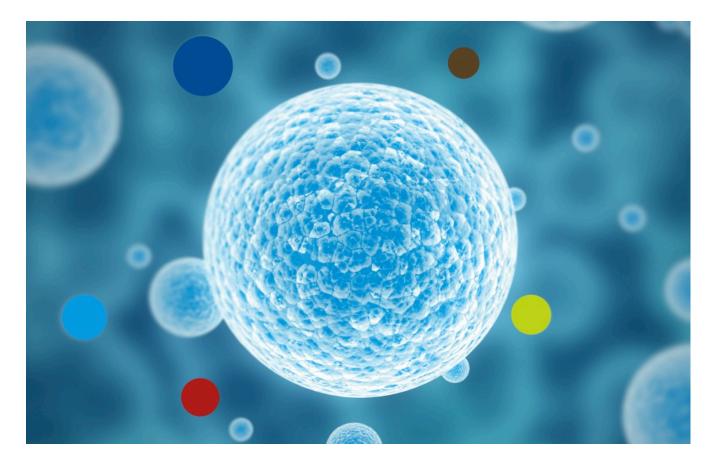




EBiSC Catalogue User Guide

European Bank for induced pluripotent Stem Cells





https://cells.ebisc.org & http://ebisc.org/

The EBiSC - European Bank for induced pluripotent Stem Cells project has received support from the Innovative Medicines Initiative Joint Undertaking under grant agreement n° 115582, resources of which are composed of a financial contribution from the European Union's Seventh Framework Programme (FP7/2007-2013) and EFPIA companies' in kind contribution. www.imi.europa.eu



The EBiSC Cell line catalogue lists all EBiSC cell lines available for purchase. The lines are displayed in a table that presents a general overview of the collection and supports sorting by different parameters such as name, disease, donor age and sex, and cell type).

Accessing the Catalogue

You can access the catalogue via the main EBiSC website (<u>http://ebisc.org/</u>) or directly (<u>https://cells.ebisc.org/</u>).



EBIS	Cell Line Catalogue	h	. or using the attps://cells.e		tk: Log in
PSC Search cell	line catalogu	le			424 cell lines
Disease	Primary cell	type • Donor sex	• Donor a	ge	•
Disease	Primary cell	type • Donor sex	Donor a	ge	•
Disease Name	Primary cell	type Donor sex Genetic modification	Donor a Donor sex	ge Donor age	Primary cell type
			10.8-3		Primary cell type fibroblast of dermis
Name	Donor disease status		Donor sex	Donor age	
Name EDi015-A	Donor disease status unipolar depression		Donor sex male	Donor age	fibroblast of dermis
Name EDi015-A EDi018-A	Donor disease status unipolar depression bipolar disorder		Donor sex male female	Donor age	fibroblast of dermis fibroblast



About the Catalogue

The front page displays the current status of the catalogue and includes all lines that are available for purchase. They are displayed in a searchable table that provides cell line summary information: the disease state, genetic modification, primary cell type and donor sex and age. The name column links to a separate individual page for each cell line.

BiS	C Cell Line Catalogue	For customers For deposito	rs About EBiSC	ava	nber of ilable cell lines he catalogue
PSC	line catalogue)			424 cell line
Search cell li Disease	nes Primary cell type	e • Donor sex	Summary table sortable colum		
Name	Donor disease status	Genetic modification	Donor sex	Donor age	Primary cell type
EDi015-A	unipolar depression	1	male	65-69	fibroblast of dermis
EDi018-A	bipolar disorder	1	female		fibroblast
EDi019-C	normal	1	female		fibroblast of dermis
LUBi001-B	Frontotemporal dementia	1	male	65-69	fibroblast
RCi001-A	Fouthromelalgia	1	male		erythroblast
RCi002-A			female		erythroblast
UOXFi003-C	Links to cell line pages		male	45-49	fibroblast of dermis
UOXFi005-B	P*800		male	65-69	fibroblast of dermis
UOXFi005-C	normal	1	male	65-69	fibroblast of dermis
UOXFi007-A	Parkinson's disease	1	female	70-74	fibroblast of dermis
UOXFi008-C	Parkinson's disease	1	female	55-59	fibroblast of dermis
UOXFi009-A	Parkinson's disease	1	female	60-64	fibroblast of dermis
UOXFi009-C	Parkinson's disease	1	female	60-64	fibroblast of dermis
UNEWi022-B	age-related macular degeneration	1	male	85-89	fibroblast of dermis
UNEWi024-A	age-related macular degeneration	1	male	75-79	fibroblast of dermis
UNEWi024-C	age-related macular degeneration	1	male	75-79	fibroblast of dermis
UNEWi025-B	age-related macular degeneration	1	female	70-74	fibroblast of dermis



Search and filtering

You can use keyword search and faceted filtering to narrow the number of displayed cell lines from the catalogue.

