

Resource Summary Report

Generated by [RRID](#) on Aug 13, 2026

IonWizard

RRID:SCR_021764

Type: Tool

Proper Citation

IonWizard (RRID:SCR_021764)

Resource Information

URL: <https://www.ionoptix.com/products/software/ionwizard-core-and-analysis/>

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Description: Software tool to perform rapid fluorescence and morphometric real time, synchronous data acquisition with IonOptix systems, as well as polynomial fitting and analysis for myocyte research. Features include data trace averaging and filtering, composite images, and transient analysis. Integrates presentation of fluorescence traces and images, analog voltages, and cell length data under intuitive interface. Analyzes raw data by performing ratio, ion, or linear calibration calculations.

Synonyms: IonOptix IonWizard

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

Keywords: IONOPTIX LLC, polynomial fitting, analysis for myocyte research, data trace averaging and filtering, fluorescence, morphometry

Availability: Restricted

Resource Name: IonWizard

Resource ID: SCR_021764

Record Creation Time: 20220129T080357+0000

Record Last Update: 20260813T055237+0000

Ratings and Alerts

No rating or validation information has been found for IonWizard.

No alerts have been found for IonWizard.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Fan C, et al. (2025) PIEZO1 gain-of-function mutation drives cardiomyopathy by disrupting myocardial lipid homeostasis besides iron overload. Science advances, 11(46), eady9242.

Norton CE, et al. (2024) Advanced age and female sex protect cerebral arteries from mitochondrial depolarization and apoptosis during acute oxidative stress. Aging cell, e14110.

Germani S, et al. (2024) SEPN1-related myopathy depends on the oxidoreductase ERO1A and is druggable with the chemical chaperone TUDCA. Cell reports. Medicine, 5(3), 101439.

Hawey C, et al. (2023) Measuring Single-Cell Calcium Dynamics Using a Myofilament-Localized Optical Biosensor in hiPSC-CMs Derived from DCM Patients. Cells, 12(21).

Bugg D, et al. (2022) MBNL1 drives dynamic transitions between fibroblasts and myofibroblasts in cardiac wound healing. Cell stem cell, 29(3), 419.

Jacobsen NL, et al. (2022) Myofibre injury induces capillary disruption and regeneration of disorganized microvascular networks. The Journal of physiology, 600(1), 41.

Foinquinos A, et al. (2020) Preclinical development of a miR-132 inhibitor for heart failure treatment. Nature communications, 11(1), 633.

Kim TH, et al. (2016) Bio-inspired Hybrid Carbon Nanotube Muscles. Scientific reports, 6, 26687.