

Stem Cell Information

The official **National Institutes of Health** resource for stem cell research

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Information on Eligibility Criteria for Federal Funding of Research on Human Embryonic Stem Cells

On August 9, 2001, at 9:00 p.m. EDT, the President announced his decision to allow Federal funds to be used for research on existing human embryonic stem cell lines as long as prior to his announcement (1) the derivation process (which commences with the removal of the inner cell mass from the blastocyst) had already been initiated and (2) the embryo from which the stem cell line was derived no longer had the possibility of development as a human being.

In addition, the President established the following criteria that must be met:

- ▶ The stem cells must have been derived from an embryo that was created for reproductive purposes;
- ▶ The embryo was no longer needed for these purposes;
- ▶ Informed consent must have been obtained for the donation of the embryo;
- ▶ No financial inducements were provided for donation of the embryo.

In order to facilitate research using human embryonic stem cells, the NIH created the Human Embryonic Stem Cell Registry, which lists the human embryonic stem cell lines—at varying stages of development—that meet the [eligibility criteria](#). Listed below are entities that have developed stem cell lines that meet the President's criteria and are therefore eligible for federal funding. Please click on the name of the laboratory or company for contact information.

Name	Derivations	Available Lines
BresaGen, Inc., Athens, Georgia * The cells in line BG04/hESBGN-04 failed to expand into undifferentiated cell cultures.	4	3*
Cell & Gene Therapy Research Institute (Pochon CHA University), Seoul, Korea	2	
Cellartis AB, Göteborg, Sweden * Cell line SA03/Sahlgrenska 3 withdrawn by donor.	3	2*
CyThera, Inc., San Diego, California * The cells failed to expand into undifferentiated cell cultures.	9	0*
ES Cell International, Melbourne, Australia	6	6
Geron Corporation, Menlo Park, California	7	
Göteborg University, Göteborg, Sweden	16	
Karolinska Institute, Stockholm, Sweden * The cells failed to expand into undifferentiated cell cultures.	6	0*
Maria Biotech Co. Ltd. – Maria Infertility Hospital Medical Institute, Seoul, Korea	3	
MizMedi Hospital—Seoul National University, Seoul, Korea	1	1
National Centre for Biological Sciences/Tata Institute of Fundamental Research,		

Bangalore, India		
Reliance Life Sciences , Mumbai, India	7	
Technion-Israel Institute of Technology , Haifa, Israel	4	3
University of California , San Francisco, California	2	2
Wisconsin Alumni Research Foundation , Madison, Wisconsin	5	5

If investigators or institutions have additional human embryonic stem cell lines that they believe are eligible for listing on the Registry, please contact NIH at stemcell@mail.nih.gov.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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NIH Human Embryonic Stem Cell Registry

The NIH Human Embryonic Stem Cell Registry lists the [derivations of stem cells that are eligible for federal funding](#). The purpose of the Registry is to provide investigators with:

- ▶ a unique NIH Code for each cell line that must be used when applying for NIH funding and
- ▶ contact information to facilitate investigators' acquisition of stem cells.

Providers with Lines Available for Shipping

BresaGen, Inc.

Cell Lines

NIH Code: **BG01**, **BG02**, **BG03**, **BG04***

Provider's Code: **hESBGN-01**, **hESBGN-02**, **hESBGN-03**, **hESBGN-04***

* The cells failed to expand into undifferentiated cell cultures.

▶ [Table of Cell Characteristics](#)

Contact Information

Allan Robins, Ph.D.
Senior Vice President and Chief Scientific Officer
BresaGen, Inc.
111 Riverbend Road
Athens, GA 30605
Phone: 706-613-9878 x.158
Fax: 706-613-9879
E-mail: ARobins@bresagen.com.au
Web site: <http://www.bresagen.com>

[Memorandum of Understanding](#) (27k PDF file)

Cellartis AB

Cell Lines

NIH Code: **SA01**, **SA02**, **SA03***

Provider's Code: **Sahlgrenska 1**, **Sahlgrenska 2**, **Sahlgrenska 3***

* Cell line withdrawn by donor.

