

# Resource Summary Report

Generated by [nidm-terms](#) on Jul 28, 2026

## PS-Plant Framework

RRID:SCR\_017032

Type: Tool

### Proper Citation

PS-Plant Framework (RRID:SCR\_017032)

### Resource Information

**URL:** <https://github.com/g2-bernotas/PS-Plant-Framework>

**Proper Citation:** PS-Plant Framework (RRID:SCR\_017032)

**Description:** Software tool as end to end software for data acquisition, processing, and result extraction of Arabidopsis thaliana growth. Framework uses photometric stereo based 3D imaging system with computer vision and deep learning for tracking and quantifying both plant growth and movement parameters.

**Abbreviations:** PS-Plant

**Resource Type:** data visualization software, 3d visualization software, data analysis software, 2d spatial image, image, software resource, image analysis software, software application, time-series analysis software, software development tool, 3d time-series analysis software, data processing software, segmentation software, code testing framework, workflow software, data or information resource

**Keywords:** photometric, 3D, imaging, tracking, plant, growth, arabidopsis, thaliana, leaf, angle, segmentation, machine, learning, near-infrared, (NIR), LED, photomorphogenesis, thermomorphogenesis, bio.tools

**Funding:** BBSRC BB/N02334X/1;  
BBSRC BB/M025551/1;  
BBSRC BB/N005147/1

**Availability:** Free, Available for download, Freely available

**Resource Name:** PS-Plant Framework

**Resource ID:** SCR\_017032

**Alternate IDs:** biotools:PS-Plant

**Alternate URLs:** <https://bio.tools/PS-Plant>

**License:** GNU GPL v3

**Record Creation Time:** 20220129T080333+0000

**Record Last Update:** 20260728T043529+0000

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## Ratings and Alerts

No rating or validation information has been found for PS-Plant Framework.

No alerts have been found for PS-Plant Framework.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Bernotas G, et al. (2019) A photometric stereo-based 3D imaging system using computer vision and deep learning for tracking plant growth. GigaScience, 8(5).