

Resource Summary Report

Generated by SPARC SAWG on Aug 8, 2026

Signaling Pathway Database

RRID:SCR_008243

Type: Tool

Proper Citation

Signaling Pathway Database (RRID:SCR_008243)

Resource Information

URL: <http://www.grt.kyushu-u.ac.jp/spad/>

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Description: It is divided to four categories based on extracellular signal molecules (Growth factor, Cytokine, and Hormone) and stress, that initiate the intracellular signaling pathway. SPAD is compiled in order to describe information on interaction between protein and protein, protein and DNA as well as information on sequences of DNA and proteins. There are multiple signal transduction pathways: cascade of information from plasma membrane to nucleus in response to an extracellular stimulus in living organisms. Extracellular signal molecule binds specific intracellular receptor, and initiates the signaling pathway. Now, there is a large amount of information about the signaling pathway which controls the gene expression and cellular proliferation. We have developed an integrated database SPAD to understand the overview of signaling transduction.

Abbreviations: SPAD

Synonyms: Signaling Pathway Database

Resource Type: database, data or information resource

Keywords: expression, extracellular, gene, cellular, cytokine, dna, growth factor, hormone, intermolecular interactions and signaling pathways databases, intracellular, molecule, organism, pathway, plasma membrane, proliferation, protein, receptor, response, sequence, signal, stimulus, stress, transduction, FASEB list

Resource Name: Signaling Pathway Database

Resource ID: SCR_008243

Alternate IDs: nif-0000-21376

Record Creation Time: 20220129T080246+0000

Ratings and Alerts

No rating or validation information has been found for Signaling Pathway Database.

No alerts have been found for Signaling Pathway Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

López-I-Gelats F, et al. (2025) Effect of farm size on vulnerability in beekeeping: Insights from mediterranean Spain. *Ambio*, 54(4), 696.

Li S, et al. (2025) Photon-counting Raman spectroscopy at a MHz spectral rate for biochemical imaging of an entire organism. *Nature communications*, 16(1), 3808.

Uysal Y, et al. (2024) Rosemary-Mediated Green Synthesis of ZnO Nanoparticles and their Integration into Hydrogel Matrices: Evaluating Effects on Wheat Growth and Antibacterial Properties. *Global challenges* (Hoboken, NJ), 8(11), 2400120.

Perego E, et al. (2023) Single-photon microscopy to study biomolecular condensates. *Nature communications*, 14(1), 8224.

Gennaro A, et al. (2023) Social Environment and Attitudes toward COVID-19 Anti-Contagious Measures: An Explorative Study from Italy. *International journal of environmental research and public health*, 20(4).

Benito I, et al. (2021) Microencapsulated *Bifidobacterium bifidum* and *Lactobacillus gasseri* in Combination with Quercetin Inhibit Colorectal Cancer Development in ApcMin/+ Mice. *International journal of molecular sciences*, 22(9).

O'Rourke JA, et al. (2021) Mining Fiskeby III and Mandarin (Ottawa) Expression Profiles to Understand Iron Stress Tolerant Responses in Soybean. *International journal of molecular sciences*, 22(20).

He W, et al. (2021) Evaluation of effective quantum yields of photosystem II for CO₂ leakage monitoring in carbon capture and storage sites. *PeerJ*, 9, e10652.

Ridao P, et al. (2021) Parental Beliefs about Childhood and Adolescence from a Longitudinal Perspective. *International journal of environmental research and public health*, 18(4).

Mitev V, et al. (2020) Discrimination of entangled photon pair from classical photons by de Broglie wavelength. *Scientific reports*, 10(1), 7087.

Ma B, et al. (2019) Experimental and Numerical Investigation of Dustfall Effect on Remote Sensing Retrieval Accuracy of Chlorophyll Content. *Sensors (Basel, Switzerland)*, 19(24).

Seror V, et al. (2019) Women's Attitudes Toward Invasive and Noninvasive Testing When Facing a High Risk of Fetal Down Syndrome. *JAMA network open*, 2(3), e191062.

Muola A, et al. (2018) Folivory has long-term effects on sexual but not on asexual reproduction in woodland strawberry. *Ecology and evolution*, 8(23), 12250.

Hernández CL, et al. (2017) The distribution of mitochondrial DNA haplogroup H in southern Iberia indicates ancient human genetic exchanges along the western edge of the Mediterranean. *BMC genetics*, 18(1), 46.

Kihal-Talantikite W, et al. (2017) Developing a data-driven spatial approach to assessment of neighbourhood influences on the spatial distribution of myocardial infarction. *International journal of health geographics*, 16(1), 22.

Kim MM, et al. (2016) A Comparison of Singlet Oxygen Explicit Dosimetry (SOED) and Singlet Oxygen Luminescence Dosimetry (SOLD) for Photofrin-Mediated Photodynamic Therapy. *Cancers*, 8(12).

Mancini J, et al. (2016) Disclosure of research results: a randomized study on GENEPSO-PS cohort participants. *Health expectations : an international journal of public participation in health care and health policy*, 19(5), 1023.

Sponholz C, et al. (2016) Molecular adsorbent recirculating system and single-pass albumin dialysis in liver failure--a prospective, randomised crossover study. *Critical care (London, England)*, 20, 2.

Mignon-Grasteau S, et al. (2015) Impact of Selection for Digestive Efficiency on Microbiota Composition in the Chicken. *PloS one*, 10(8), e0135488.

Hauck AL, et al. (2015) Characterization of mature maize (*Zea mays* L.) root system architecture and complexity in a diverse set of Ex-PVP inbreds and hybrids. *SpringerPlus*, 4, 424.