SnapShot Reporting practices for publishing results with human PSCs and tissue stem cells

ISSCR Task Force for Basic Research Standards¹

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Metadata			Characterization of pluripotency and the undifferent	ntiated state (PS	Cs only)
Describe the source of the cells/cell line including:	Reference section	Page reported in manuscript	Describe the following:	Reference section	Page report in manuscri
Name (or names)/alias of line	1.4; 5.1.2		Assay methodology	2.1; 2.2; 5.2;	
Unique ID/registry # (name of registry)	1.4			Appendix 4	
Source (vendor and catalog number if obtained commercially); biopsy site and derivation details (if derived)	4.1.1; 5.1		Quantitative results along with statistical analysis	2.1; 2.2; 5.2; Appendix 4	
			Timing of analysis in relation to key experiments reported	2.1; 2.2; 5.2	
Additional metadata as applicable (e.g., sex, ethnicity, disease information, known mutations, etc.)	4.1.2; 5.4.1		Confirmation of cell type (TSCs only)		
Culture details			Describe the characterization of the following:	Reference section	Page report in manuscri
Describe methods used for isolation, maintenance, and	Reference	Page reported	Starting population(s) with recognized markers and methods	4.1; 4.3.1; 5.4.1	
preservation of the cells including:	section	in manuscript	Phenotype of expanded cells	4.1; 4.3.1; 5.4.1	
Passaging/dissociation/split ratio	3.2; 4.2.2; 5.1.1		Demonstration of lineage potential	4.1; 4.3.1	
Freezing and thawing	5.1.1		Molecular characterization		
Culture reagents used (e.g., media, matrices, growth factors, etc.) with vendor and catalog number	4.2.2; 5.1.1			Reference	Page report
The passage number of the cryopreserved/characterized Master Cell Bank or Working Cell Bank stocks used, and the number of subsequent passages prior to and during experimentation	1.2; 3.2.2; 5.1.1		Describe the following:	section	in manuscri
			Confirmation of disease mutation (if applicable)	4.3.4	
			Confirmation of genetic modification (if applicable)	4.4.3; 4.4.4	
Basic characterization			Experimental details		
Describe the assessment of the following including when they were performed relative to the experiments:	Reference section	Page reported in manuscript	Describe the following:	Reference section	Page report
Authentication	1.3; Appendix 1		Information regarding the experimental unit or sample type for each experiment (e.g. individuals, cell lines,	4.4.4; 5.4.2	
Mycoplasma	1.6; Appendix 1		clones, tissues, organoids, devices, batches, cells, etc.)		
Sterility (bacteriostasis/fungistasis)	1.6; Appendix 3		Number of replicates (biological/technical)	4.2.2; 5.4.2	
Genomic characterization			Data practices		
Describe the genomic characterization including:	Reference section	Page reported in manuscript	Information on:	Reference section	Page report in manuscri
Methodology used including sufficient detail to allow an	3.1; 5.3;		Statistical methods used	4.4.1; 5.4.2	
assessment of sensitivity (e.g. the number of cells analyzed/resolution/depth of analysis)	Appendix 5		Inclusion of the data and annotation code/software used for phenotype classification for computationally derived classifiers (if applicable)	5.4.4	
Timing of analysis in relation to key experiments reported	3.2		Verification that FAIR (https://www.go-fair.org/fair-principles) and CARE (https://www.gida-global.org/care) data management principles were followed	5.4.4	

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STEMCELL Technologies, a company of Scientists Helping Scientists, is a passionate advocate for standardizing human pluripotent stem cell (hPSC) data reporting and quality control measures, limiting experimental variability, and ensuring that relevant and reproducible findings are shared.

The ISSCR's Standards for Human Stem Cell Use in Research document and this companion checklist represent critical steps toward these goals. By adhering to the reporting practices outlined in this wallchart and the principles that underlie them, you will help to improve quality and reproducibility for the field as a whole. Learn more about important cell quality attributes and find out how you can assess and maintain high-quality hPSCs by exploring the resources below.

Understanding the Standards

Learn more about the principles discussed within the standards document and how STEMCELL can help you apply them to your research with this curated collection of resources. From webinars, to interviews, to articles, you will find the information you need to achieve higher quality results and more standardized practices. www.stemcell.com/ISSCR-Standards

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