

Resource Summary Report

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Schmidtea mediterranea Genome Database

RRID:SCR_007934

Type: Tool

Proper Citation

Schmidtea mediterranea Genome Database (RRID:SCR_007934)

Resource Information

URL: <http://smedgd.neuro.utah.edu>

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Description: A database that integrates all available data associated with the planarian genome, including predicted and annotated genes, ESTs, protein homologies, gene expression patterns and RNAi phenotypes. It is GMOD compliant. The planarian Schmidtea mediterranea is rapidly emerging as a key model organism for the study of regeneration, tissue homeostasis and stem cell biology. Thus, SmedGD features a genome browser, BLAST capability, and other search options in order to facilitate the advancement of scientific knowledge of this organism.

Abbreviations: SmedGD

Resource Type: data or information resource, database

Keywords: planeria

Resource Name: Schmidtea mediterranea Genome Database

Resource ID: SCR_007934

Record Creation Time: 20220129T080244+0000

Record Last Update: 20260912T200155+0000

Ratings and Alerts

No rating or validation information has been found for Schmidtea mediterranea Genome Database.

No alerts have been found for Schmidtea mediterranea Genome Database.

Data and Source Information

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Gao L, et al. (2021) Planarian gamma-interferon-inducible lysosomal thiol reductase (GILT) is required for gram-negative bacterial clearance. *Developmental and comparative immunology*, 116, 103914.

Kim SH, et al. (2021) Hypoxic and nitrosative stress conditions modulate expression of myoglobin genes in a carcinogenic hepatobiliary trematode, *Clonorchis sinensis*. *PLoS neglected tropical diseases*, 15(9), e0009811.

Tan JH, et al. (2020) Alternative splicing of coq-2 controls the levels of rhodoquinone in animals. *eLife*, 9.

Cao PL, et al. (2019) JmjC Domain-Encoding Genes Are Conserved in Highly Regenerative Metazoans and Are Associated with Planarian Whole-Body Regeneration. *Genome biology and evolution*, 11(2), 552.

Otero L, et al. (2019) Complex I and II Subunit Gene Duplications Provide Increased Fitness to Worms. *Frontiers in genetics*, 10, 1043.

Tsoumtsia LL, et al. (2018) In silico analysis of *Schmidtea mediterranea* TIR domain-containing proteins. *Developmental and comparative immunology*, 86, 214.

Bae YA, et al. (2017) Codon Usage Patterns of Tyrosinase Genes in *Clonorchis sinensis*. *The Korean journal of parasitology*, 55(2), 175.

Arenas OM, et al. (2017) Activation of planarian TRPA1 by reactive oxygen species reveals a conserved mechanism for animal nociception. *Nature neuroscience*, 20(12), 1686.

Vöcking O, et al. (2017) Co-expression of xenopsin and rhabdomeric opsin in photoreceptors bearing microvilli and cilia. *eLife*, 6.

Torre C, et al. (2017) *Staphylococcus aureus* Promotes Smed-PGRP-2/Smed-setd8-1 Methyltransferase Signalling in Planarian Neoblasts to Sensitize Anti-bacterial Gene Responses During Re-infection. *EBioMedicine*, 20, 150.

Goupil LS, et al. (2016) Cysteine and Aspartyl Proteases Contribute to Protein Digestion in the Gut of Freshwater Planaria. *PLoS neglected tropical diseases*, 10(8), e0004893.

Wang C, et al. (2016) Forkhead containing transcription factor Albino controls tetrapyrrole-based body pigmentation in planarian. *Cell discovery*, 2, 16029.

Pang Q, et al. (2016) De Novo Transcriptome Analysis Provides Insights into Immune Related Genes and the RIG-I-Like Receptor Signaling Pathway in the Freshwater

Planarian (*Dugesia japonica*). PloS one, 11(3), e0151597.

Guo A, et al. (2015) Comparative analysis of cystatin superfamily in platyhelminths. PloS one, 10(4), e0124683.

Monjo F, et al. (2015) Embryonic development of the nervous system in the planarian *Schmidtea polychroa*. Developmental biology, 397(2), 305.

Gao Z, et al. (2014) Phylogenetic analysis of the endoribonuclease Dicer family. PloS one, 9(4), e95350.

Cantacessi C, et al. (2013) A genome-wide analysis of annexins from parasitic organisms and their vectors. Scientific reports, 3, 2893.

Beckmann S, et al. (2012) Discovery of platyhelminth-specific α -integrin families and evidence for their role in reproduction in *Schistosoma mansoni*. PloS one, 7(12), e52519.

Chalmers IW, et al. (2012) Platyhelminth Venom Allergen-Like (VAL) proteins: revealing structural diversity, class-specific features and biological associations across the phylum. Parasitology, 139(10), 1231.

Taman A, et al. (2011) Characterization of a truncated metabotropic glutamate receptor in a primitive metazoan, the parasitic flatworm *Schistosoma mansoni*. PloS one, 6(11), e27119.