

# Resource Summary Report

Generated by [NIF](#) on Aug 26, 2026

## GrowthToolbox

RRID:SCR\_015754

Type: Tool

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### Proper Citation

GrowthToolbox (RRID:SCR\_015754)

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### Resource Information

**URL:** <https://sourceforge.net/projects/gftbox/>

**Proper Citation:** GrowthToolbox (RRID:SCR\_015754)

**Description:** Analysis software for analysis of finite elements and simulations of 3D shape changes in a tissue that result from patterns of growth. It works with Matlab to model biological growth of leaves, petals, and similar organs.

**Abbreviations:** GFtbox

**Synonyms:** GFtbox

**Resource Type:** data analysis software, data processing software, simulation software, software application, software resource

**Defining Citation:** [PMID:21698124](#)

**Keywords:** 3d object, finite element, growth, growth pattern, matlab

**Funding:** BBSRC BB/F005997/1;  
BBSRC BB/F005555/1

**Availability:** Free, Available for download

**Resource Name:** GrowthToolbox

**Resource ID:** SCR\_015754

**Alternate URLs:**

[http://cmpdartsvr3.cmp.uea.ac.uk/wiki/BanghamLab/index.php/Main\\_Page](http://cmpdartsvr3.cmp.uea.ac.uk/wiki/BanghamLab/index.php/Main_Page)

**Record Creation Time:** 20220129T080327+0000

**Record Last Update:** 20260821T194026+0000

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## Ratings and Alerts

No rating or validation information has been found for GrowthToolbox.

No alerts have been found for GrowthToolbox.

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## 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 [NIF](#) .

Liao H, et al. (2020) The morphology, molecular development and ecological function of pseudonectaries on *Nigella damascena* (Ranunculaceae) petals. *Nature communications*, 11(1), 1777.

Lee KJI, et al. (2019) Shaping of a three-dimensional carnivorous trap through modulation of a planar growth mechanism. *PLoS biology*, 17(10), e3000427.

Le Garrec JF, et al. (2017) A predictive model of asymmetric morphogenesis from 3D reconstructions of mouse heart looping dynamics. *eLife*, 6.