▶ [Table of Cell Characteristics](#)

Contact Information

Christer Silversand, Ph.D.
Cellartis AB
Arvid Wallgrens Backe 20
SE-413 46 Göteborg
Sweden
Telephone: +46 (0)31 758 0920
Fax: +46 (0)31 758 0910
E-mail: christer.silversand@cellartis.se

Johan Hyllner, Ph.D.
Cellartis AB
Arvid Wallgrens Backe 20
SE-413 46 Göteborg
Sweden
Phone: +46 (0)31 758 0920
Fax: +46 (0)31 758 0910
E-mail: johan.hyllner@cellartis.se

[Memorandum of Understanding](#) (59k PDF file)

ES Cell International

Cell Lines

Contact Information

NIH Code: **ES01, ES02, ES03, ES04, ES05, ES06**

Provider's Code: **HES-1, HES-2, HES-3, HES-4, HES-5, HES-6**

► [Table of Cell Characteristics](#)

Michael Vovos, IP and Licensing Manager
ES Cell International
41 Science Park Road
04-14/15 The Gemini
Singapore Science Park II
Singapore 117610
Phone: +65-6774-9570
Fax: +65-6774-5077
E-mail: mvovos@escellinternational.com
Web site: <http://www.escellinternational.com>

[Memorandum of Understanding](#) (30k PDF file)

Publications

<http://www.escellinternational.com/research/papers.html>

hESC Training

<http://www.escellinternational.com/products/trainingsupport.html>
<http://www.escellinternational.com/products/cellquality.html>

MizMedi Hospital—Seoul National University

Cell Lines

NIH Code: **MI01**

Provider's Code: **Miz-hES1**

► [Table of Cell Characteristics](#)

Contact Information

Hyun Soo Yoon, Ph.D.
Director, Infertility Research Center
MizMedi Hospital
1021-4, Daechi-dong, Kangnam-ku
Seoul 135-280
Korea
Phone: (82) 2 3467 3702
Fax: (82) 2 501-3472
E-mail: stemcellyoon@chol.com
Web site: <http://www.mizmedi.com/MMRC/MMRCmain.htm>

[Material Transfer Agreement](#) (28k PDF file)

Technion-Israel Institute of Technology

Cell Lines

NIH Code: **TE03, TE32*, TE33*, TE04, TE06, TE62*, TE07*, TE72***

Provider's Code: **I 3, I 3.2*, I 3.3*, I 4, I 6, I 6.2*, J 3*, J 3.2***

* These lines are not yet available for shipping.

► [Table of Cell Characteristics](#)

Contact Information

Dr. Joseph Itskovitz, M.D., D.Sc.
Rambam Medical Center
Department of OB/GYN
POB 9602
Haifa 31096
Israel
Phone: 972-4-8542536
Fax: 972-4-8542503
E-mail: itskovitz@rambam.health.gov.il
Web site: <http://www.technion.ac.il>

[Material Transfer Agreement](#) (80K PDF file)

University of California at San Francisco

Cell Lines

NIH Code: **UC01, UC06**

Provider's Code: **HSF-1, HSF-6**

Contact Information

Dr. Meri Firpo
Department of Obstetrics and Gynecology
Box 0720

▶ [Table of Cell Characteristics](#)

San Francisco, CA 94143
Phone: 415-476-4733
Fax: 415-476-6145
E-mail: firpo@itsa.ucsf.edu
Web site: <http://escells.ucsf.edu>

[Memorandum of Understanding](#) (40k PDF file)
[Material Transfer Agreement](#)

hESC Training

<http://escells.ucsf.edu/Training/Trng.asp>

Wisconsin Alumni Research Foundation (WiCell Research Institute)

Cell Lines

NIH Code: **WA01, WA07, WA09, WA13, WA14**

Provider's Code: **H1, H7, H9, H13, H14**

▶ [Table of Cell Characteristics](#)

