

Resource Summary Report

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Forsyth Institute Micro Computed Tomography Core Facility

RRID:SCR_021180

Type: Tool

Proper Citation

Forsyth Institute Micro Computed Tomography Core Facility (RRID:SCR_021180)

Resource Information

URL: <https://www.forsyth.org/research/services/>

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Description: Core offers micro 3D X-ray imaging of small samples in high resolution and provides images and quantitative analyses of internal structures of ex vivo samples without any destructive procedures. Scanco CT40 system allows for visualization, measurement, and quantification of the structure of mineralized specimens. Contrast reagents permit visualization of soft tissue structures such as blood vessels. System creates 3D model from stack of 2D X-ray images taken around single axis of rotation. High-resolution scanner can capture detail at resolution of 6 to 32 microns. Non-destructive nature of this technology allows investigators to carry out complementary analyses of the same sample. There are two dedicated workstations for analyzing microCT data, the SCANCO analysis software or the Amira software package with XImagePAQ extension.

Abbreviations: uCT

Synonyms: Forsyth-MicroCT Core

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

Keywords: USEDit, micro 3D X-ray imaging, ex vivo samples, internal structures, mineralized specimens structure, ABRF, ABRF

Resource Name: Forsyth Institute Micro Computed Tomography Core Facility

Resource ID: SCR_021180

Alternate IDs: ABRF_1173

Alternate URLs: <https://coremarketplace.org/?FacilityID=1173>

Record Creation Time: 20220129T080354+0000

Record Last Update: 20260731T043053+0000

Ratings and Alerts

No rating or validation information has been found for Forsyth Institute Micro Computed Tomography Core Facility.

No alerts have been found for Forsyth Institute Micro Computed Tomography Core Facility.

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 [kravitz2](#) .

Depalle B, et al. (2023) Rapid post-eruptive maturation of porcine enamel. Frontiers in physiology, 14, 1099645.