

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 30, 2026

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 or information resource, data analysis service, database, data access protocol, software resource, production service resource, web service, 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: 20260729T044112+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 [SPARC SAWG](#) .

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.

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.

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.

Fusco L, et al. (2025) Nanoplastics: Immune Impact, Detection, and Internalization after Human Blood Exposure by Single-Cell Mass Cytometry. Advanced materials (Deerfield Beach, Fla.), 37(12), e2413413.

Li J, et al. (2025) Understanding the Antidepressant Mechanisms of Acupuncture: Targeting Hippocampal Neuroinflammation, Oxidative Stress, Neuroplasticity, and Apoptosis in CUMS Rats. Molecular neurobiology, 62(4), 4221.

Majer J, et al. (2025) Infant and young child feeding practices among conflict-affected Ukrainian households: A cross-sectional survey in Kyiv, Lviv and Odesa regions. Maternal & child nutrition, 21(1), e13742.

García-Bolao I, et al. (2025) Real-world outcomes in cardiac resynchronization therapy patients: Primary results of the SMART registry. ESC heart failure, 12(3), 1832.

Belzer ME, et al. (2025) An Adaptive Antiretroviral Therapy Adherence Intervention for Youth with HIV Through Text Message and Cell Phone Support with and without Incentives: A Sequential Multiple Assignment Randomized Trial (SMART). AIDS and behavior, 29(3), 769.

Cai H, et al. (2025) Relationship between CTF1 gene expression and prognosis and tumor immune microenvironment in glioma. European journal of medical research, 30(1), 17.

Liu T, et al. (2025) Transcriptomic analysis reveals the crucial role of YABBY genes family in hormonal induced parthenocarp in Cucumis sativus L. BMC plant biology, 25(1), 45.

Yang HW, et al. (2025) Dual-Cys bacteriophytochromes: intermediates in cyanobacterial phytochrome evolution? The FEBS journal, 292(5), 1197.

Zhu Y, et al. (2025) In-depth analysis of 17,115 rice transcriptomes reveals extensive viral diversity in rice plants. Nature communications, 16(1), 1559.