Contact Information

Tammy Torbleau
Secretary, Licensing Department
Wisconsin Alumni Research Foundation (WARF)
P.O. Box 7365
Madison, WI 53707-7365
Phone: 608-263-6297
Fax: 608-263-1064
E-mail: info@wicell.org
Web site: <http://www.warf.ws>
Web site: <http://www.wicell.org>

[Memorandum of Understanding](#) (22k PDF file)
[Technical Information: Protocols & Work Flow](#)

Publications

<http://www.wicell.org/forresearchers/index.jsp?catid=11>

hESC Training

<http://www.wicell.org/learn/>

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Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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Cell Lines Not Yet Available for Shipping

The NIH Human Embryonic Stem Cell Registry lists the [derivations of stem cells that are eligible for federal funding](#). The purpose of the Registry is to provide investigators with:

- ▶ a unique NIH Code for each cell line that must be used when applying for NIH funding and
- ▶ contact information to facilitate investigators' acquisition of stem cells.

Providers with No Lines Available for Shipping

Cell & Gene Therapy Research Institute (Pochon CHA University)

Cell Lines

NIH Code: **CH01***, **CH02***

Provider's Code: **CHA-hES-1***, **CHA-hES-2***

* These lines are not yet available for shipping.

Cell characteristics not available from provider.

Contact Information

Hyung Min Chung, Ph.D.
Director, Cell & Gene Therapy Research Institute
Pochon CHA University College of Medicine
605 Yeoksam 1-dong, Kangnam-gu
Seoul 135-081
Korea
Tel: (82) 2 3468 3391
Fax: (82) 2 3468 3393
Cell: (82) 17 208 1926
E-mail: hmchung@chacares.com

CyThera, Inc.

Cell Lines

The cells failed to expand into undifferentiated cell cultures.

▶ [Table of Cell Characteristics](#)

Contact Information

CyThera, Inc.
3550 General Atomics Court #02-503
San Diego, CA 92121
Phone: 858-455-3708
Fax: 858-455-3962

Geron Corporation

Cell Lines

NIH Code: **GE01***, **GE07***, **GE09***, **GE13***, **GE14***, **GE91***, **GE92***

Provider's Code: **H1***, **H7***, **H9***, **H13***, **H14***, **H9.1***, **H9.2***

* These lines are not yet available for shipping.

▶ [Information on Cell Characteristics](#)

Contact Information

Stem Cell Request
230 Constitution Drive
Menlo Park, CA 94025
Phone: 650-473-7216
Fax: 650-473-7750
E-mail: esrequest@geron.com
Web site: <http://www.geron.com>

Göteborg University

Cell Lines

NIH Code: **SA04-SA19***

Provider's Code: **Sahlgrenska 4-Sahlgrenska 19***

Contact Information

Professor Peter S. Eriksson
Arvid Carlsson Institute
Sahlgrenska Academy at Göteborg University

* These lines are not yet available for shipping.

► [Table of Cell Characteristics](#)

Sahlgrenska University Hospital
413 45 Göteborg
Sweden
Phone: 46-31-3424348
Mobile: 46-708-593592
Fax: 46-31-3422437

Karolinska Institute

Cell Lines

The cells failed to expand into undifferentiated cell cultures.

► [Table of Cell Characteristics](#)

Contact Information

Dr. Lars Ahrlund-Richter
Huddinge University Hospital, Novum
SE-141 86 Stockholm
Sweden
Phone: 46 9 5858 3848
Fax: 46 8 5858 3870

Maria Biotech Co. Ltd.—Maria Infertility Hospital Medical Institute

Cell Lines

NIH Code: **MB01***, **MB02***, **MB03***

Provider's Code: **MB01***, **MB02***, **MB03***

* These lines are not yet available for shipping.

