

## The CIRM hPSC Initiative Requests 3<sup>rd</sup> Party Stem Cell Lines

The CIRM hPSC Repository at the Coriell Institute will accept up to 300 human pluripotent stem cell lines (hPSCs) from outside laboratories for storage and distribution to researchers. hPSCs can include human Embryonic Stem Cells (hESCs) or human induced Pluripotent Stem Cells (hiPSCs). Submitted lines can be expanded, at no cost to the investigator, for storage and distribution in the Repository: <http://catalog.coriell.org/CIRM>

Investigators interested in submitting hPSCs need to submit a *CIRM hPSC Repository Submission Form* that will include sections on:

- PI & institution where hPSC line was derived
- Funding source(s) related to line derivation
- Tissue donor information and consent documentation
- Reprogramming method (for hiPSCs)
- hPSC cell culturing information
- hPSC characterization information

Criteria for the CIRM hPSC Repository are listed below. If interested in submitting hPSC lines, please email [CIRMform@coriell.org](mailto:CIRMform@coriell.org) to request the submission form.

All submissions sent by October 12, 2016 will be considered and no selection will be made before that date. After October 12, 2016, any remaining spaces will be reviewed and assigned/decided on a rolling basis until January 15, 2017.

In the selection process, additional information may be requested. California-based investigators will be favored for selection, but we encourage any investigator worldwide to submit a form with lines of broad interest. Investigators with successful hPSC submissions and orders will also be able to benefit from enhanced access to core Repository lines.

### CIRM hPSC Repository Criteria

*Minimal acceptance criteria for hPSC submissions to CIRM hPSC Repository*

	<b>Criterion</b>	<b>Accepted Value(s)</b>
1	<b>Growth matrix</b>	- Matrigel-based cultures preferred* ( $\geq 5$ passages without MEFs) - MEF-based cultures may be considered for up to a 10% of final accepted submissions based on relative biological relevance and availability of additional QC parameters
2	<b>Cell culture medium</b>	- TeSR- and E8-based cultures preferred
3	<b>Passage number</b>	- p8-p20 inclusive
4	<b>Type of vials</b>	- Standard plastic cryovials only
5	<b>Number of vials (mandatory)</b>	- A minimum of 2 vials is required - All vials need to be from the same freezing lot and passage number.
6	<b>Number of viable cells per submission (mandatory)</b>	- A minimum total of $2 \times 10^6$ viable hPS cells per submission is required (e.g. if vials have $5 \times 10^5$ hPS cells, 4 vials would be required). - All vials need to be from the same freezing lot and passage number.
7	<b>Mycoplasma test (mandatory)</b>	- Negative (provide results and indicate specific test/assay used)
8	<b>Sterility test (mandatory)</b>	- Negative (provide results and indicate specific test/assay used)
9	<b>Karyotype</b>	- Normal karyotype result required (provide result and indicate if G-banding and/or Array) - Abnormal karyotype result may be considered with proof that matches karyotype of tissue donor - Indicate passage number at which karyotyping was performed
10	<b>Pluripotent markers</b>	- Positive pluripotent state confirmed by at least 2 of the following assays (provide results): a) Surface Antigen analysis/immunostaining b) Score Card or Pluritest c) Embryoid body formation/gene expression d) Teratoma assay
11	<b>Pathogen test (mandatory only for hiPSCs derived from blood)</b>	- HIV, HBV and HCV negative (provide results and indicate specific test/assay used)
12	<b>Morphology</b>	- Confirm that normal stem cell [colony] morphology was observed for specific freezing lot/passage number proposed to be submitted - As reference, avoid submissions with more than 10% spontaneous differentiation