

# Resource Summary Report

Generated by [dkNET](#) on Aug 30, 2026

## SIGEN

RRID:SCR\_016284

Type: Tool

### Proper Citation

SIGEN (RRID:SCR\_016284)

### Resource Information

**URL:** <https://sites.google.com/site/sigenproject/>

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**Description:** Software to extract and trace neuronal structure from confocal laser scanning microscope images. It performs the automatic reconstruction of neurons for image stacks and can generate compartmental models of neurons as swc file format data.

**Synonyms:** Simulation of Geometrical and Electrical properties of Neuron, SIGEN: Simulation of Geometrical and Electrical properties of Neuron

**Resource Type:** data processing software, image analysis software, image reconstruction software, segmentation software, software application, software resource

**Keywords:** segmentation, neuron, confocal, laser, scan, microscopy, reconstruction, swc, confocal, laser, microscopy

**Availability:** Free, Available for download

**Resource Name:** SIGEN

**Resource ID:** SCR\_016284

**Record Creation Time:** 20220129T080329+0000

**Record Last Update:** 20260829T182537+0000

### Ratings and Alerts

No rating or validation information has been found for SIGEN.

No alerts have been found for SIGEN.

### Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Hu Z, et al. (2026) Multi-omics integration and machine learning reveal gut-immune signatures in idiopathic pulmonary fibrosis: insights from bulk RNA-seq, single-cell profiles, spatial transcriptomics, and experimental validation. *Frontiers in immunology*, 17, 1730289.

Kumaraswamy A, et al. (2019) Adaptations during Maturation in an Identified Honeybee Interneuron Responsive to Waggle Dance Vibration Signals. *eNeuro*, 6(5).

Ikeno H, et al. (2018) A Segmentation Scheme for Complex Neuronal Arbors and Application to Vibration Sensitive Neurons in the Honeybee Brain. *Frontiers in neuroinformatics*, 12, 61.