

Resource Summary Report

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Stanford University School of Medicine High Throughput Bioscience Center Core Facility

RRID:SCR_017794

Type: Tool

Proper Citation

Stanford University School of Medicine High Throughput Bioscience Center Core Facility (RRID:SCR_017794)

Resource Information

URL: <http://htbc.stanford.edu>

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Description: Core provides fully automated high throughput screening (HTS) of Compound Libraries (130,000+ compounds) for both enzyme/protein-based assays and cell-based assays, using Caliper Life Sciences Staccato system; Genomic siRNA screening with siARRAY whole human genome siRNA library from Dharmacon targeting 21,000 genes, using Agilent Bravo system; High-Content Screening using ImageXpress Micro automated fluorescent microscope with live cell, bright field, phase contrast and integrated plate handling with Thermo Catalyst CRS, and image analysis using MetaXpress software; High Throughput Molecular Biology reagents and services, including access to cDNA libraries (Human ORFeome collection, 15,000 genes) and 96 and 384-well bead clean-ups and PCR setup (Biomek FX and Agilent Bravo), and other automation steps in collaboration with SFGF; High-throughput assay development assistance with cell culture, experiment design, robotic programming and Standard Operating Procedure drafting; Screening data analysis assistance with protocols, hit determination and structure activity analyses using MDL chemical database ISIS/HOST, Plate Manager, Assay Explorer and Report Manager. Use of microplate reader detection systems, including Tecan Infinite M1000 and Infinite M1000 PRO and Molecular Devices Analyst GT for fluorescence; fluorescence polarization; time-resolved fluorescence; absorbance and luminescence (with injectors and AlphaScreen); and Flexstation II 384, for kinetic fluorescence reads to measure calcium mobilization and ion channels. Use of liquid-handling robots, including Sciclone ALH3000 (96- and 384-well pipetting), Agilent Bravo (96- and 384-well pipetting), Velocity11 VPrep (96-well pipetting), Bio-Tek plate washers/dispensers, Matrix Wellmate and Titertek/Labsystems Multidrop microplate dispensers, and Velocity11 PlateLoc plate heat sealer; Training for most of these services.

Abbreviations: HTBC

Synonyms: High Throughput Bioscience Center

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

Keywords: High, throughput, bioscience, automated, screening, compound, library, enzyme, protein, assay, human, whole, genome, cDNA, service, core

Availability: Open

Resource Name: Stanford University School of Medicine High Throughput Bioscience Center Core Facility

Resource ID: SCR_017794

Alternate IDs: SCR_023235, ABRF_2460

Alternate URLs: <https://coremarketplace.org/?FacilityID=2460>

Record Creation Time: 20220129T080337+0000

Record Last Update: 20260808T190640+0000

Ratings and Alerts

No rating or validation information has been found for Stanford University School of Medicine High Throughput Bioscience Center Core Facility.

No alerts have been found for Stanford University School of Medicine High Throughput Bioscience Center 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 [T1D](#) .

Bharat V, et al. (2023) A mitochondrial inside-out iron-calcium signal reveals drug targets for Parkinson's disease. Cell reports, 42(12), 113544.