

ASIA

疾患特異的iPS細胞株の情報は無いが、細胞バンクとして活動している施設。

イスラエル

Stem Cell Core Unit (SCCU), Weizmann Institute of Science

<http://bioservices.weizmann.ac.il/stemcell>

ワイスマン研究所の科学生物サービス部にあり、幹細胞やiPS細胞の研究活動支援や技術開発・教育に参加。

提供幹細胞としては、mESCとhESCを配布。mESCはゼラチンコート容器での配布も可能。

マウスESCとしては、R1とR11のmESCラインを有する。

ヒトESCとしては、ウィスコンシン大学のWiCell研究所から入手(NIHが承認)した。

hESC株H9(WA09)およびH1(WA01)を有している

フィーダー細胞としては、放射線で不活化したMEFとHFF(iMEFs, iHFFs)を配布。

MEFはDRマウスとICRマウス由来。

ESCの遺伝子改変操作や、トランスジェニック・ノックアウトマウスからのESC作製も受託している
提供細胞からのiPSC作製も受託している。

CellCelectorというロボットは、高精度の画像処理を有し、

培養容器から単一細胞・単一コロニーをピックアップする。

インド

National Centre for Cell Science (NCCS)

<http://www.nccs.res.in>

1986年3月にインド中西部ブネーのブネー大学内に設立された、

動物細胞株やハイブリドーマの収集のための国立機関。

細胞生物学、がん生物学、感染症、免疫学、分子生物学、プロテオミクス、ゲノミクス、糖尿病
および組織工学に関する基礎研究やセミナーを行っている。

提供細胞の詳細については、下のアドレスに問い合わせる。

curator@nccs.res.in

patole@nccs.res.in

milindpatole@hotmail.com

韓国

Korean Cell Line Bank (KCLB)

<http://cellbank.snu.ac.kr/>

韓国細胞株研究財団(KCLRF)の支援で設立され、国立ソウル大学医科大学のガン研究所内に:

細胞株の確立・品質管理・収集・保存・提供や細胞株に関する教育・セミナー・会議を開催。

提供細胞株の詳細リストは、ID取得後可能。ガン細胞株が主です。

シンガポール

Singapore Stem Cell Consortium

<http://www.sccc.a-star.edu.sg/>

登録が必要

ATCC

<http://www.atcc.org/en/Products/Cells and Microorganisms/Stem Cells.aspx>

種々の細胞を供給しているATCCは、幹細胞としてmESC、hESC、hMSC、hiPSCを供給。
疾患特異的株を抽出した。

HUMAN IPS (PLURIPOTENT)

ATCC-DYP0250 Human Induced Pluripotent Stem Cells (ATCC® ACS-1004™)

ATCC® Number: ACS-1004™

Organism: *Homo sapiens, human*

Cell Type: *Episomal Plasmid Reprogrammed Hips*

Tissue: *Derived From Foreskin Fibroblast*

Disease *Cystic Fibrosis*

For-Profit: \$1,500.00 Non-Profit: \$1,000.00

ATCC-DYP0530 Human Induced Pluripotent Stem Cells (ATCC® ACS-1014™)

ATCC® Number: ACS-1014™

Organism: *Homo sapiens, human*

Cell Type: *Plasmid Reprogrammed Hips*

Tissue: *Derived From Dermal Fibroblast*

Disease *Parkinson's Disease, Asthma, Depression*

For-Profit: \$1,500.00 Non-Profit: \$1,000.00

ATCC-DYP0730 Human Induced Pluripotent Stem Cells (ATCC® ACS-1003™)

ATCC® Number: ACS-1003™

Organism: *Homo sapiens, human*

Cell Type: *Episomal Plasmid Reprogrammed Hips*

Tissue: *Derived From Foreskin Fibroblasts*

Disease *Down Syndrome*

For-Profit: \$1,500.00 Non-Profit: \$1,000.00

ATCC-DYS0530 Human Induced Pluripotent Stem Cells (ATCC® ACS-1013™)

