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- The ARC Stockroom carries biological & molecular research products from 15 vendors.
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- For all your oligo and sanger sequencing needs: Utilize Integrated DNA Technologies (IDT) and Azenta services with stockroom portal accounts to receive deeper discounts and free shipping.

Contact us for special orders and inquiries:



arc_stockroom@colostate.edu



Our online catalog and information:
research.colostate.edu/bio/freezer-program/



ANALYTICAL RESOURCES CORE
COLORADO STATE UNIVERSITY

VISION

We aim to foster a collaborative and inclusive learning and service environment where researchers can obtain valuable data and insights, driving scientific progress and new discoveries.

Follow us on social media:



@ARCatCSU



Analytical Resources Core at CSU



arc_csu



arc_csu@colostate.edu



Scan the QR code or follow the link to learn more:

research.colostate.edu/arc/



VICE PRESIDENT FOR RESEARCH
COLORADO STATE UNIVERSITY



COLORADO STATE UNIVERSITY

ANALYTICAL RESOURCES CORE



Enabling cutting-edge STEM research and development programs by providing access to analytical instrumentation, expert guidance, research training and services to CSU and the broader community.

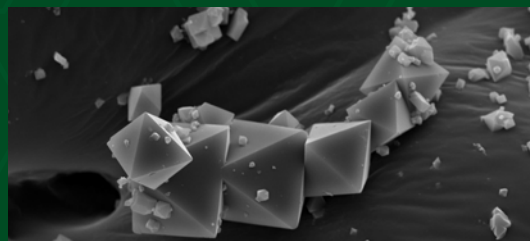
research.colostate.edu/arc/

APPLICATIONS & EDUCATION



MOLECULAR ANALYSIS

- purity analysis
- black carbon quantification
- spin/radical characterization
- small molecule structure elucidation
- macromolecular characterization (polymers, glycans, glycolipids, proteins, oligonucleotides, etc.)
- chromatographic separations and fraction collection of mixtures
- chemistry of dissolved natural organic matter
- metabolic isotope tracing and metabolic flux
- analysis of metals and non-metals, isotopes and metals speciation
- time-resolved fluorescence measurements
- excited state lifetime determination
- optical analysis in the infra-red, visible, or ultraviolet light range



ELECTRON MICROSCOPY

- atomic-level imaging of structure and morphology
- nanoscale elemental detection and mapping of surfaces and thin specimens
- electron diffraction and strain analysis
- semi-automated data collection and electron tomography
- biological and soft material preparation: fixation, staining, and ultra-thin sectioning
- room temperature single particle analysis



MATERIALS ANALYSIS

- nanoparticle size and charge
- colloidal dispersion stability
- polymer morphology
- stress and strain of thin films
- purity, composition and thermal stability of materials
- variable temperature magnetic and electrical properties
- quantitative and qualitative phase analysis



OMICS

- metabolomics and lipidomics: quantitative and qualitative profiling of small molecules, metabolites, and biomarkers in wastewater, soils, biological tissues and fluids, etc.
- proteomic analyses including:
 - post-translational modifications
 - protein identification
 - peptide sequencing
 - protein crosslinking for structure analysis
 - metaproteomics (community and microbiome proteomics)
 - top-down proteomics
 - glycoproteomics
 - bacterial identification of isolates
- adductomics
- ionomics (elemental composition of organisms)



EDUCATION & TRAINING

The ARC offers students and researchers valuable exposure to high-end instrumentation and data collection through hands-on training, self-operation of instruments, method development assistance, specialized workshops, and student and postdoctoral training fellowships. We assist in academic coursework and offer broad technology education through the ARC monthly seminar series.



Don't see what you need on this list? Contact us at arc_csu@colostate.edu for inquiries and consultations.