► [Table of Cell Characteristics](#)

Contact Information

Jin Ho Lim, President
Maria Biotech Co.
103-11, Shinseol-Dong, Dongdaemun-Gu
Seoul 130-812
Korea
Phone: (82) 2 2250-5580
Fax: (82) 2 2250-5585
E-mail: lim@mariababy.com

National Centre for Biological Sciences/Tata Institute of Fundamental Research

Cell Lines

NIH Code: **NC01***, **NC02***, **NC03***

Provider's Code: **FCNCBS1***, **FCNCBS2***, **FCNCBS3***

* These lines are not yet available for shipping.

► [Information on Cell Characteristics](#)

Contact Information

Dr. Mitradas M. Panicker
University of Agricultural Sciences
GKVK Campus
GKVK P.O., Bellary Road
Bangalore, 560065
India
Phone: 91-80-363-6420
Fax: 91-80-363-6662
E-mail: panic@ncbs.res.in

Reliance Life Sciences

Cell Lines

NIH Code: **RL05***, **RL07***, **RL10***, **RL13***, **RL15***, **RL20***, **RL21***

Provider's Code: **RLS ES 05***, **RLS ES 07***, **RLS ES 10***,
RLS ES 13*, **RLS ES 15***, **RLS ES 20***, **RLS ES 21***

* These lines are not yet available for shipping.

Cell characteristics not available from provider.

Contact Information

Dr. K.V. Subramaniam
Maker Chambers IV
Naariman Point
Mumbai 4000021
India
E-mail: K_v_subramaniam@ril.com
Web site: <http://www.ril.com>

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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Provider: BresaGen, Inc.

BresaGen, Inc. Registered Cell Lines (United States)				
NIH Code	BG01	BG02	BG03	BG04*
Provider's Code	(hESBGN.01)	(hESBGN.02)	(hESBGN.03)	(hESBGN.04)*
Embryo				
Source	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic
Category	Fresh	Fresh	Fresh	Fresh
IVF Status	Discarded—unacceptable for further use	Discarded—unacceptable for further use	Discarded—unacceptable for further use	Discarded—unacceptable for further use
Characteristics				
Passage #	> 70	> 40	> 35	< 5
Mouse Feeder Cells Used in Isolation	Yes	Yes	Yes	Yes
Karyotype	Normal	Normal	46XX	TBD
Stem Cell Immuno Markers:	+	+		
SSEA-1	-	-	-	-
SSEA-3	+	+	+	+
SSEA-4	+	+	+	+
TRA 1-60	+	+	+	TBD
TRA 1-81	+	+	+	TBD
Oct-4	+	+	+	TBD
Alkaline Phosphatase	+	+	+	+
Gender	Male	Male	Female	TBD
Frozen/Thawed:				
Short-term	Yes	Yes	Yes	Yes
Long-term	Yes	Yes	Yes	TBD
Pluripotent	Yes	Yes	Yes	TBD
Commercialization				
Available	43	16	25	No
				(The cells failed to expand into undifferentiated cell cultures.)
Price	\$5,000 + actual shipping cost	\$5,000 + actual shipping cost	\$5,000 + actual shipping cost	NA
# Shipped	30	12	3	NA
Total			45	

TBD = To be Determined; NA = Not Applicable

This cell line meets the criteria for the use of human embryonic stem cells by federally funded researchers.

* The cells failed to expand into undifferentiated cell cultures.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

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Provider: Cellartis AB

Cellartis AB Registered Cell Lines (Sweden)			
NIH Code	SA01	SA02	SA03*
Provider's Code	(Sahlgrenska 1)	(Sahlgrenska 2)	(Sahlgrenska 3)*
Embryo			
Source	IVF Clinic	IVF Clinic	IVF Clinic
Category	Frozen	Frozen	Frozen
IVF Status	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded
Characteristics			
Passage #	Passage 13 (LOT AK001, > 100 vials available)	Passage 12 (LOT AL002, > 100 vials available)	Donation withdrawn
Mouse Feeder Cells Used in Isolation	Yes	Yes	
Karyotype	46, XY	47, XX +13	
Stem Cell Immuno Markers:			
SSEA-1	-	-	
SSEA-3	+	+	
SSEA-4	+	+	
TRA 1-60	+	+	
TRA 1-81	+	+	
Oct-4	+	+	
Alkaline Phosphatase	+	+	
Gender	Male	Female	
Frozen/Thawed:	Yes	Yes	
Short-term	Yes	Yes	
Long-term	Yes	Yes	
Pluripotent	Yes	Yes	
Commercialization			
Customer Base			

TBD = To be Determined; NA = Not Applicable

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

* Cell line withdrawn by donor.