ATCC® Number: ACS-1013™

Organism: *Homo sapiens, human*

Cell Type: *Adult*

Tissue: *Derived From Dermal Fibroblast*

Disease *Parkinson's Disease, Asthma, Depression*

For-Profit: \$1,500.00 Non-Profit: \$1,000.00

ATCC-DYR0530 Human Induced Pluripotent Stem Cells (ATCC® ACS-1012™)

ATCC® Number: ACS-1012™

Organism: *Homo sapiens, human*

Cell Type: *Adult*

Tissue: *Derived From Dermal Fibroblast*

Disease *Parkinson's Disease, Asthma, Depression*

For-Profit: \$1,500.00 Non-Profit: \$1,000.00

HUMAN MESENCHYMAL STEM CELLS

BT142 mut/- (ATCC® ACS-1018™)

ATCC® Number: ACS-1018™

Organism: *Homo sapiens, human*

Cell Type: *Neural*

Tissue: *Brain*

Disease *Oligoastrocytoma Grade iii*

For-Profit: \$525.00 Non-Profit: \$525.00

Coriell Cell Repositories

<http://ccr.coriell.org/>

NIHなどからの資金で、細胞の樹立・品質管理・保管。

iPS細胞株を受け入れたり、内部で開発したiPS細胞株を提供するために、SCBを2008年に設立。

Stem Cell Biobank (SCB)

<http://ccr.coriell.org/Sections/Collections/GSCB/Default.aspx>

2008年に設立され、hiPS細胞、mES細胞を提供。

品質管理の項目は、株分野に依る; NIGMS iPSCは、表面発現抗原、胚様体形成、多分化遺伝子発現アッセイで、NINDS iPSCは、表面発現抗原、胚様体形成で、NIAのmESは、表面発現抗原、胚様体形成、導入遺伝子の誘導。

NIGMS (National Institutes of General Medical Sciences) iPSCs

健康人および遺伝子疾患患者から作製したhiPS細胞
表面抗原、EB形成能、遺伝子発現の情報が添付。

ヒト患者iPS細胞

Catalog ID	Diagnosis	Parent Line	Transformant	Gender	Age	Race	Biopsy Source	Affected Status	Gene(s)	Mutation(s)	Family and Associated Specimens	Certificate of Analysis	Protocol
GM23226	DIABETES MELLITUS, JUVENILE-ONSET INSULIN-DEPENDENT; IDDM	GM02416	Reprogrammed (Retroviral)	Female	42 YR	American Indian	Skin	Yes			383	CofA PDF	Protocol PDF
GM23404	FRIEDREICH ATAXIA 1; FRDA	GM03816	Reprogrammed (Retroviral)	Female	36 YR	Caucasian	Skin	Yes	FXN FXN	(GAA) _n EXPANSION (GAA) _n EXPANSION	594	CofA PDF	Protocol PDF
GM23913	FRIEDREICH ATAXIA 1; FRDA	GM04078	Reprogrammed (Retroviral)	Male	30 YR	Caucasian	Skin	Yes	FXN FXN	(GAA) _n EXPANSION (GAA) _n EXPANSION	594	CofA PDF	Protocol PDF
GM23225	HUNTINGTON DISEASE; HD	GM04281	Reprogrammed (Retroviral)	Female	20 YR	Caucasian	Skin	Yes	HD	(CAG) _n EXPANSION	690	CofA PDF	Protocol PDF
GM23230	MUSCULAR DYSTROPHY, BECKER TYPE; BMD	GM04569	Reprogrammed (Retroviral)	Male	38 YR	Caucasian	Skin	Yes			591	CofA PDF	Protocol PDF
GM23262	MUSCULAR DYSTROPHY, BECKER TYPE; BMD	GM04981	Reprogrammed (Retroviral)	Male	6 YR	Caucasian	Skin	Yes	DMD	EX45-53DEL	2975	CofA PDF	Protocol PDF
GM23717	MUSCULAR DYSTROPHY, CONGENITAL MEROSIN-DEFICIENT, 1A; MDC1A	GM23311	Reprogrammed (Episomal)	Female	3 YR	Caucasian	Skin	Yes	LAMA2 LAMA2	2048_2050delAG ARG2578TER	3006	CofA PDF	Protocol PDF
GM23298	RETT SYNDROME; RTT	GM11270	Reprogrammed (Retroviral)	Female	8 YR	Caucasian	Skin	Yes	MECP2	ARG306CYS	3002	CofA PDF	Protocol PDF
GM23760	SCHIZOPHRENIA; SCZD	GM01792	Reprogrammed (Lentiviral)	Male	26 YR	Caucasian	Skin	Yes			119	CofA PDF	Protocol PDF
GM23761	SCHIZOPHRENIA; SCZD	GM01835	Reprogrammed (Lentiviral)	Female	27 YR	Caucasian	Skin	Yes			119	CofA PDF	Protocol PDF
GM23762	SCHIZOPHRENIA; SCZD	GM02497	Reprogrammed (Lentiviral)	Male	23 YR	Caucasian	Skin	Yes			176	CofA PDF	Protocol PDF
GM23764	SCHIZOPHRENIA; SCZD	GM02503	Reprogrammed (Lentiviral)	Female	27 YR	Caucasian	Skin	Yes			176	CofA PDF	Protocol PDF
GM23232	SEVERE COMBINED IMMUNODEFICIENCY, AUTOSOMAL RECESSIVE, T CELL-NEGATIVE, B CELL-NEGATIVE, NK CELL-NEGATIVE, DUE TO ADENOSINE DEAMINASE DEFICIENCY	GM01390	Reprogrammed (Retroviral)	Male	3 MO	Caucasian	Skin	Yes	ADA	GLY216ARG	2974	CofA PDF	Protocol PDF
GM23240	SPINAL MUSCULAR ATROPHY I; SMA1	GM03813	Reprogrammed (Lentiviral)	Male	3 YR	Caucasian	Skin	Yes	SMN1 SMN1	EX7-8DEL EX7-8DEL	553	CofA PDF	Protocol PDF
GM23241	SPINAL MUSCULAR ATROPHY I; SMA1	GM03814	Reprogrammed (Lentiviral)	Female		Caucasian	Skin	No	SMN1	EX7-8DEL	553	CofA PDF	Protocol PDF

