

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

GrowthToolbox

RRID:SCR_015754

Type: Tool

Proper Citation

GrowthToolbox (RRID:SCR_015754)

Resource Information

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

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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 processing software, data analysis software, simulation software, software resource, software application

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

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260731T042955+0000

Ratings and Alerts

No rating or validation information has been found for GrowthToolbox.

No alerts have been found for GrowthToolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

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.