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Provider: CyThera, Inc.

Note: The cells failed to expand into undifferentiated cell cultures.

CyThera, Inc. Registered Cell Lines (United States)									
NIH Code	CY12	CY30	CY40	CY51	CY81	CY82	CY91	CY92	CY10
Provider's Code	(hES-1-2)	(hES-3-0)	(hES-4-0)	(hES-5-1)	(hES-8-1)	(hES-8-2)	(hES-9-1)	(hES-9-2)	(hES-101)
Embryo									
Source	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic
Category	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo
IVF Status	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded
Characteristics									
Passage #	2	3	4	5	4	3	5	2	2
Mouse Feeder Cells Used in Isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Karyotype	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Stem Cell Immuno Markers:									
SSEA-1	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
SSEA-3	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
SSEA-4	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
TRA 1-60	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
TRA 1-81	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Oct-4	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Alkaline Phosphatase	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Gender	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Frozen/Thawed:	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Short-Term									
Long-Term									
Pluripotent	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Commercialization	NA	NA	NA	NA	NA	NA	NA	NA	NA

TBD = To be Determined; NA = Not Applicable

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

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FIRSTGOV

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Provider: Geron Corporation

Note: These lines are not yet available for shipping.

Geron Corporation Registered Cell Lines (United States)

NIH Code	GE01	GE07	GE09	GE13	GE91 (clone)	GE92 (clone)
Provider's Code	(WiCell H1)	(WiCell H7)	(WiCell H9)	(WiCell H13)	(WiCell H9.1)	(WiCell H9.2)

Geron responds to the NIH's request for information on cell characteristics, 6/12/2003

All of the embryonic stem cell lines in Geron's possession that are on the NIH Stem Cell Registry were derived elsewhere. Five of them were derived at the University of Wisconsin-Madison; two are clones of one of the Wisconsin lines; and two others were derived at the University of California, San Francisco. Under Geron's agreement with Wisconsin Alumni Research Foundation, we are not permitted to transfer the undifferentiated Wisconsin cell lines to third parties, except for Geron collaborators for work on projects described and directed by Geron. WiCell Research Institute does distribute the Wisconsin lines to researchers, however, and UCSF distributes the UCSF lines.

As to your specific questions: None of the lines is a frozen inner cell mass; they are all cell lines. They are all proliferating.

- ▶ The H1, H7 and H9 lines have been extensively characterized. We have recently submitted manuscripts on the detailed characterization of these three lines. We can provide you a copy of the manuscripts in confidence, or send them to you once they have been published. The lines have the expected markers to show undifferentiated status, and we have demonstrated differentiation in all three germ layers for all 3 of the lines.
- ▶ The H1, H7 and H9 lines have been passaged extensively. In most cases, over 70 passages have been achieved.
- ▶ The lines are all useful for research. Two of the lines, H1 and H7, have been tested quite extensively for the presence of potential pathogens of human and animal origin, based on the specified by FDA in its Points to Consider and other guidance.

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

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Provider: Göteborg University

Note: These lines are not yet available for shipping.

Göteborg University Registered Cell Lines (Sweden)	
NIH Code	SA04–SA19
Provider's Code	(Sahlgrenska 4–Sahlgrenska 19)
Embryo	
Source	IVF Clinic
Category	Frozen
IVF Status	Surplus, to be discarded
Characteristics	
Passage #	2–3
Mouse Feeder Cells	No
Used in Isolation	
Karyotype	TBD
Stem Cell Immuno Markers:	
SSEA-1	TBD
SSEA-3	TBD
SSEA-4	TBD
TRA 1-60	TBD
TRA 1-81	TBD
Oct-4	TBD
Alkaline Phosphatase	TBD
Gender	TBD
Frozen/Thawed:	TBD
Short-term	
Long-term	
Pluripotent	TBD
Commercialization	NA

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Provider: Karolinska Institute

Note: The cells failed to expand into undifferentiated cell cultures.

