

Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

Muscle X

RRID:SCR_018811

Type: Tool

Proper Citation

Muscle X (RRID:SCR_018811)

Resource Information

URL: <https://github.com/biocatiit/musclex>

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Description: Software suite as collection of programs intended to assist with analyzing diffraction X-ray images. MuscleX diffraction X-ray image analyzing toolkit. Data reduction software for X-ray fiber diffraction data.

Synonyms: MuscleX, Muscle X 1.14.12

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

Keywords: Diffraction analysis, x ray image, diffraction X-Ray image analysis, X-ray data, X-ray fiber diffraction data, data analysis, data reduction

Availability: Free, Available for download, Freely available

Resource Name: Muscle X

Resource ID: SCR_018811

Alternate URLs: <https://sourceforge.net/projects/musclex/files/>

License: IIT License

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260912T195906+0000

Ratings and Alerts

No rating or validation information has been found for Muscle X.

No alerts have been found for Muscle X.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Madhurapantula RS, et al. (2026) MuscleX-DI: an integrated data analysis package for X-ray scanning diffraction imaging experiments. Journal of synchrotron radiation, 33(Pt 1), 246.

Rhodehamel M, et al. (2025) ATP directly modulates thick filament structure and function in porcine myocardium. Biophysical journal, 124(15), 2553.

Jiratrakanvong J, et al. (2024) MuscleX: data analysis software for fiber diffraction patterns from muscle. Journal of synchrotron radiation, 31(Pt 5), 1401.

Ma W, et al. (2023) Myosin in autoinhibited off state(s), stabilized by mavacamten, can be recruited via inotropic effectors. bioRxiv : the preprint server for biology.

Ma W, et al. (2020) Myosin dynamics during relaxation in mouse soleus muscle and modulation by 2'-deoxy-ATP. The Journal of physiology, 598(22), 5165.