

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 10, 2026

MuscleJ

RRID:SCR_020995

Type: Tool

Proper Citation

MuscleJ (RRID:SCR_020995)

Resource Information

URL: <https://github.com/ADanckaert/MuscleJ>

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Description: Software tool to allow characterization of parameters analyzed in fundamental and clinical studies in skeletal muscle field. Running on open source Fiji software platform, simultaneously analyzes parameters from immunofluorescent staining, imaged by different acquisition systems in completely automated manner. Used to analyze muscle cross-sectional area, fiber typing, localization of nuclei within muscle fiber, number of vessels, fiber associated stem cells parameters simultaneously.

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

Defining Citation: [PMID:30081940](#)

Keywords: Immunofluorescent staining, parameters analysis, skeletal muscle, analyze muscle cross sectional area, fiber typing, nuclei localization within muscle fiber, vessels number, fiber associated stem cells

Funding: AFM ;
FFRD ;
AFD ;
AstraZeneca ;
Eli Lilly ;
Merck Sharp & Dohme ;
Novo Nordisk & Sanofi ;
Fondation de France ;
European Genomic Institute for Diabetes

Availability: Free, Available for download, Freely available

Resource Name: MuscleJ

Resource ID: SCR_020995

License URLs: <https://github.com/ADanckaert/MuscleJ/blob/master/License.txt>

Record Creation Time: 20220129T080353+0000

Record Last Update: 20260810T040727+0000

Ratings and Alerts

No rating or validation information has been found for MuscleJ.

No alerts have been found for MuscleJ.

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 [SPARC SAWG](#) .

Fennel ZJ, et al. (2026) Stem Cell Secretome Treatment Reduces Adiposity and Improves Glucose Handling During Obesity and Weight Loss in Mice. Obesity (Silver Spring, Md.), 34(2), 382.

Männistö A, et al. (2025) Combined angiogenic and hypertrophic gene therapy enhances skeletal muscle growth. American journal of physiology. Cell physiology, 329(2), C540.

Clemens Z, et al. (2021) The biphasic and age-dependent impact of klotho on hallmarks of aging and skeletal muscle function. eLife, 10.