GM24468	SPINAL MUSCULAR ATROPHY I; SMA1	GM03813	Reprogrammed (Episomal)	Male	3 YR	Caucasian	Skin	Yes	SMN1 SMN1	EX7-8DEL EX7-8DEL	553	CofA PDF	Protocol PDF
GM24474	SPINAL MUSCULAR ATROPHY I; SMA1	GM03814	Reprogrammed (Episomal)	Female		Caucasian	Skin	No	SMN1	EX7-8DEL	553	CofA PDF	Protocol PDF
GM23937	TAY-SACHS DISEASE; TSD	GM11853	Reprogrammed (Episomal)	Male	1 YR	Caucasian	Skin	Yes			1448	CofA PDF	Protocol PDF

NINDS (National Institute of Neurological Disorders and Stroke) iPSCs

患者繊維芽細胞より作製。
表面抗原、EB形成能の情報が添付。
筋萎縮性側索硬化症

Catalog ID	Diagnosis	Cell Type	Cell Subtype	Transformant	Gene(s)	Mutation(s)	Gender	Affected	Family and Associated Specimens	Certificate of Analysis	Protocol
ND35658	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ASN139LYS	Male	Yes		CofA PDF	Protocol PDF
ND35659	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ALA4VAL	Female	At Risk		CofA PDF	Protocol PDF
ND35660	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ASP90ALA	Female	Yes	NINDS5020	CofA PDF	Protocol PDF
ND35661	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ILE113THR	Male	Yes	NINDS5022	CofA PDF	Protocol PDF
ND35662	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	GLU100GLY	Male	Yes	NINDS5025	CofA PDF	Protocol PDF
ND35663	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	FUS	c.1566G>A (p.R522R)	Female	Yes	NINDS1046	CofA PDF	Protocol PDF
ND35664	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ASP90ALA	Female	Yes	NINDS5027	CofA PDF	Protocol PDF
ND35666	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ASP91ALA	Male	Yes	NINDS5023	CofA PDF	Protocol PDF
ND35668	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	GLU49LYS	Female	Yes	NINDS5625	CofA PDF	Protocol PDF
ND35669	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	FIG4	27C>T	Female	Yes	NINDS5644	CofA PDF	Protocol PDF
ND35670	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	VAL148GLY	Male	Yes		CofA PDF	Protocol PDF
ND35671	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ALA4VAL	Female	Yes		CofA PDF	Protocol PDF
ND35673	UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	ALA4VAL	Female	At Risk	NINDS5624	CofA PDF	Protocol PDF
ND39032	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	LEU144PRO	Male	Yes		CofA PDF	Protocol PDF
ND39034	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	FUS	c.1566G>A (p.R522R)	Male	Yes	NINDS5397	CofA PDF	Protocol PDF
ND39036	UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SOD1	GLY86ARG	Male	At Risk		CofA PDF	Protocol PDF
ND39037	AMYOTROPHIC LATERAL SCLEROSIS 1; ALS1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)			Male	Yes		CofA PDF	Protocol PDF