Filter Search

You can use multiple filters and values within filters when looking for suitable cell lines.

PSC	line catalogu	Ie	Search box	5 cell lines
earch cell li	nes			
lisease	Primary cell t	ype • Donor sex	• Donor age	Clear all filters
ame VTSI/150-A VTSI/163-A VTSI/162-A VTSI/165-A	Selected items Dardet-Diedi syndrome Bardet-Biedl syndrome Bardet-Biedl syndrome Bardet-Biedl syndrome	<pre>// etic modification // / / / / / / / / / / / / / / / / /</pre>	20-24 (3) 25-29 (4) Donor 30-34 (3) female female female female female 50-54 (1) male 55-59 (2)	Primary cell type fibroblast of dermis fibroblast of dermis last of dermis Select one or more items from list
port from the l eement n° 115	opean Bank for induced pluripotent ! nnovative Medicines Initiative Joint L 582, resources of which are compos on's Seventh Framework Programm	Indertaking under grant ed of financial contribution from	efpia Reserved Presented	

Currently available filters are: Disease, Primary Cell type, Donor sex and Donor age. The numbers next to items inside filters display how many lines in the catalogue match the selection criteria. Each time you select values for a filter they appear below the filter box. The selection items in all other filters are refreshed according to your current selection and availability in the catalogue.

You can remove selected filter items by clicking on the x icon in front of each item. Or you can click on "Clear all filters" to remove all selected items.



Keyword search

The search box above the filters enables broader searching. You can find lines based on other descriptive information associated with them, beyond what is displayed in the summary table.

The number of found / available cell lines that match your selected criteria always appears in the upper right hand side of the page.

Example search

Anne is looking for lines associated with Parkinson's disease and lines with mutations in SCNA.

First, Anne looks at the disease dropdown filter. She sees Parkinson's disease and that there are 28 lines associated with that disease available in the EBiSC catalogue. Anne clicks on the Parkinson's disease check box and this filters the results in the summary table to 28 lines that are associated with this disease.

Cell Line Catalogue For custom	ers For depositors About EBiSC		Log i
iPSC line catalogue			424 cell lines
Disease Primary cell type	Donor sex 🗸 Donor age	•	
Alzheimers disease (10) Aplastic anemia (2)	Progressive supranuclear palsy (4) Prolonged QT interval (3)	onor age	Primary cell type
Bardet-Biedl syndrome (22) Brugada syndrome (3)	Retinitis pigmentosa (5) Spinocerebellar ataxia type 3 (4)	D-44	peripheral blood mononuclear cell
Catecholaminergic polymorphic ventricular tachycardia (2)	age-related macular degeneration (12)	D-44	peripheral blood mononuclear cell
Corticobasal degeneration (4)	amyotrophic lateral sclerosis (4)	5-29	peripheral blood mononuclear cell
DMD (5)	anemia (1)	5-29	peripheral blood mononuclear cell
Dravet syndrome (1)	anti-social behavior (2)	D-34	peripheral blood mononuclear cell
Erythromelalgia (4) Facioscapulohumeral dystrophy (4) Facioscapulohumeral dystrophy (4) Facioscapulohumeral dystrophy (4)	bipolar disorder (8)	D-84	fibroblast of dermis
Familial long QT syndrome (9)	myopathy (6)	5-89	fibroblast of dermis
Huntington disease (2)	myotonic dystrophy type 1 (1)	0-74	fibroblast of dermis
Pain agnosia (2)	normal (269)	D-64	fibroblast of dermis
Parkinson's disease (28)	unipolar depression (5)	0-74	fibroblast of dermis
UOXFi001-D Parkinson's disease	/ fema	ale 70-74	fibroblast of dermis



Anne is particularly interested in mutations in the SCNA gene. The information is not visible in the summary table, so Anne decides to use the search box and types SCNA. The table is further filtered to lines that have this gene name in their description.

