

# Resource Summary Report

Generated by SPARC SAWG on Sep 18, 2026

## ABSORB: Atlas Building by Self-Organized Registration and Bundling

RRID:SCR\_007018

Type: Tool

---

### Proper Citation

ABSORB: Atlas Building by Self-Organized Registration and Bundling  
(RRID:SCR\_007018)

---

### Resource Information

**URL:** <http://bric.unc.edu/ideagroup/free-softwares/ABSORB/>

**Proper Citation:** ABSORB: Atlas Building by Self-Organized Registration and Bundling  
(RRID:SCR\_007018)

**Description:** This software package implements an algorithm for effective groupwise registration. The required input is a set of 3D MR intensity images (in Analyze format with paired .hdr and .img files) with a text file (.txt) listing all header file (.hdr) names. The output is the set of registered images together with the corresponding dense deformation fields. This software has been tested on Windows XP (32-bit) and Linux (64-bit, kernel version 2.6.18-194.el5). The images should be pre-processed before applying ABSORB: \* All brain MR images used as inputs to ABSORB should be in the same situation (e.g., skull-stripped or not, cerebellum removed or not, etc.). \* The input images should be in Analyze format with paired header and image files. This software was developed in IDEA group in UNC-Chapel Hill.

**Abbreviations:** ABSORB

**Synonyms:** ABSORB: Atlas Building by Self-Organized Registration Bundling, Atlas Building by Self-Organized Registration Bundling, Atlas Building by Self-Organized Registration and Bundling

**Resource Type:** data processing software, image analysis software, registration software, software application, software resource, source code

**Defining Citation:** [PMID:20226255](https://pubmed.ncbi.nlm.nih.gov/20226255/)

**Keywords:** image, registration, bundling, atlas, magnetic resonance, algorithm or reusable library, intermodal, intersubject, intrasubject, image-to-template, affine warp, nonlinear warp

**Availability:** Free, Public

**Resource Name:** ABSORB: Atlas Building by Self-Organized Registration and Bundling

**Resource ID:** SCR\_007018

**Alternate IDs:** nlx\_144409

**Alternate URLs:** <http://www.nitrc.org/projects/absorb>

**Record Creation Time:** 20220129T080239+0000

**Record Last Update:** 20260912T195649+0000

---

## Ratings and Alerts

No rating or validation information has been found for ABSORB: Atlas Building by Self-Organized Registration and Bundling.

No alerts have been found for ABSORB: Atlas Building by Self-Organized Registration and Bundling.

---

## Data and Source Information

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

---

## Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Wu Y, et al. (2012) Comparison of acute recoil between bioabsorbable poly-L-lactic acid XINSORB stent and metallic stent in porcine model. Journal of biomedicine & biotechnology, 2012, 413956.