

Resource Summary Report

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SMART

RRID:SCR_005026

Type: Tool

Proper Citation

SMART (RRID:SCR_005026)

Resource Information

URL: <http://smart.embl.de/>

Proper Citation: SMART (RRID:SCR_005026)

Description: Software tool for identification and annotation of genetically mobile domains and analysis of domain architectures.

Abbreviations: SMART

Synonyms: Simple Modular Architecture Research Tool

Resource Type: service resource, data access protocol, data analysis service, software resource, web service, data or information resource, database, production service resource, analysis service resource

Defining Citation: [PMID:18978020](#), [PMID:16381859](#), [PMID:14681379](#), [PMID:10592234](#), [PMID:9847187](#), [PMID:9600884](#)

Keywords: extracellular, gene, genetic, genetically, genome, architecture, chromatin, domain, mobile, phyletic, protein, proteome, signaling, structure, taxonomic, tertiary, bio.tools, FASEB list

Funding: European Union

Availability: Free, Freely available

Resource Name: SMART

Resource ID: SCR_005026

Alternate IDs: nif-0000-03471, biotools:smart

Alternate URLs: <http://smart.embl-heidelberg.de/>, <https://bio.tools/smart>

Record Creation Time: 20220129T080228+0000

Record Last Update: 20260731T042705+0000

Ratings and Alerts

No rating or validation information has been found for SMART.

No alerts have been found for SMART.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 6760 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Yuasa-Kawada J, et al. (2026) Neuronal guidance signaling in neurodegenerative diseases: Key regulators that function at neuron-glia and neuroimmune interfaces. *Neural regeneration research*, 21(2), 612.

Lu P, et al. (2026) Bromodomain-containing protein 4 knockdown promotes neuronal ferroptosis in a mouse model of subarachnoid hemorrhage. *Neural regeneration research*, 21(2), 715.

Zhu W, et al. (2026) Secreted Glycoside Hydrolase BcGH61 From *Botrytis cinerea* Induces Cell Death by the Apoplastic Location and Triggers Intracellular Immune Perception. *Molecular plant pathology*, 27(1), e70199.

Basak S, et al. (2026) Novel Roles for the Ectoenzyme CD38 in the Maintenance of Transcriptional and Metabolic Homeostasis in Astrocytes. *Glia*, 74(2), e70112.

Mu W, et al. (2025) The haplotype-resolved T2T genome for *Bauhinia* ?? *blakeana* sheds light on the genetic basis of flower heterosis. *GigaScience*, 14.

Hathi P, et al. (2025) Extracellular adenosine deamination primes tip organizer development in *Dictyostelium*. *eLife*, 14.

Bergheim BG, et al. (2025) Molecular dynamics of the matrisome across sea anemone life history. *eLife*, 14.

La Paglia L, et al. (2025) Bioinformatics analyses of the proteome of *Holothuria tubulosa* coelomic fluid and the first evidence of primary cilium in coelomocyte cells. *Frontiers in immunology*, 16, 1539751.

Goulding R, et al. (2025) Transgender and gender diverse youths' experiences of healthcare: A systematic review of qualitative studies. *Journal of child health care* : for

professionals working with children in the hospital and community, 29(2), 523.

Eskes ECB, et al. (2025) Natural disease course of chronic visceral acid sphingomyelinase deficiency in adults: A first step toward treatment criteria. *Journal of inherited metabolic disease*, 48(1), e12789.

Janssen TWP, et al. (2025) Explore your brain: A randomized controlled trial into the effectiveness of a growth mindset intervention with psychosocial and psychophysiological components. *The British journal of educational psychology*, 95(2), 280.

Lu K, et al. (2025) Characterization of Spectrin Family Genes and Their Evolutionary Roles in Domestication and Breeding of the Silkworm *Bombyx mori*. *Insects*, 16(6).

Liu Y, et al. (2025) Comprehensive Analysis of the UGT Gene Superfamily in *Spodoptera frugiperda*. *Insects*, 16(6).

Liu W, et al. (2025) Genome Annotation of Molting-Related Protein-Coding Genes in *Propiloceris akamusi* Reveals Transcriptomic Responses to Heavy Metal Contamination. *Insects*, 16(6).

Otte A, et al. (2025) High-resolution multiomics links nutrients and mixotrophy to toxicity in a harmful bloom of the haptophyte *Chrysochromulina leadbeateri*. *Science advances*, 11(26), eadv3390.

Wei S, et al. (2025) A self-monitoring analysis and reporting technology dataset of 147,496 hard disks. *Scientific data*, 12(1), 1125.

Meng C, et al. (2025) Genome-wide identification of GDPD gene family in foxtail millet (*Setaria italica* L.) and functional characterization of SiGDPD14 under low phosphorus stress. *Frontiers in plant science*, 16, 1586547.

Lee HA, et al. (2025) Implementing a Cross-Border Next-Generation Personal Health Record in the Philippines and Taiwan: An Implementation Case Report Using Health Level 7 International Fast Healthcare Interoperability Resources. *JMIR formative research*, 9, e56272.

Sang S, et al. (2025) Genome-wide analysis of the CBF gene family and their transcriptional response to cold stress in *Hibiscus mutabilis*. *Scientific reports*, 15(1), 23808.

Zhang J, et al. (2025) Genome-wide identification, transcriptional profiling, and miRNA-binding site analysis of the LBD gene family in the camphor tree. *Frontiers in plant science*, 16, 1591736.