

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

NGSEP

RRID:SCR_012827

Type: Tool

Proper Citation

NGSEP (RRID:SCR_012827)

Resource Information

URL: <http://sourceforge.net/projects/ngsep/>

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Description: Software whose main functionality is the variants detector, which allows to make simultaneous discovery of SNVs, small indels, and CNVs. Accurate variant calling across species and sequencing protocols. Used for analysis of DNA high throughput sequencing data.

Abbreviations: NGSEP

Synonyms: NGSEP3, Next Generation Sequencing Eclipse Plugin, Next Generation Sequencing Experience Platform

Resource Type: data analysis software, data processing software, software application, software resource

Defining Citation: [PMID:31099384](#)

Keywords: matlab, variants detector, SNVs discovery, CNVs discovery, variant calling, species, sequencing protocols, bio.tools

Availability: Free, Available for download, Freely available

Resource Name: NGSEP

Resource ID: SCR_012827

Alternate IDs: OMICS_00067, biotools:NGSEP

Alternate URLs: <https://bio.tools/NGSEP>

License: GNU General Public License version 3.0

Record Creation Time: 20220129T080312+0000

Record Last Update: 20260905T132728+0000

Ratings and Alerts

No rating or validation information has been found for NGSEP.

No alerts have been found for NGSEP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 75 mentions in open access literature.

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

Escobar MC, et al. (2026) Genome-based insights into metal co-resistance in Amazonian mercury-resistant bacteria: ecological lifestyle and biosafety implications for bioremediation. *Microbiology spectrum*, 14(6), e0312725.

Gil J, et al. (2026) Population Genomic Analyses Reveal Geographic Structure in *Rhizoctonia solani* AG1-IA Isolates Associated With Agronomic Crops. *Molecular ecology*, 35(9), e70359.

Lizcano-Salas AF, et al. (2026) First genome assemblies of Neotropical *Thoracobombus* bumblebees *Bombus pauloensis* and *Bombus pullatus*. *G3 (Bethesda, Md.)*, 16(3).

Tawfeeq MT, et al. (2026) Gim3 buffers and potentiates de novo mutations that affect fluconazole susceptibility in yeast. *EMBO reports*, 27(6), 1510.

Gonzalez-Garcia LN, et al. (2025) Genetic diversity and comparative genomics across *Leishmania* (Viannia) species. *Communications biology*, 8(1), 925.

Gonzalez-Garcia LN, et al. (2025) Genomic characterization of *Leishmania* (V.) *braziliensis* associated with antimony therapeutic failure and variable in vitro tolerance to amphotericin B. *Scientific reports*, 15(1), 12973.

Ariza-Suarez D, et al. (2025) Association genetics and genomic prediction for resistance to root rot in a diverse collection of *Pisum sativum* L. *BMC plant biology*, 26(1), 131.

Cruz-Saavedra L, et al. (2025) Variation in surface protein expression leads to heterogeneous *Trypanosoma cruzi* populations during host cell infection. *Nature communications*, 16(1), 9949.

Mendoza-Bustamante MÁ, et al. (2025) Exploring the genetic factors of nitrogen use efficiency in potato. *PloS one*, 20(11), e0325578.

Wang ZF, et al. (2025) Chromosome-scale assemblies of three *Ormosia* species: repetitive sequences distribution and structural rearrangement. *GigaScience*, 14.

Soler-Garzón A, et al. (2025) Mapping resistance to *Sclerotinia* white mold in two pinto bean recombinant inbred line populations. *The plant genome*, 18(1), e20538.

Paipilla G, et al. (2025) Genome-wide discovery of short sequence repeat markers useful for genetic diversity studies in Lima bean (*Phaseolus lunatus* L.). *Scientific reports*, 16(1), 1419.

Lee YB, et al. (2025) Genetic diversity and population structure analysis of *Forsythia ovata*, a Korean endemic, based on genotyping-by-sequencing. *PloS one*, 20(2), e0317278.

Medina CA, et al. (2025) Genome-Wide Association and Genomic Prediction of Alfalfa (*Medicago sativa* L.) Biomass Yield Under Drought Stress. *International journal of molecular sciences*, 26(2).

Fuentes L, et al. (2024) Genetic diversity of *Anadara tuberculosa* in two localities of the Colombian Pacific Coast. *Scientific reports*, 14(1), 28467.

Ospina JA, et al. (2024) Genome-wide association study of cassava brown streak disease resistance in cassava germplasm conserved in South America. *Scientific reports*, 14(1), 23141.

Hoyos Sanchez MC, et al. (2024) A phased genome assembly of a Colombian *Trypanosoma cruzi* TcI strain and the evolution of gene families. *Scientific reports*, 14(1), 2054.

Saavedra-Díaz C, et al. (2024) Genetic association analysis in sugarcane (*Saccharum* spp.) for sucrose accumulation in humid environments in Colombia. *BMC plant biology*, 24(1), 570.

Garcia-Abadillo J, et al. (2024) Sparse testing designs for optimizing predictive ability in sugarcane populations. *Frontiers in plant science*, 15, 1400000.

Izquierdo P, et al. (2024) Genome-wide association and genomic prediction for iron and zinc concentration and iron bioavailability in a collection of yellow dry beans. *Frontiers in genetics*, 15, 1330361.