The BioPhenics High-Content Screening Platform

Application Form – HiCanScreen 2013-2014
High-Throughput Cancer Research Screening

Project # 0000 2014 *(to be entered by BFX)*

Date of application: XX/XX/2014

Project Title:

General Information:

a. Project Leaders/Unit:
Please complete

b. email address:
Please complete

c. People involved in the project (only name the person that will be directly in contact with the BFX team members)
Name/Lab status/role/email
Please complete

A SCIENTIFIC PART

I. Main Objective: Please complete

II. Addressed questions: Please complete

III. **What particular BFX resources would you need** (e.g. screening your library, your cell line, your particular assay, screening our chemical library, our siRNA library, assembling and screening a new library, …)
Please complete

IV. Project Summary (the question, present situation, the screen and afterward)
Please complete

V. Relation to Cancer *(if any)*
Please complete

Guidance for the Screening Application

Assay applications will be evaluated in terms of the following characteristics:

I. Readiness for or adaptability to HTS.

Are the assays ready to be used in micro-titre plates, such as 384-well plate ?
Please complete

Do you need a particular cell line?
Please complete

Are steps such as centrifugation, filtration and extraction included in your protocol? If yes, can they be substituted to comply with robotics handling?
Please complete

Does it involve cell treatment before fixation (e.g hormones, heat shock, etc…). If yes, please outline the time frame.
Please complete

II. Assay performance and robustness
Provide useful information on how well the assay performs in terms of reproducibility and robustness (e.g. between day-to-day experiments)
Please complete

III. Brief description of the phenotype(s) followed: *(tentative description)*
Note: Phenotypic assays measure a signal which corresponds to a complex response such as cell survival, proliferation, localization of a protein, nuclear translocation etc.
Please complete

B TECHNICAL PART

Experimental system

Screening projects includes preliminary setups linked to the miniaturization and the searched phenotype. This step is time consuming, so all the information you can provide and the setup you have made in your laboratory will impact the time spent on this step.

CELL CULTURE	Cell line		Cell line 1	Cell line 2 …	Cell line 3 …
		Name	Please complete	Please complete	Please complete
	Cell media	Please complete			
	Cell seeding *(if tested)*	Plate format	Cell density *(per well)*		
		96	Please complete		
		384	Please complete		

CHOICE OF PERTURBATORS LIBRARIES *(please check the boxes)*		Families [number of genes]		Library size *(number of 384-well plates)*
	☐ siRNA libraries	☐ GTPases [147]		2
		☐ Kinesins [51]		1
		☐ VATPases, ESCRTs, SNARES, Zinc finger, Exocyst, Golgines [154]		2
		☐ Kinases and assimilated proteins [685]		10
		☐ Reduced kinome [573]		4
		☐ User defined		N/A
	☐ Chemical libraries	☐ Yes ☐ No	Choice of the libraries to be screened under request.	

TRANSFECTION CONDITIONS *(if any)*	Lipofectant name	Please complete	
	Volume / concentration	Please complete	

TREATMENT *(according to protocol steps currently used)*	☐ **Starving**	☐ Yes ☐ No		
	☐ **Induction**	Molecule name	Please complete	Please complete
		Concentration (M)	Please complete	Please complete
		Incubation time (min/h)	Please complete	Please complete

LABELLING	Protocol	Fixation conditions	Please complete	
		Permeabilisation conditions	Please complete	
	Phenotypes to follow	Dye 1	DAPI	-
		Antibody / dye 2	Please complete	Comments
		Antibody / dye 3	Please complete	Comments
		Antibody / dye 4	Please complete	Comments

IV. Possible Controls *(positive and negative phenotypic controls)*
Note: The selection of controls requires careful consideration and optimization as early as in assay development, as this substantially influences the quality and relevance of data and resulting knowledge.
Please complete

V. Results of the preliminary experiments
Please provide images with detailed experimental conditions as well as a summary of results previously obtained (ie time-course, dose-titration, etc..)

Please complete

VI. If you have further information that could help us to optimize your screen, please share it with us:
Please complete

B General Conditions

The Project Leader agrees to provide for review a draft of any proposed publication pertaining to the Project prior to its first submission for publication.
The contribution of each Party (notably the supplying of the Material or the use of the BioPhenics platform) shall be noted in all publications or presentations by co-authorship negotiated in good faith between the parties.

Paris, XX/XX/201X

BioPhenics Responsable Scientist	Project Leader
Name : Signature:	Name: Signature: