

Resource Summary Report

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Hitachi: 8100 Transmission Electron Microscope

RRID:SCR_020012

Type: Tool

Proper Citation

Hitachi: 8100 Transmission Electron Microscope (RRID:SCR_020012)

Resource Information

URL: <https://www.depts.ttu.edu/casm/includes/Instruments/8100SOP-1.php>

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Description: Hitachi H-8100 TEM is a research grade scanning/transmission electron microscope (STEM) with analytical and high resolution imaging capabilities. Systematic theoretical instruction combined with practical hands-on training is the best way to thoroughly understand the utility and capabilities of this complex and delicate instrument. These instructions are meant only as a guide to the basic, daily alignments and operations of the H-8100, i.e. general imaging and diffraction. It is by no means a comprehensive guide to all operations of the microscope including ultra-high resolution imaging, SEM, EDX, cryo, and the various diffraction techniques. These advanced, specialized techniques will be dealt with on an as-need basis after mastery of the basic operations has been demonstrated.

Resource Type: instrument resource

Keywords: Hitachi, Transmission Electron Microscope, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: Hitachi: 8100 Transmission Electron Microscope

Resource ID: SCR_020012

Alternate IDs: Model_Number_8100

Record Creation Time: 20220129T080348+0000

Record Last Update: 20260808T190134+0000

Ratings and Alerts

No rating or validation information has been found for Hitachi: 8100 Transmission Electron Microscope.

No alerts have been found for Hitachi: 8100 Transmission Electron Microscope.

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](#) .

Cheng Y, et al. (2024) Nicotinamide mononucleotide alleviates seizures via modulating SIRT1-PGC-1?? mediated mitochondrial fusion and fission. Journal of neurochemistry.