Karolinska Institute Registered Cell Lines (Sweden)						
NIH Code	KA08	KA09	KA40	KA41	KA42	KA43
Provider's Code	(hICM8)	(hICM9)	(hICM40)	(hICM41)	(hICM42)	(hICM43)
Embryo						
Source	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic
Category	Fresh	Fresh	Fresh	Fresh	Fresh	Fresh
IVF Status	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded
Characteristics						
Passage #	Frozen, awaiting characterization	Frozen, awaiting characterization	Frozen, awaiting characterization	Frozen, awaiting characterization	Frozen, awaiting characterization	Frozen, awaiting characterization
Mouse Feeder Cells Used in Isolation	Yes	Yes	No	No	No	No
Karyotype	TBD	TBD	TBD	TBD	TBD	TBD
Stem Cell Immuno Markers:			TBD	TBD	TBD	TBD
SSEA-1	TBD	Weak				
SSEA-3	TBD	TBD				
SSEA-4	TBD	++				
TRA 1-60	TBD	TBD				
TRA 1-81	TBD	TBD				
Oct-4	TBD	TBD				
Alkaline Phosphatase	+	+				
Gender	TBD	TBD	TBD	TBD	TBD	TBD
Frozen/Thawed:	TBD	TBD	TBD	TBD	TBD	TBD
Short-term	3 weeks	3 weeks				
Long-term	3 months	3 months				
Pluripotent	TBD	TBD	TBD	TBD	TBD	TBD
Commercialization	NA	NA	NA	NA	NA	NA

TBD = To be Determined; NA = Not Applicable

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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Stem Cell Information

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[Home](#) > [Research Topics](#) > [NIH Human Embryonic Stem Cell Registry](#) > [Cell Lines Not Yet Available for Shipping](#) > **Provider: Maria Biotech Co. Ltd.—Maria Infertility Hospital Medical Institute**

Provider: Maria Biotech Co. Ltd.—Maria Infertility Hospital Medical Institute

Note: These lines are not yet available for shipping.

Maria Biotech Co. Ltd.—Maria Infertility Hospital Medical Institute Registered Cell Lines (Korea)			
NIH Code	MB01	MB02	MB03
Provider's Code	(MB01)	(MB02)	(MB03)
Embryo			
Source	IVF Clinic	IVF Clinic	IVF Clinic
Category	Cryopreservation	Cryopreservation (27 passages) In vitro (>30 passages)	Cryopreservation (27 passages) In vitro (>50 passages)
IVF Status	Were to be discarded 5 years after IVF-ET program	Were to be discarded 5 years after IVF-ET program	Were to be discarded 5 years after IVF-ET program
Characteristics			
Passage #	40	>30	>50
Mouse Feeder Cells Used in Isolation	STO cell feeder (After immunosurgery, isolated ICM cell was cocultured with mouse STO cell and hES cell line was established)	STO cell—feeder free (After immunosurgery, isolated ICM cells were cocultured with mouse STO cell. To grow hES cells without a feeder layer, aged MB02 and MB03 cells that had been passaged 10 times were cultured on Matrigel coated plates, respectively.)	STO cell—feeder free (After immunosurgery, isolated ICM cells were cocultured with mouse STO cell. To grow hES cells without a feeder layer, aged MB02 and MB03 cells that had been passaged 10 times were cultured on Matrigel coated plates, respectively.)
Karyotype	46 XY, Normal	46, XX, Normal	46, XX, Normal
Stem Cell Immuno Markers:			
SSEA-1	-	-	-
SSEA-3	+	+	+
SSEA-4	+	+	+
TRA 1-60	+	+	+
TRA 1-81	+	+	+
Oct-4	+	+	+
Alkaline Phosphatase	+	+	+
Gender	Male	Female	Female
Frozen/Thawed:	40 passages frozen	27 passages frozen >30 passages cultured	>50 passages in vitro culture
Pluripotent	Yes	Yes	Yes
Commercialization			
Available	To scientists in Korea	To scientists in Korea	To scientists in Korea