前頭側頭型認知症

Catalog ID	Diagnosis	Cell Type	Cell Subtype	Transformant	Gene(s)	Mutation(s)	Gender	Affected	Family and Associated Specimens	Certificate of Analysis	Protocol
ND41869	FRONTOTEMPORAL DEMENTIA	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)			Male		NINDS5745	CofA PDF	Protocol PDF
ND41870	FRONTOTEMPORAL DEMENTIA	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	GRN	SER116XAA ND41870 and ND41872 are sister clones***	Male		NINDS5881	CofA PDF	Protocol PDF
ND41872	FRONTOTEMPORAL DEMENTIA	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	GRN	SER116XAA ND41870 and ND41872 are sister clones***	Male		NINDS5881	CofA PDF	Protocol PDF

ハンチントン氏病

Catalog ID	Diagnosis	Cell Type	Cell Subtype	Transformant	Gene(s)	Mutation(s)	Gender	Affected	Family and Associated Specimens	Certificate of Analysis	Protocol
ND36997	ASYMPTOMATIC; HD GENE-NEGATIVE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Lentiviral)	HD	CAG:33 Confirmed*	Female	At Risk	110	CofA PDF	Protocol PDF
ND36998	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Lentiviral)	HD	CAG:60	Female	Yes	110	CofA PDF	Protocol PDF
ND36999	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Lentiviral)	HD	CAG:180	Male	Yes	NINDS4461	CofA PDF	Protocol PDF
ND38545	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:45	Female	Yes	690	CofA PDF	Protocol PDF
ND38546	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:45	Female	Yes	690	CofA PDF	Protocol PDF
ND38547	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:44	Male	Yes	690	CofA PDF	Protocol PDF
ND38548	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:42 Confirmed*	Female	Yes	690	CofA PDF	Protocol PDF
ND38549	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:29	Female	No	690	CofA PDF	Protocol PDF
ND38551	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:50 IPSC DNA CAG:51**	Male	Yes	691	CofA PDF	Protocol PDF
ND38552	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:49	Female	Yes	691	CofA PDF	Protocol PDF
ND38554	ASYMPTOMATIC; HD GENE-NEGATIVE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:17 Confirmed*	Female	No	691	CofA PDF	Protocol PDF
ND38555	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:17 Confirmed*	Female	No	691	CofA PDF	Protocol PDF
ND41113	ASYMPTOMATIC; HD GENE-NEGATIVE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Episomal)	HD	CAG:33	Female	At Risk	110	CofA PDF	Protocol PDF
ND41114	ASYMPTOMATIC; HD GENE-NEGATIVE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Episomal)	SMN1	EX7-8DEL	Female	No	553	CofA PDF	Protocol PDF
ND41656	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Episomal)	HD	CAG: 57 ND41656 and ND41657 are sister clones***	Female	Yes	NINDS4250	CofA PDF	Protocol PDF
ND41657	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Episomal)	HD	CAG: 57 ND41656 and ND41657 are sister clones***	Female	Yes	NINDS4250	CofA PDF	Protocol PDF

* Original HD CAG repeat length value reported by NINDS Repository submitter was verified using IPSC DNA.

** Original HD CAG repeat length value reported by NINDS Repository submitter differs from value obtained using IPSC DNA; both values are reported.

