

Resource Summary Report

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Protofilament Bending Models

RRID:SCR_023062

Type: Tool

Proper Citation

Protofilament Bending Models (RRID:SCR_023062)

Resource Information

URL: <https://github.com/protofilamentdude/Protofilament-Bending-Models>

Proper Citation: Protofilament Bending Models (RRID:SCR_023062)

Description: Code is written to be run with Matlab version r2020b or higher. Model accepts wave assay pulse amplitude data, and simultaneously solves and fits protofilament deflection models to deduce fundamental biophysical properties of microtubule protofilaments.

Resource Type: software resource, source code

Defining Citation: [DOI:10.7554/eLife.83225](https://doi.org/10.7554/eLife.83225)

Keywords: Matlab, protofilament, microtubule, strain energy, GTP hydrolysis

Funding: NIGMS R35GM134842

Availability: Free, Available for download, Freely available

Resource Name: Protofilament Bending Models

Resource ID: SCR_023062

Record Creation Time: 20221224T050212+0000

Record Last Update: 20260731T043141+0000

Ratings and Alerts

No rating or validation information has been found for Protofilament Bending Models .

No alerts have been found for Protofilament Bending Models .

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 [PRECISE-TBI](#) .

Jiang H, et al. (2025) DCAF7 recruits USP2 to facilitate hepatocellular carcinoma progression by suppressing clockophagy-induced ferroptosis. Cell death & disease, 16(1), 654.