Price	Unknown	Unknown	Unknown
# Shipped	Unknown	Unknown	Unknown

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

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[Home](#) > [Research Topics](#) > [NIH Human Embryonic Stem Cell Registry](#) > **Provider: MizMedi Hospital—Seoul National University**

Provider: MizMedi Hospital—Seoul National University

MizMedi Hospital—Seoul National University Registered Cell Lines (Korea)	
NIH Code	MI01
Provider's Code	(Miz-hES1)
Embryo	
Patient's Consent	Yes
IRB Approvals	Yes
Source	IVF Clinic
Category	Frozen embryo
IVF Status	Surplus, to be discarded
Characteristics	
Passages	125
Teratoma Foundation	Three germ layer
Embryoid Body	Three germ layer
DNA Fingerprinting	TBD
Karyotype	Normal 46 XY
Stem Cell Immuno Markers:	
SSEA-1	-
SSEA-3	Partially +
SSEA-4	+
TRA 1-60	+
TRA 1-81	+
Oct-4	+
Alkaline Phosphatase	+
Gender	Male
Frozen/Thawed:	
Short-Term	Yes
Long-Term	Yes
Pluripotent	Yes
Commercialization	
Available	1,000
Price	\$5,000
# Shipped	28

TBD = To be Determined

This cell line meets the criteria for the use of human embryonic stem cells by federally funded researchers.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

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[Home](#) > [Research Topics](#) > [NIH Human Embryonic Stem Cell Registry](#) > [Cell Lines Not Yet Available for Shipping](#) > **Provider: National Centre for Biological Sciences/Tata Institute of Fundamental Research**

Provider: National Centre for Biological Sciences/Tata Institute of Fundamental Research

Note: These lines are not yet available for shipping.

National Centre for Biological Sciences/Tata Institute of Fundamental Research (India)

NIH Code	NC01	NC02	NC03
Provider's Code	(FCNCBS1)	(FCNCBS2)	(FCNCBS3)

NCBS responses to the NIH's request for information on cell characteristics

1. What is the status of each of your embryonic stem cell derivation listed on the NIH Embryonic Stem Cell Registry?

- ▶ Is it a frozen inner cell mass?

Yes

- ▶ Is it proliferating?

It was frozen after 7 days in culture. We have not characterised them. We are obtaining experience in generating new cell lines and will thaw these when we decide we have sufficient data and experience.

- ▶ Has it undergone any characterization? If so, are there markers identified to show undifferentiated status? Is their evidence the cells can differentiate into any of the three germ layers (ectoderm, mesoderm, endoderm)?

No evidence for that—see above.

- ▶ If the lines are proliferating, how many passages have been achieved?

See above.

2. Have these derivations been shipped to any NIH-funded researchers?

No

3. If the derivation has not been shipped, are there any plans to develop this derivation to research quality?

Yes, we hope to develop these and other lines.

4. When will they be readily available to NIH researchers?

I hope that once they are derived and characterized they would be available to the academic community.

5. Have any restrictions been placed on the use of these derivation by your national laws?

The guidelines that are being discussed at this point suggest that cells may not be shipped outside of India. My understanding is that this may be allowed in the future only on approval by a National

Committee on a case by case basis for research purposes.

