & vector-borne diseases*, 7, 100253.

Wi??niewska MM, et al. (2025) Ovarian transcriptome analyses indicate that weak juvenile hormone signaling underlies the molecular basis of oogenesis deficiencies in mosquitoes. *BMC biology*, 23(1), 160.

Horejsi RV, et al. (2025) Quantitative ethology of schistosome miracidia characterizes a conserved snail peptide that inhibits penetration. *bioRxiv : the preprint server for biology*.

Nagi SC, et al. (2025) A multi-omic meta-analysis reveals novel mechanisms of insecticide resistance in malaria vectors. *Communications biology*, 8(1), 790.

Poteaux P, et al. (2025) The structural features and immunological role of biomphalysins in the snail *Biomphalaria glabrata*. *PLoS pathogens*, 21(6), e1013225.

Rehmann CT, et al. (2025) Sweeps in Space: Leveraging Geographic Data to Identify Beneficial Alleles in *Anopheles gambiae*. *Molecular biology and evolution*, 42(6).

Phipps BL, et al. (2025) Insulin-like peptides activate egg formation in the Asian malaria mosquito *Anopheles stephensi*. *Parasites & vectors*, 18(1), 399.

Sharma A, et al. (2025) Olfactory gene dynamics in invasive Indian and non-invasive African malaria vectors at the crossroads of development, infection and resistance. *Scientific reports*, 15(1), 37696.

Inbar E, et al. (2025) Successful insertion and expression of a tetracycline transactivator in *Anopheles stephensi* associated with increased egg production and decreased hatching rate. *Parasites & vectors*, 18(1), 433.

Omokungbe B, et al. (2025) RNA interference mediated mortality in *Aedes albopictus*: a challenging journey toward species-specific vector control. *Parasites & vectors*, 18(1), 463.

Goldman OV, et al. (2025) Mosquito Cell Atlas: A single-nucleus transcriptomic atlas of the adult *Aedes aegypti* mosquito. *bioRxiv : the preprint server for biology*.

Francis S, et al. (2025) Evaluating the potential of *Kalanchoe pinnata*, *Piper amalago* *amalago*, and other botanicals as economical insecticidal synergists against *Anopheles gambiae*. *Malaria journal*, 24(1), 25.