EBIS	Jearch		About EBISC		Log ir
iPSC I	ine atalogu	е			5 cell lines
SCNA					
			Deperage	- O Clear	all filters
Disease	 Primary cell type 	pe 👻 Donor sex	 Donor age 	•	
Disease Parkinson's d		pe Donor sex	Donor age		
	isease	cell line page	Donor age		
	isease		Donor sex	Donor age	Primary cell type
O Parkinson's d	Link to c				Primary cell type fibroblast of dermis
Parkinson's d Name	Donor dis		Donor sex	Donor age	
Parkinson's d Name EDi001-A	Donor dis Parkinson's	cell line page	Donor sex female	Donor age 50-54	fibroblast of dermis
 Parkinson's d Name EDi001-A EDi001-A-3 	Donor dis Parkinson's Par on's disease	cell line page / Parkinson's disease	Donor sex female female	Donor age 50-54 50-54	fibroblast of dermis fibroblast of dermis
Parkinson's d Name EDi001-A EDi001-A-3 EDi001-A-4	Donor dis Parkinson's Parkinson's disease Parkinson's disease	Cell line page / Parkinson's disease Parkinson's disease	Donor sex female female female	Donor age 50-54 50-54 50-54	fibroblast of dermis fibroblast of dermis CL_0002551

There are five lines with the SCNA gene in their description. This is actually a cell line and four genetically modified subclones of this line. This can been seen from the cell line name. All lines have the stem EDi001-A followed by a different number, 1, 2, 3 and 4.

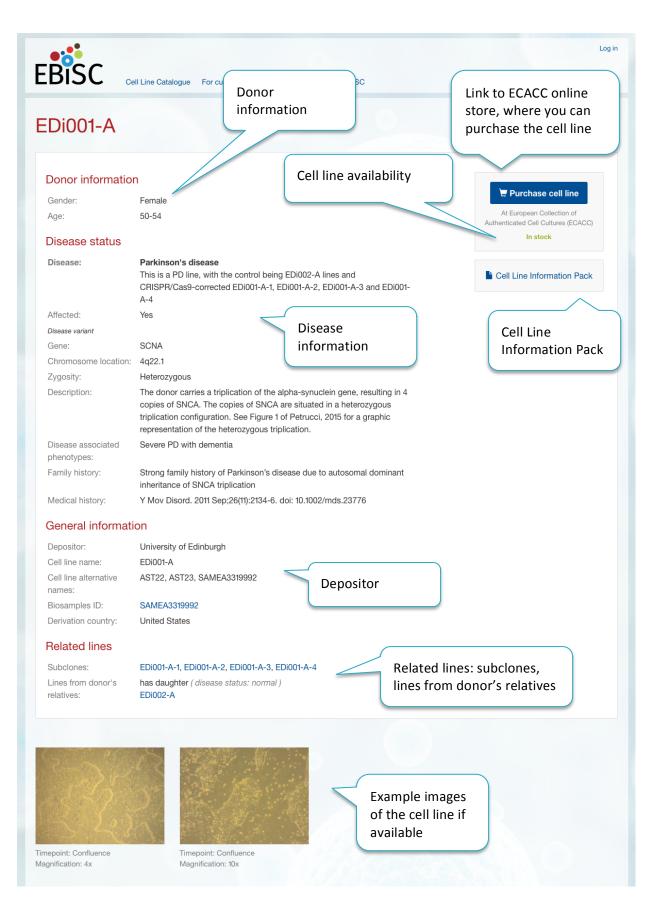
After finding lines of interest, Anne can now view detailed information on each cell line by clicking on their names.

Cell line page

Each cell line page displays:

- General information about a cell line, including donor and disease information, depositor and reference publications
- Link to the ECACC catalogue where you can purchase the cell line
- Link to the Cell line information pack
- Images of the cell line if available







Further down the page you can find additional information about the cell line and how it was created. The depositor provided this information when registering the line in <u>hPSCreg</u> (http://hpscreg.eu).

This information is displayed in a single box with five tabs: derivation, culture conditions, characterisation, genotyping and genetic modification (only for gene-edited lines).

The derivation tab displays details of how the line was reprogrammed and when the source tissue was collected.

