

Qualifier	Ontology source	example value(s)	Ontology value	Comment
Source	MGED	name, address, etc.	http://mged.sourceforge.net/ontologies/MGEDontology.php#Contact	
Project description				
project description:biological effect/process	Mammalian Phenotype (MP)	Cell survival	MP:0005372	different layers of description possible, either a global effect is measured, or a specific one. A chemoresistance assay is also a cell survival screen, as not chemoresistance is measured but viability
	GO	Cell adhesion	GO:0007155	
		MAPK signaling	GO:0000165	
		Apoptosis	GO:0006915	
		Cell proliferation	GO:0008283	
classification	OBOL ? (http://www.fruitfly.org/~cjm/obol/)	activation		boolean expression
		inhibition		boolean expression
project description:measured effect	GO	Metabolism	GO:0008152, or one or more of its children	turnover of marker (e.g. WST or MTT) by specific reductase
		phosphorylation of Erk1/2 MAPK	GO:0006468 or its children	fluorescence signal of phospho-Erk specific antibody as a measure
		caspase-3 activation	GO:0006919 or its children	
		DNA replication	GO:0006260 or its children	BrdU incorporation
Cell line				
cellLine:name	ATCC	NIH3T3	CRL-1658	
		HEK293	CRL-1573	
	BRENDA Tissue / Enzyme	primary cells	BTO:0001413	
cellLine:species	NCBI	human	Taxonomy ID: 9606	
cellLine:age	Phenotype and Trait (PATO)	age	PATO:0000011	
cellLine:devStage	BRENDA Tissue / Enzyme	embryo	BTO:0000379	
cellLine:tissue	OBO cell type ontology	fibroblast	fibroblast (CL:0000057)	
		epithelial	CL:0000066 or its children	
	BRENDA Tissue / Enzyme	adenocarcinoma	BTO:0000604	
		kidney	BTO:0000671	
cellLine:modifications	GO, OBI (?)	immortalized	GO:0020021	could be e.g. transformed with EBV
Cell culture material				
cell culture array:type	OBI ?	96well		could be included in OBI
		24well		

MIACA

ontologies and nomenclatures

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		eppendorf tube		
		glass slide		
cell culture medium	??	DMEM		
cell culture medium:supplement	Chemical Entities ob biological interest (for small molecules)	Streptomycine	CHEBI:17076	
Treatments				
perturbatorType	Molecular Interactions (MI)	siRNA	MI:0610	
	MI ?	expression construct		
		small molecule		
		time		
		temperature shift		
treatment types	OBI ?	seeding and cell growth, washing		
physicochemical values	SI units	temperature	degree Celsius	
commonly used buffers & solutions	OBI ?	PBS, washing buffers		
data acquisition				
instrument	OBI	FACS		
		Mass spectrometer	OBI_49	