パーキンソン氏病

Catalog ID	Diagnosis	Cell Type	Cell Subtype	Transformant	Gene(s)	Mutation(s)	Gender	Affected	Family and Associated Specimens	Certificate of Analysis	Protocol
ND34391	PARKINSON DISEASE, FAMILIAL, TYPE 1; PARK1	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	SNCA	TRIPPLICATION	Female	Yes	NINDS0020	CofA PDF	Protocol PDF
ND34393	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	ARG1441CYS	Male	At Risk	NINDS3316	CofA PDF	Protocol PDF
						ND34393 and ND34394 are sister clones***					
ND34394	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	ARG1441CYS	Male	At Risk	NINDS3316	CofA PDF	Protocol PDF
						ND34393 and ND34394 are sister clones***					
ND35367	PARKINSON DISEASE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	GLY2019SER	Male	Yes	NINDS3313	CofA PDF	Protocol PDF
ND35371	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	ARG1441CYS	Female	At Risk	NINDS3316	CofA PDF	Protocol PDF
ND38477	PARKINSON DISEASE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Lentiviral)	PARK2 PARK2	EX3-4DEL 1-BP DEL, 255A	Male	Yes	NINDS0729	CofA PDF	Protocol PDF
ND39896	PARKINSON DISEASE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)			Male	Yes		CofA PDF	Protocol PDF
ND40018	PARKINSON DISEASE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	GLY2019SER Homozygous	Female	Yes	NINDS5514	CofA PDF	Protocol PDF
ND40019	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	GLY2019SER	Male	At Risk	NINDS5514	CofA PDF	Protocol PDF
						Heterozygous					
						ND40019 and ND40020 are sister clones***					
ND40020	ASYMPTOMATIC OR UNDIAGNOSED AND GENETICALLY RELATED TO AN AFFECTED INDIVIDUAL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	LRRK2	GLY2019SER	Male	At Risk	NINDS5514	CofA PDF	Protocol PDF
						Heterozygous					
						ND40019 and ND40020 are sister clones***					

*** Other products including iPSC sub-clones derived from the same subject are available.

- iPSC line ND39896 was submitted to the NINDS Repository by the New York Stem Cell Foundation.

コントロール

Catalog ID	Diagnosis	Cell Type	Cell Subtype	Transformant	Gene(s)	Mutation(s)	Gender	Affected	Family and Associated Specimens	Certificate of Analysis	Protocol
ND38549	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:29	Female	No	690	CofA PDF	Protocol PDF
ND38554	ASYMPTOMATIC; HD GENE-NEGATIVE	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:17	Female	No	691	CofA PDF	Protocol PDF
						Confirmed*					
ND38555	HUNTINGTON DISEASE; HD	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)	HD	CAG:17	Female	No	691	CofA PDF	Protocol PDF
						Confirmed*					
ND41865	POPULATION/CONVENIENCE CONTROL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)			Male	No	NINDS5744	CofA PDF	Protocol PDF
ND41866	POPULATION/CONVENIENCE CONTROL	Stem cell	Induced pluripotent stem cell	Reprogrammed (Retroviral)			Male	No	NINDS5744	CofA PDF	Protocol PDF

[解凍 作業手順書]

Day:		Executioner:	
Cell name:			
Passage no:	P	P	
	準備試薬リスト	Variance	
Medium	培地Lot:		
	量:whah用: ml 播種用: ml		
	FGF-2濃度: <input type="checkbox"/> 4ng/ml <input type="checkbox"/> 5ng/ml <input type="checkbox"/> 10ng/mL		
	FGF-2量: <input type="text"/> μL in <input type="text"/> mlMedium		
	Defrost	Variance	
開始時間:	Vial 本	Photo - / +	
	Med 分注し、37° 恒温水槽で加温		
	加温したwash培地をクリーンベンチに入れる		
	N2タンクから液体窒素容器にストックのvialを取り出す		
	Vialをアルコールで拭いた後、クリーンベンチに入れる		
	加温したwash用Medを先太トランスファーピペットで約600ulほど入れ込む		
	穏やかにピPETTINGで融解させ半融解したら素早くwash培地に回収する		
	遠心 rpm 分間		
	上清除去		
	細胞数: 多い やや多い 適切 やや少ない 少ない		
	軽く弾いて細胞ペレットをほぐす		
	終了時間:		播種用の培地を ml細胞ペレットに加える
			フラスコorプレートへ mlずつ()播種する
			顕微鏡で細胞の様子を見る
細胞状態: 良い 適切 悪い コロニーの大きさ: 大きい 適切 小さい			

