

Resource Summary Report

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University of Louisville Biophysical Core Facility

RRID:SCR_026277

Type: Tool

Proper Citation

University of Louisville Biophysical Core Facility (RRID:SCR_026277)

Resource Information

URL: <https://centers.louisville.edu/brown-cancer-center/core-facilities/biophysical-core>

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Description: Biophysical Core Facility supports structural biology studies focused on characterization of biophysical properties of biomolecules and their interactions with binding partners or novel drug candidates. Offers range of biophysical techniques for initial screening of hit/lead compound binding as well as rigorous characterization of the thermodynamic and hydrodynamic properties of various biological macromolecules (most commonly proteins and nucleic acids), macromolecular association reactions, and ligand-macromolecule interactions. Biophysical techniques include differential scanning fluorimetry, microscale thermophoresis, isothermal titration calorimetry, differential scanning calorimetry, circular dichroism spectroscopy, fluorescence spectroscopy, absorbance spectroscopy and analytical ultracentrifugation.

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

Keywords: ABRF, characterization of biophysical properties, screening of hit/lead compound binding, thermodynamic properties, hydrodynamic properties, biological macromolecules, proteins, nucleic acids, macromolecular association reactions, ligand-macromolecule interactions, differential scanning fluorimetry, microscale thermophoresis, isothermal titration calorimetry, differential scanning calorimetry, circular dichroism spectroscopy, fluorescence spectroscopy, absorbance spectroscopy, analytical ultracentrifugation

Resource Name: University of Louisville Biophysical Core Facility

Resource ID: SCR_026277

Alternate IDs: ABRF_3018

Alternate URLs: <https://coremarketplace.org/?FacilityID=3018&citation=1>

Old URLs: <https://louisville.edu/medicine/cancer-research/cores-and-facilities-1/biophysics>

Record Creation Time: 20250115T053334+0000

Record Last Update: 20260912T200501+0000

Ratings and Alerts

No rating or validation information has been found for University of Louisville Biophysical Core Facility.

No alerts have been found for University of Louisville Biophysical 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 [SPARC SAWG](#) .

Tarvestad-Laise K, et al. (2026) A c-Cbl/Cbl-b antagonist inhibits EGFR ubiquitylation and sustains EGFR phosphorylation to enhance corneal re-epithelialization. Proceedings of the National Academy of Sciences of the United States of America, 123(7), e2518857123.