

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

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: 20260819T044128+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 8432 mentions in open access literature.

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

Mao C, et al. (2026) Chromosome-level genome assembly and transcriptomes of the leaf insect *Cryptophyllum westwoodii* provide insights into the evolution of leaf-like masquerade. *GigaScience*, 15.

Chen P, et al. (2026) *Bombyx mori* Jun gene is involved in endoreplication of silk gland cells by regulating S-phase cell cycle genes. *Journal of advanced research*, 82, 367.

Shi X, et al. (2026) Cellular uptake of extracellular dsRNA is tissue-dependent in insects. *BMC biology*, 24(1).

Tian C, et al. (2026) 20-hydroxyecdysone promotes brain development via upregulating MMP2 expression during metamorphosis in *Helicoverpa armigera*. *PLoS genetics*, 22(1), e1012032.

Ying J, et al. (2026) Genome-wide identification, characterization and expression analysis of the HSP70 gene family in seagrass *Zostera marina* under abiotic stress. *BMC plant biology*, 26(1).

Li H, et al. (2026) Genome-wide identification of the GLK gene family in wheat (*Triticum aestivum* L.) and analysis of expression responses in different environments. *BMC genomics*, 27(1), 78.

Zhang X, et al. (2026) Evolutionary history and functional diversification of WOX genes in *Annona Atemoya*. *BMC plant biology*, 26(1), 312.

Chosyang S, et al. (2026) Comparative analysis of the Aquaporin gene family in Cucurbitaceae: insights into evolutionary patterns and functional diversity. *BMC plant biology*, 26(1), 297.

Chen Y, et al. (2026) Genome-wide identification, classification and expression analysis of laccase family members in *Solanum lycopersicum*. *BMC plant biology*, 26(1), 337.

Yue Y, et al. (2026) ADA2 Forms Nuclear Condensates with GCN5 and ATP-Citrate Lyase (ACL) to Modulate H3K9 Acetylation at Genes Functioning in Rice Meristems. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(5), e13169.

Zada D, et al. (2026) Convergent thyroid-ATPase interactions regulate collective behavior in *Danionella*. *Cell reports*, 45(1), 116730.

Nawrocka WI, et al. (2026) Nematode extracellular protein interactome expands connections between signaling pathways. *Cell genomics*, 6(5), 101161.

Zhang L, et al. (2026) Quercetin upregulates steroid hormone biosynthesis to enhance reproductive performance in roosters. *Poultry science*, 105(4), 106590.

Cheng F, et al. (2026) Glycoside Hydrolase CaGH17-12 Contributes to *Phytophthora* Blight Resistance by Activating the Production of Reactive Oxygen Species and Jasmonic Acid Signalling in Pepper. *Molecular plant pathology*, 27(2), e70212.

Liu X, et al. (2026) Evolutionary and functional characterization of BBX genes in the barley pangenome. *BMC plant biology*, 26(1).

Li Z, et al. (2026) Genome-Wide Characterization of the wnt Gene Family Reveals a wnt5b-Mediated Regulatory Mechanism of Testicular Development in *Cynoglossus semilaevis*. *Animals : an open access journal from MDPI*, 16(3).

Wang Y, et al. (2026) A novel inversion at 17q12 disrupting HNF1B gene in a patient with renal cysts and diabetes syndrome. *BMC medical genomics*, 19(1).

Ren H, et al. (2026) Arabica coffee SBP transcription factor family members respond to brown leaf spot stress by regulating their expression. *BMC plant biology*, 26(1).

Wu X, et al. (2026) Acupuncture as a modulator of microglial polarization and pyroptosis in depression: evidence from a chronic unpredictable mild stress rat model. *Metabolic brain disease*, 41(1), 20.

Ajmera S, et al. (2026) Curation of the *Fasciola hepatica* kinome as a resource for drug target discovery. *BMC genomics*, 27(1), 98.