EBiSC Catalogue User Guide
European Bank for induced pluripotent Stem Cells


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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 ([http://ebisc.org/](http://ebisc.org/)) or directly ([https://cells.ebisc.org/](https://cells.ebisc.org/)).
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.
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.

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.
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.

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
EDi001-A

**Donor information**
- **Gender**: Female
- **Age**: 50-54

**Disease status**
- **Disease**: Parkinson's disease
- **Affected**: Yes
- **Disease variant**: SCNA
- **Chromosome location**: 4q22.1
- **Zygosity**: Heterozygous
- **Description**: The donor carries a triplication of the alpha-synuclein gene, resulting in 4 copies of SNCA. The copies of SNCA are situated in a heterozygous triplication configuration. See Figure 1 of Petruci, 2015 for a graphic representation of the heterozygous triplication.
- **Disease associated phenotypes**: Severe PD with dementia
- **Family history**: Strong family history of Parkinson's disease due to autosomal dominant inheritance of SNCA triplication
- **Medical history**: Y Mov. Disord. 2011 Sep;26(17):2344-6, doi: 10.1002/mds.23776

**General information**
- **Depositor**: University of Edinburgh
- **Cell line name**: EDi001-A
- **Cell line alternative names**: AST22, AST23, SAMEA3319992
- **Biosamples ID**: SAMEA3319992
- **Derivation country**: United States

**Related lines**
- **Subclones**: EDi001-A-1, EDi001-A-2, EDi001-A-3, EDi001-A-4
- **Lines from donor’s relatives**: has daughter (disease status: normal) EDi002-A

**Link to ECACC online store**, where you can purchase the cell line

**Cell line availability**

**Cell Line Information Pack**

**Example images of the cell line if available**

**Depositor**

**Related lines: subclones, lines from donor’s relatives**
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 hPSCreg (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.

**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.

<table>
<thead>
<tr>
<th>Marker</th>
<th>Expressed</th>
<th>Immunostaining</th>
<th>RT-QOR</th>
<th>FACS</th>
<th>Enzymatic Assay</th>
<th>Expression Profiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSEA-1</td>
<td>No</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>TRA 1-60</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>POU5F1 (OCT-4)</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSEA-4</td>
<td>Yes</td>
<td></td>
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</tr>
</tbody>
</table>

Differentiation potency

**Ectoderm:** Ectoderm
- In vitro spontaneous differentiation

<table>
<thead>
<tr>
<th>Marker</th>
<th>Expressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>HESS</td>
<td>Yes</td>
</tr>
<tr>
<td>NeuroD</td>
<td>Yes</td>
</tr>
<tr>
<td>PAX6</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Endoderm:** Endoderm
- In vitro spontaneous differentiation

<table>
<thead>
<tr>
<th>Marker</th>
<th>Expressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CXCR4</td>
<td>Yes</td>
</tr>
<tr>
<td>GATA6</td>
<td>Yes</td>
</tr>
<tr>
<td>SOX17</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Mesoderm:** Mesoderm
- In vitro spontaneous differentiation

<table>
<thead>
<tr>
<th>Marker</th>
<th>Expressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCAM1</td>
<td>Yes</td>
</tr>
<tr>
<td>PECA1</td>
<td>Yes</td>
</tr>
<tr>
<td>VIM</td>
<td>Yes</td>
</tr>
</tbody>
</table>
The genotyping tab contains information about any karyotyping and genotyping that has been conducted on the line.

**Karyotyping**
- Passage number: P23
- Cell line karyotype: 46,XX
- Karyotyping method: G-Banding

**Genotyping**
- STR/Fingerprinting: A 16 allele profile has been recorded and data is available upon request, after cell line purchase.

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**CLIP – Cell line Information Pack**

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 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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Gender</td>
<td>Female</td>
</tr>
<tr>
<td>Age</td>
<td>35-39</td>
</tr>
<tr>
<td>Ethnicity</td>
<td>Caucasian; German</td>
</tr>
<tr>
<td>Donor karyotype</td>
<td>46,XX</td>
</tr>
</tbody>
</table>

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).