

PARTNER PLATFORM
High Throughput Screening / Hit to lead

High throughput screening – Institut de la Vision

General information

Administrative information	
Structure	UM80 – Institut de la Vision
Address	17 rue Moreau 75012 Paris
Website	https://www.institut-vision.org/en/the-research/research-facilities/8-platforms-institute/25-high-throughput-screening.html
Manager	Marc Lechuga
Contact	Marc.lechuga@inserm.fr
Date of implementation	May 2013

Labels / quality approach	
IBiSA	No
ISO 9001 certification	No
National networks	Chembioscreen (since 2018)
International networks	No
Other	No

Team	
Number of researchers	1
Number of engineers	2
Number of technicians	0
Number of administrative staff	0
Other	-

Main achievements	
Number of screenings performed since creation	20+
Number of screenings performed per year	2 to 3
Fields of expertise / therapeutic areas	
Our <i>HTS Core Facility</i> is dedicated to the conduct of large and very large libraries (small compounds, natural compounds, cDNA, and siRNA, peptides collections) using original and highly valued biological models cell lines, primary cells, human stemcells-derived progenitors (hESC, iPSC) and/or pure biochemical assays.	

Scientific Information

Chemical Library	
Description of the collection (number of chemical molecules, natural, royalty-free products, known synthesis methods, etc)	
FDA-approved Library (royalty free for basic research purpose), royalty free pathway-specific Library, target-focused library (building and management)	
Conditioning	96 vials racks, 384-well plates
Database (structure, accessibility conditions)	Dedicated information system, csv/xls extractions on demand.
Member of the National Chemical Library	No.

Targets	
Targets for the screening service (e.g. protein targets, cell targets, etc.)	
Cell targets, protein-protein interaction, protein dosage, enzymatic activity.	
Activities (e.g. cloning, protein expression, obtaining cell lines, management and storage of lines, cell culture, etc.)	
Cell culture including cell lines, primary cells and stemcell derived progenitors, cell line establishment, cloning, banking and storage.	

High throughput screening	
Number of measurements/days (approx.)	25 000 (maximum)
Biological tests proposed (e.g. in vitro enzymatic tests, cell tests (binding tests, cell survival, image analysis, etc)	
Cell-based assays(viability, proliferation, phenotype), sub-cellular target (translocation, intra-nucleus aggregates etc.), protein-protein interaction, cytokine secretion dosage (supernatant), enzymatic activity, reporter gene.	
Technologies / Equipment (robots, automats, etc.)	
Bravo and Biocel1800 (Agilent), Spark (Tecan), Arrayscan (Thermo-electron), CQ1 confocal scanner (Yokogawa)	

Access	
Site teams	Yes
External academic teams	Yes
Private Outdoor Teams	Yes

Training courses offered
We provide training in screening project building including 1. the basics of high to medium screening approaches, 2.Raw data treatment and Refined Data analysis and 3. Establish the relevant screening cascade.