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

* These lines are not yet available for shipping.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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Provider: Technion-Israel Institute of Technology

Technion-Israel Institute of Technology Registered Cell Lines (Israel)								
NIH Code	TE-03	TE-32*	TE-33*	TE-04	TE-06	TE-62*	TE-07*	TE-72*
Provider's Code	(I 3)	(I 3.2)*	(I 3.3)*	(I 4)	(I 6)	(I 6.2)*	(J 3)*	(J 3.2)*
Embryo								
Source	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic	IVF Clinic
Category	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Frozen embryo	Fresh embryo	Frozen embryo
IVF Status	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded	Surplus, to be discarded
Characteristics								
Passage #	20–30	TBD	TBD	25–35	20–30	TBD	NP	TBD
Mouse Feeder Cells Used in Isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Karyotype	46,XX	TBD	TBD	46,XX	46,XY	TBD	46,XY	TBD
Stem Cell Immuno Markers:								
SSEA-1	-	TBD	TBD	-	-	TBD	-	TBD
SSEA-3	-/+	TBD	TBD	-/+	-/+	TBD	-/+	TBD
SSEA-4	+	TBD	TBD	+	+	TBD	+	TBD
TRA 1-60	+	TBD	TBD	+	+	TBD	+	TBD
TRA 1-81	+	TBD	TBD	+	+	TBD	+	TBD
Oct-4	+	TBD	TBD	+	+	TBD	+	TBD
Alkaline Phosphatase	+	TBD	TBD	+	+	TBD	TBD	TBD
Gender	Female	TBD	TBD	Female	Male	TBD	Male	TBD
Frozen/Thawed:		TBD	TBD			TBD		TBD
Short-Term	Yes			Yes	Yes		Yes	
Long-Term	Yes			Yes	Yes		Yes	
Pluripotent <i>in vitro</i> (EBs)	Yes	TBD	TBD	Yes	Yes	TBD	Yes	TBD
Pluripotent <i>in vitro</i> (teratomas)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Commercialization	Yes, NOGA	NA	NA	Yes, NOGA	Yes, NOGA	NA	NA	NA

	dated 9/05/2003			dated 9/05/2003	dated 9/05/2003			
Available	30	NA	NA	30	30	NA	NP	NA
Price	\$2,500 + shipping	NA	NA	\$2,500 + shipping	\$2,500 + shipping	NA	NP	NA
# Shipped	21	NA	NA	NP	18	NA	NP	NA
Total					39			

TBD = To be Determined; NA = Not Applicable; NP = Not Provided

These cell lines meet the criteria for the use of human embryonic stem cells by federally funded researchers.

* These lines are not yet available for shipping.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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[Home](#) > [Research Topics](#) > [NIH Human Embryonic Stem Cell Registry](#) > **Provider: University of California at San Francisco**

Provider: University of California at San Francisco

University of California at San Francisco Registered Cell Lines (United States)		
NIH Code	UC01	UC06
Provider's Code	(HSF-1)	(HSF-6)
Embryo		
Source	IVF Clinic	IVF Clinic
Category	Fresh	Fresh
IVF Status	Surplus, to be discarded	Surplus, to be discarded
Characteristics		
Passage #	TBD	TBD
Mouse Feeder Cells	Yes	Yes
Used in Isolation		
Karyotype	46XY	46XX
Stem Cell Immuno Markers:		
SSEA-1	-	-
SSEA-3	+	+
SSEA-4	+	+
TRA 1-60	+	+
TRA 1-81	+	+
Oct-4	+	+
Alkaline Phosphatase	+	+
Gender	Male	Female
Frozen/Thawed:		
Short-Term	Yes	Yes
Long-Term	Yes	Yes
Pluripotent	Yes	Yes
Commercialization		
Available	45	36
Price	\$5,000	\$5,000
# Shipped		46

TBD = To be Determined; NA = Not Applicable

This cell line meets the criteria for the use of human embryonic stem cells by federally funded researchers.

In your grant applications please use the NIH codes, rather than the providers' codes, to identify the cell lines.

Information about the cell line comes from the provider and has not been independently verified by the NIH.

For any questions about the registry, please e-mail stemcell@mail.nih.gov or call 301-496-2691.

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Outside U.S.	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
# Shipped	149	8	45	0	2
Total			204		

TBD = To be Determined; NA = Not Applicable

This cell line meets the criteria for the use of human embryonic stem cells by federally funded researchers.

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