Resource Summary Report

Generated by NIF on May 16, 2025

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

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

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

Record Creation Time: 20220129T080233+0000

Record Last Update: 20250516T053809+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 787 mentions in open access literature.

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

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.

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.

Kumar V, et al. (2025) Midgut immune profiling and functional characterization of Aedes aegypti ABC transporter gene(s) using systemic and local bacterial challenges. Parasites &

vectors, 18(1), 34.

Djoko Tagne CS, et al. (2025) A single mutation G454A in the P450 CYP9K1 drives pyrethroid resistance in the major malaria vector Anopheles funestus reducing bed net efficacy. Genetics, 229(1), 1.

Blowes SA, et al. (2024) Synthesis reveals approximately balanced biotic differentiation and homogenization. Science advances, 10(8), eadj9395.

Ortega-Insaurralde I, et al. (2024) The pharyngeal taste organ of a blood-feeding insect functions in food recognition. BMC biology, 22(1), 63.

Kumar J, et al. (2024) A cub and sushi domain-containing protein with esterase-like activity confers insecticide resistance in the Indian malaria vector Anopheles stephensi. The Journal of biological chemistry, 300(10), 107759.

Tang X, et al. (2024) Dual roles for a tick protein disulfide isomerase during the life cycle of the Lyme disease agent. mBio, 15(12), e0175424.

Awuoche E, et al. (2024) Spiroplasma endosymbiont reduction of host lipid synthesis and Stomoxyn-like peptide contribute to trypanosome resistance in the tsetse fly Glossina fuscipes. bioRxiv : the preprint server for biology.

Bouafou LBA, et al. (2024) Chromosomal reference genome sequences for the malaria mosquito, Anopheles coustani, Laveran, 1900. Wellcome open research, 9, 551.

Chen T-Y, et al. (2024) Aedes aegypti adiponectin receptor-like protein signaling facilitates Zika virus infection. mBio, 15(11), e0243324.

Hekimo?lu O, et al. (2024) High Crimean-Congo hemorrhagic fever incidence linked to greater genetic diversity and differentiation in Hyalomma marginatum populations in Türkiye. Parasites & vectors, 17(1), 477.

Wang X-R, et al. (2024) The role of autophagy in tick-endosymbiont interactions: insights from Ixodes scapularis and Rickettsia buchneri. Microbiology spectrum, 12(1), e0108623.

Soboleva ES, et al. (2024) Two Nested Inversions in the X Chromosome Differentiate the Dominant Malaria Vectors in Europe, Anopheles atroparvus and Anopheles messeae. Insects, 15(5).

Wang S, et al. (2024) A cell atlas of the adult female Aedes aegypti midgut revealed by single-cell RNA sequencing. Scientific data, 11(1), 587.

Fola AA, et al. (2024) Genomics reveals heterogeneous Plasmodium falciparum transmission and population differentiation in Zambia and bordering countries. medRxiv : the preprint server for health sciences.

Shetty V, et al. (2024) Effects of circadian clock disruption on gene expression and biological processes in Aedes aegypti. BMC genomics, 25(1), 170.

Nagi SC, et al. (2024) Parallel evolution in mosquito vectors - a duplicated esterase locus is associated with resistance to pirimiphos-methyl in An. gambiae. bioRxiv : the preprint server for biology.

Zhang Q, et al. (2024) Scavenger Receptor C1 Mediates Toxicity of Binary Toxin from Lysinibacillus sphaericus to Ag55 Cells. Toxins, 16(8).

Adavi ED, et al. (2024) Olfactory receptor coexpression and co-option in the dengue mosquito. bioRxiv : the preprint server for biology.