

Resource Summary Report

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University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility

RRID:SCR_019300

Type: Tool

Proper Citation

University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility
(RRID:SCR_019300)

Resource Information

URL: <https://www.colorado.edu/geologicalsciences/resources/research-facilities/earth-systems-stable-isotope-laboratory>

Proper Citation: University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility (RRID:SCR_019300)

Description: Designed to measure relative abundance of stable isotopes of light elements and molecules.

Abbreviations: CUBES-SIL

Synonyms: Colorado University at Boulder Earth Systems Stable Isotope Lab Core Facility, Earth Systems Stable Isotope Lab (CUBES-SIL), University of Colorado at Boulder Earth Systems Stable Isotope Lab Core Facility

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

Keywords: USEDit, ABRF, measure relative abundance of stable isotopes, light elements and molecules

Resource Name: University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility

Resource ID: SCR_019300

Alternate IDs: ABRF_1099

Alternate URLs: <https://coremarketplace.org/?FacilityID=1099>

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260905T133419+0000

Ratings and Alerts

No rating or validation information has been found for University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility.

No alerts have been found for University of Colorado Boulder Earth Systems Stable Isotope Lab Core Facility.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Kashyap S, et al. (2026) Microbial growth rates captured using Raman-SIP reveal a highly active subsurface biosphere fueled by serpentinization. *Nature communications*, 17(1).

Caro TA, et al. (2025) Dissolved inorganic carbon supports robust anabolism and methanogenesis in actively serpentinizing rocks. *bioRxiv : the preprint server for biology*.

Harris CM, et al. (2025) Lipid hydrogen isotope compositions primarily reflect growth water in the model archaeon *Sulfolobus acidocaldarius*. *Applied and environmental microbiology*, 91(4), e0198324.

Maloney AE, et al. (2024) Large enrichments in fatty acid 2H/1H ratios distinguish respiration from aerobic fermentation in yeast *Saccharomyces cerevisiae*. *Proceedings of the National Academy of Sciences of the United States of America*, 121(20), e2310771121.

Halamka TA, et al. (2023) Production of diverse brGDGTs by *Acidobacterium Solibacter usitatus* in response to temperature, pH, and O₂ provides a culturing perspective on brGDGT proxies and biosynthesis. *Geobiology*, 21(1), 102.

Caro TA, et al. (2023) Hydrogen stable isotope probing of lipids demonstrates slow rates of microbial growth in soil. *Proceedings of the National Academy of Sciences of the United States of America*, 120(16), e2211625120.

Dahlin LR, et al. (2023) Heterologous expression of formate dehydrogenase enables photoformatotrophy in the emerging model microalga, *Picochlorum renovum*. *Frontiers in bioengineering and biotechnology*, 11, 1162745.