Derivation Culture conditions Ch	haracterization Genotyping Menu tabs
Derivation	
Primary cell type:	Fibroblast of dermis
Primary cell developmental stage:	Adult
Reprogramming method	
Vector type:	Integrating
Vector:	Virus
Virus type:	Retrovirus
Have the reprogramming vectors been silenced:	Unknown
Derivation	
Xeno free conditions:	no
Derived under gmp:	no
Available as clinical grade:	no

The culture conditions tab gives information about how the cell line has been cultured.





The characterization tab gives details of what sterility, morphology and marker screening has been carried out on a particular cell line.

haracterization				/larker (expre	ession	
Analysis of Undifferentiated Cells							
Marker expression		Expressed	Immunostaining	RT-PCR	FACS	Enzymatic Assay	Expression Profiles
	SSEA-1	- No			~		
	TRA 1-60	🗸 Yes			1		
	POU5F1 (OCT-4)	🗸 Yes			~		
	SSEA-4	🗸 Yes			~		
Differentiation potency							
Ectoderm	Ectoderm						
	🗸 In vitro spontar	neous differentia	tion Marker	Expressed	ł		
			HES5	🗸 Yes			
			NeuroD1	🗸 Yes			
			PAX6	🗸 Yes		Differe	ntiation
						potenc	сy
Endoderm	Endoderm						
	🗸 In vitro spontar	neous differentia	tion Marker	Expressed			
			CXCR4	🗸 Yes			
			GATA6	🗸 Yes			
			SOX17	🗸 Yes			
Mesoderm	Mesoderm						
	< In vitro spontar	neous differentia	tion Marker	Expressed	н		
			NCAM1	🗸 Yes			
			PECAM1	🗸 Yes			
			1 EG/ WH				



The genotyping tab contains information about any karyotyping and genotyping that has been conducted on the line.

Derivation Culture conditions	Characterization Genotyping
Genotyping	
Karyotyping	
Passage numbe	r: P23
Cell line karyotype	e: 46,XX
Karyotyping method	I: G-Banding
Genotyping	
STR/Fingerprinting	: A 16 allele profile has been recorded and data is available upon request, after cell line purchase.

CLIP – Cell line Information Pack

BiSC	Cell Line Catalogue For customers For dep	positors About EBISC	Log in
EDi001-A			
Donor informat	ion	Cell Line	
Gender:	Female	Information Pack	🔄 Purchase cell line
Age:	50-54	linormation rack	At European Collection of Authenticated Cell Cultures (ECACC)
Disease status			In stock
Disease:	Parkinson's disease This is a PD line, with the control being CRISPR/Cas9-corrected EDi001-A-1, ED A-4		Cell Line Information Pack
Affected:	Yes		

The Cell Line Information Pack contains additional information about each cell line, including any associated third party obligations or license provisions. You can find the link to the Cell Line Information Pack at the top right side of the page.



Cell Line Information Pack (CLIP)

Cell line name	EDi001-A
ECACC Catalogue No.	66540058



Purpose

The purpose of this Cell Line Information Pack (CLIP) is to communicate cell line specific information to potential users of the cell line, and to confirm that a User has received it upon the purchase of an EBISC cell line.

Information

The CLIP may provide a variety of types of information related to an individual cell line. Of particular importance are Third Party Obligations (TPOs), which are ethical or legal obligations of a Depositor related to the use of the cell line. TPOs may impose ethical or legal limitations on the ability of a User to use the cell line, or require steps to be taken before it can be used. TPOs are likely to be:

- · Obligations under license to an intellectual property rights (patent) holder, or
- Restrictions on use imposed by the donor of the primary tissue from which the cell line was made.

Third Party Obligations: donor consent provisions

None

Signature

provisions
ned by IPS Academia Japan which will affect the permitted use is distributed. A licence may be required from IPS Academia ses.
and acknowledge the information contained in this CLIP.
Position
i

Cell Line Information Pack PDF

Date

Cell line purchase

If you decide to purchase any of the lines in the EBiSC catalogue, you can do so by clicking on the "Purchase cell line" button on the right side of the page. This will lead you to the European Collection of Authenticated Cell Cultures (ECACC) website where you can buy the chosen line.



Donor information

Gender:	Female
Age:	35-39
Ethnicity:	Caucasian, German
Donor karyotype:	46,XX



For details on how to complete your purchase please visit the comprehensive ECACC guide on how to order cell lines (http://www.phe-culturecollections.org.uk/orderinginfo/index.aspx).