[培地交換 作業手順書]

培地交換 作業チェックシート										
日時	Executioner : 上田									
細胞名	インキュベーターNo.	資10%	前回作業者: 上田				プロジェクト名:			
	MMT-MEF:	GF-1	B8	IGR	SNL	EG(2102EP) INTERA2				
	hESC:	KhES-1	KhES-3	H1	H9	HES3	HES4			
	hiPSC:	201B7	201B2							
細胞情報		Tic	Squeaky	Dotcom	Toe	Lollipop	UTA-1	ITASF2-2	IPS(Foreskin)-1	
	Passage No	P-(27+10+11+5+5)		前回継代日:	4月 14日	今回の継代日は:	予定通り	予定より早い	予定より遅い	
細胞の状態	未分化コロニーがほとんど	分化した細胞がやや多い	分化した細胞が多い	熟していないコロニーが多い	よくわからないが真	コンフルエント	サブコンフルエント	細胞が予定より少ない	細胞がほとんど死んでいる	細胞多すぎた
写真	なし	x40 ()	x100 ()	x200 ()	ファイル格納場所					
機器	37°C湯浴			CO2インキュベーター						
マテリアルチェック	培地	京大培地 Lot: KS	EB (-2Me) Lot: EB(-)	mTeSR Lot:	Variance					
	成育培地	Lot: Sip	EB+2ME Lot: EB(+)	DME/FBS Lot: EG						
	hESF8	Lot: E8130419/22(ESF-)	Condition Med Lot: CMC	FGF-2 Lot:	ESF(-) 4/18作					
	hESF6	Lot: E6	Condition Med Lot: CMB	activin Lot:						
	hESF-FX	Lot: FX	Condition Med Lot: CMI	PDGF Lot:						
	hESF-Diff	Lot: Edif	PBS Lot:	ROCK inhibitor Lot:						
必要量	培地	135ml								
用事添加	FGF-2	10ug/ml	x(135)microL	最終濃度:	10 ng/mL	x()microL	最終濃度:	g/mL		
	Activin	10ug/ml	x(27)microL	最終濃度:	2ng/mL	x()microL	最終濃度:	g/mL		
	PDGF	10ng/ml	x()microL	最終濃度:	ng/mL	x()microL	最終濃度:	g/mL		
	Rock inhibitor		x()microL	最終濃度:	ng/mL	x()microL	最終濃度:	g/mL		
必要量	mL		37°C湯浴		分					
対象	5cmフラスコ 6枚	75cm フラスコ	60mm Dish	90mm Dish	Variance					
	4well plat 24well	12well plate	24well plate							
培地吸引	全量吸引	5mL残し	mL残し	2mL残して	mL残して吸引せず					
培地添加	4, 6	mL/each								
	インキュベーターNo.	資10%								

[継代 作業手順書]

