

Resource Summary Report

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Penn Electron Microscopy Resource Laboratory

RRID:SCR_010010

Type: Tool

Proper Citation

Penn Electron Microscopy Resource Laboratory (RRID:SCR_010010)

Resource Information

URL: <http://eagle-i.itmat.upenn.edu/i/00000138-9b9e-1bb6-9cd7-d7e280000000>

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Description: Core facility that provides the following services: Biological specimen sample preparation for transmission electron microscopy, Phenotypic characterization and ultrastructural analysis of biological specimens, Consultation for transmission electron microscopy experiments, usage, and data presentation, Transmission electron microscopy image construction tomography service, Training in transmission electron microscope operation, Scanning electron microscopy service, Transmission electron microscope access. Structural organization underlies nearly all cellular, molecular and biochemical processes in biological systems. The Electron Microscopy Resource Laboratory (EMRL) at Penn is dedicated to analysis of biological samples by electron microscopy (EM). The primary goal of the EMRL is to promote biomedical research by offering high quality EM imaging services at a low cost. With a team of experienced professional staff and state-of-the-art imaging equipment, the EMRL offers users a full spectrum of both transmission EM and scanning EM services. These services include: specimen preparation (including fixation, embedding, and sectioning of cells and tissues or preparation of non-cellular materials), operation of equipment, data acquisition, data interpretation, and free instruction on all aspects of EM analysis. We also offer free assistance on the preparation of manuscript and grant applications that incorporate various forms of EM analysis. For most users, the Core will perform a complete analysis from sample preparation through collection of data, most often with the user present during data collection. More experienced users can perform the work themselves, with the Core providing guidance and assistance as needed. The Core staff and affiliated Scientific Advisory Committee members are always available for consulting on the morphological aspects of a project, and the Core staff is willing to custom-design services to fit any investigator's needs.

Resource Type: access service resource, service resource, core facility

Keywords: cryosectioning, immunogold labeling, fixation, transmission electron microscopy, tissue embedding, tissue sectioning, staining, polymerization, cell fixation, single particle analysis, electron tomography, tissue fixation, sample preparation for assay, biospecimen preparation, data analysis, data visualization, collecting specimen from organism, image visualization and analysis, scanning electron microscopy

Funding:

Resource Name: Penn Electron Microscopy Resource Laboratory

Resource ID: SCR_010010

Alternate IDs: nlx_156477

Record Creation Time: 20220129T080256+0000

Record Last Update: 20250418T055231+0000

Ratings and Alerts

No rating or validation information has been found for Penn Electron Microscopy Resource Laboratory.

No alerts have been found for Penn Electron Microscopy Resource Laboratory.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.