Generated by <u>NIF</u> on May 19, 2025

University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility

RRID:SCR_022890 Type: Tool

Proper Citation

University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility (RRID:SCR_022890)

Resource Information

URL: http://www.sylvester.org/BBSR

Proper Citation: University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility (RRID:SCR_022890)

Description: Provides expertise and analysis support for basic and translational research, clinical trials, and both interventional and non-interventional population-based studies. Offers support for data and large scale data analysis projects. Services include support for data analysis and interpretation; software access; algorithm and database development; support of scientific review, monitoring, and oversight of clinical and population science research protocols; consultation, training, educational workshops, lectures and seminars. Biostatistics services include support for statistical design of clinical trials, population studies, and laboratory experiments; sample size determination and justification; statistical analysis plans; statistical support for data and safety monitoring of clinical trials; data analysis and interpretation; prediction model development using machine learning techniques; and database design and data management. Bioinformatics services include project design for high-throughput genomics studies; support for next generation sequencing data analysis (including whole transcriptome profiling; targeted region gene expression and single-cell RNA-seq; epigenomics profiling such as ChIP-seq and ATAC-seq; and exome or whole genome sequencing analysis); pathway analysis; microbiome data analysis; functional metagenomics analysis; drug sensitivity and genomic association analysis; genomic data integration using public databases; integration analysis of genomic data across multiple platforms; genomic data visualization; and bioinformatics methods, analysis pipeline, software and algorithm development. BBSR services can be utilized for QA/QC, including

quality assessment of sequencing data, sample outlier detection, batch effect determination, evaluation of spike-in control methods, randomized block design, and other strategies for data normalization. T

Abbreviations: BBSR

Synonyms: University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource, Sylvester Biostatistics and Bioinformatics Shared Resource

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

Keywords: USEDit, ABRF, biostatistics, bioinformatics

Funding:

Resource Name: University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility

Resource ID: SCR_022890

Alternate IDs: ABRF_1590

Alternate URLs: https://coremarketplace.org/?FacilityID=1590&citation=1

Record Creation Time: 20221015T050158+0000

Record Last Update: 20250517T060521+0000

Ratings and Alerts

No rating or validation information has been found for University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility.

No alerts have been found for University of Miami Sylvester Comprehensive Cancer Center Biostatistics and Bioinformatics Shared Resource Core Facility.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Scala G, et al. (2024) MoNETA: MultiOmics Network Embedding for SubType Analysis. NAR genomics and bioinformatics, 6(4), Iqae141.

Ashad-Bishop KC, et al. (2023) Hyperlocal disparities in breast, cervical, and colorectal cancer screening: An ecological study of social vulnerability in Miami-Dade county. Preventive medicine reports, 35, 102371.

Anderson RT, et al. (2014) Breast cancer screening, area deprivation, and later-stage breast cancer in Appalachia: does geography matter? Health services research, 49(2), 546.