細胞継代 作業チェックシート									
日時	Executioner : 上田					プロジェクト名: Distribution			
細胞名	MMT-MEF:	CF-1	B6	ICR	SNL	H9	HES3	HES4	EC(2102EP) NTERA2
	hESC:	KHES-1	KHES-3	H1					
	hPSC:	201B7	201B2						
	Tic	Squeaky	Dotcom	Toe	Lollipop	UTA-1	UTASF2-2	PS(ForeSkin)-1	
Passage No	P-(27+10+11+2)		前回継代日:	15日	予定通り	今回の継代日は:	予定通り	予定より遅い	
細胞の状態	コロニーがほとんど前がやや多		分化した細胞が多い	コロニーが多い	よくわからないが変	コンフルエント	サブコンフルエント	細胞が予定より少ない	細胞がほとんど死んでいる
写真	なし/あり	x50 ()	x100 ()	x200 ()	ファイル格納場所		(研究業務)共有>50 写真 維持用細胞		
機器	遠心機		37℃湯浴		CO2インキュベーター		No.		
medium	京大培地	Lot: Kes	EB(-2Me)	Lot: EB(-)	mTeSR	Lot:	Variance		
	成育培地	Lot: Sip	EB+2ME	Lot: EB(+)	CMEV+FBS	Lot: EC			
	hESF8	Lot: EB 130121/130123	Condition Med	Lot: CMC	FGF-2	Lot: D2222			
	hESF6	Lot: EB	Condition Med	Lot: CMB	activin	Lot: ENV321201E			
	hESF-FX	Lot: FX	Condition Med	Lot: GM	FDGF	Lot:			
	hESF-D#	Lot: Edif	FBS	Lot:	ROCK inhibitor	Lot:			
必要量	培地	88 mL	37℃湯浴	10 min					
用事添加因子	FGF-2	10ng/ul	x(88)microL	最終濃度	10 ng/ml	x()microL	最終濃度	g/ml	
	Activin A	10ng/ml	x(17.6)microL	最終濃度	2 ng/ml	x()microL	最終濃度	g/ml	
	PDGF	10ng/ml	x()microL	最終濃度	ng/ml	x()microL	最終濃度	g/ml	
	Rock inhibitor	x()microL	最終濃度	ng/ml	x()microL	最終濃度	g/ml		
分散液	Dispase	Lot: D	CTK	Lot: CTK	Variance				
	High Trypsin/EDTA	Lot: TE(H)	アキュターゼ		Lot:				
	Low Trypsin/EDTA	Lot: TE(L)							
	Media Trypsin/EDTA	Lot: TE(M)							
	STEMPRO32 Passage Tool								
必要量	ml								
分散枚数	25cmフラスコ	75cm フラスコ	60mm Dish	90mm Dish	Variance				
	6well plate	12well plate	24well plate						
洗浄/培地交換	1回目PBS	ml/each	1回目培地	ml/each	Variance				
	2回目PBS	ml/each	2回目培地	ml/each					
剥離液処理	ml/each	Variance							
処理時間	室温	~1分	~2分	~7分	~10分	ピックアップ: ①-3コロニー			
	37℃	~1分	~2分	~7分	~10分	②-10コロニーぐらい			
処理後の様相	コロニーの周囲のみがカール	コロニーが半分程度剥がれた	コロニーがほとんど浮き上がった	ほとんど変化しない	継代				
	剥離剤吸引除去	x(1)	(1:5) 2ml播種x1						
分散	Wash with Medium	10 ml/each	x(1)	(1:10) 1ml播種x3					
	Wash with PBS	ml/each	x()	(1:15) 670ul播種x3					
	pipetting	x()	(1:20) 500ul播種x3						
	scraper	x()	酵素液で変化がなかった =>						
回収	チューブに回収	直接次の培養器に播種		Variance					
遠心速度	200rpm (10G)	300rpm (20G)	700rpm (90G)	1000rpm (190G)	1200rpm (270G)	顕微鏡で先細でピックアップ			
遠心時間	1min	2min	3min	5min	培養液全量回収後、300rpm1min遠				
上清を除去	Wash培地添加	10 ml/each	pipetting	x()	上清吸引除去 播種用培地6mlで				
	繰り返し	x()	浮遊させて 1枚に播種						
調製	細胞浮遊液	10 ml	pipetting	x(2)	Variance				
細胞数計測	ヘモサイトメーター	()micro	mix with trypanblue	()microL	()cells/ml				
	コーンターカウンター	()mL	()cells/ml						
	GEカウンター	()microL	()cells/ml						
容器と枚数	細胞浮遊液	7 ~ 8 ml/each	※分散密度	1 : 5 ~ 1 : 20					
	25cmフラスコ	x(12)	75cmフラスコ	x()	80mm Dish	x()	90mm Dish	x()	x()
	6well plate	x()	12well plate	x()	24well plate	x()	x()	x()	x()
インキュ	No. :	資源下	CO2濃度 :	10%					