2001 DRAFTING REQUEST

Assembly Amendment (AA-ASA1-SB55)

Received: 06/24/2001

Wanted: As time permits

For: Assembly Republican Caucus 7-4887

This file may be shown to any legislator: NO

May Contact: LFB

Subject:

Health - abortion

Received By: kenneda

Identical to LRB:

By/Representing: Hughes

Drafter: kenneda

Addl. Drafters:

Extra Copies:

ISR

Submit via email: NO

Requester's email:

Pre Topic:

ARC:.....Hughes - AM107

Topic:

Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research

Instructions:

See Attached

Drofting History

Draiting	History:		•				
Vers.	Drafted	Reviewed	Typed	Proofed	Submitted	Jacketed	Required
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/1		,	rschluet 06/25/200	1	lrb_docadmin 06/25/2001		
/2	kenneda 06/25/2001	wjackson 06/25/2001	rschluet 06/26/200	1	lrb_docadmin 06/26/2001		
/3	kenneda 06/28/2001	jdyer 06/28/2001	haugeca 06/28/200	1	lrb_docadmin 06/28/2001		

FE Sent For:

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2001 DRAFTING REQUEST

Assembly Amendment (AA-ASA1-SB55)

Received: 06/24/2001				Received By: kenneda Identical to LRB:			
Wanted: As time permits							
For: Ass	sembly Republ	ican Caucus 7	-4887		By/Representing	Hughes	
This file	e may be shown	to any legislato	r: NO		Drafter: kenneda	1	
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Topic:							
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06/28/2001 03:16:32 PM Page 2

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Received: 06/24/2001

2001 DRAFTING REQUEST

Received By: kenneda

Assembly Amendment (AA-ASA1-SB55)

Wanted: As time permits					Identical to LRB:			
For: Asse	embly Republi	ican Caucus 7	-4887		By/Representing:	Hughes		
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06/26/2001 11:19:19 AM Page 2

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FE Sent For:

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2001 DRAFTING REQUEST

Assembly Amendment (AA-ASA1-SB55)

Wanted: As time permits					Received By: kenneda Identical to LRB:			
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2001 DRAFTING REQUEST

Assembly Amendment (AA-ASA1-SB55)

Received: 06/24/2001

Received By: kenneda

Wanted: As time permits

Identical to LRB:

For: Assembly Republican Caucus 7-4887

By/Representing: Hughes

This file may be shown to any legislator: NO

Drafter: kenneda

May Contact: LFB

Addl. Drafters:

Subject:

Health - abortion

Extra Copies:

ISR

Submit via email: NO

Requester's email:

Pre Topic:

ARC:.....Hughes -

Topic:

AM107-

Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research and prohibit sale of fetal body parts

Instructions:

See Attached

Drafting History:

Vers.

Drafted

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Submitted

<u>Jacketed</u>

Required

/? kenneda

FE Sent For:

Budget Amendments 2001 - 2003

Prepared by the Assembly Republican Caucus

Statement of Intent

Human Embryonic & Fetal Body Part Research

Legislator

Albers

Amendment

107

Legislator 2

Pass or Fail

Pass

Legislator 3

Spending Cut

Legislator 4

Withdrawn

Staff contact

Scott

Package

Agency

Health and Family Services

Summary

- 1) Ban the use of human embryos for research purposes. Define "human embryo" to encompass all stages of human life from fertilization onward.
- 2) Ban the use of certain fetal body parts for research purposes. Define "fetal body part" as a cell, tissue, organ or other part of a human being after fertilization who is aborted by an induced abortion.
- 3) Specifically allow the use of stem cells and stem cell lines that: a) derive from a human embryo; and
- b) are in existence as of January 1, 2002.

Fiscal Impact

Fiscal Impact Unknown

Drafting Inst

ARC Analyst

Hughes

Request #

171

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Date (time)

Sood	
2001	

LRB b 1721 / 1

ARC CAUCUS BUDGET AMENDMENT [ONLY FOR CAUCUS]

DAK: CONH:

See form AMENDMENTS — COMPONENTS & ITEMS.

CAUCUS AMENDMENT TO ASSEMBLY SUBSTITUTE AMENDMENT 1 TO 2001 SENATE BILL 55

D. NOLE

>>FOR CAUCUS SUPERAMENDMENT — NOT FOR INTRODUCTION<<

At the locations indicated, amend the substitute amendment as follows:

#.	Page 94.5, line .25:	after that live most	:
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- #. Page line:
- #. Page, line:

2001 BILL

AN ACT ...; relating to: prohibiting the acquisition, receipt, other transfer, or use, for purposes of research, of fetal body parts, embryos, and certain stem cells and stem cell lines and prohibiting the acquisition, receipt, other transfer, or use of fetal body parts for valuable consideration.

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Analysis by the Legislative Reference Bureau

Under current law, no one may knowingly and for valuable consideration acquire, receive, or otherwise transfer a human organ for use in human organ transplantation. A "human organ" is defined to mean a human kidney, liver, heart, lung, pancreas, bone marrow, cornea, eye, bone, skin, or any other human organ specified by the department of health and family services by rule. "Valuable consideration" is defined *not* to include reasonable payment associated with the removal, transportation, implantation, processing, preservation, quality control, or storage of a human organ or expenses incurred by a human organ donor in connection with donation of the human organ.

This bill prohibits the knowing acquisition, receipt, other transfer, or use, for purposes of research, of a stem cell or stem cell line in existence after December 31, 2001, or of a fetal body part or embryo, regardless of whether the acquisition, receipt, other transfer, or use was for valuable consideration or not. "Fetal body part," "embryo," "stem cell," and "stem cell line" are defined in the bill. The bill expressly permits the acquisition, receipt, other transfer, or use, for purposes of research, of a stem cell or stem cell line that was in existence before January 1, 2002, if the acquisition, receipt, other transfer, or use was not for valuable consideration.

BILL

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Currently, federal law prohibits the knowing acquisition, receipt, or other transfer of fetal tissue for valuable consideration, if the transfer affects interstate commerce. This bill expands the definition of "human organ" to include a fetal body part and thereby expressly prohibits the knowing acquisition, receipt, or other transfer of fetal body parts for valuable consideration.

For further information see the state and local fiscal estimate, which will be

printed as an appendix to this bill.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

28485b SECTION #. 146.345 (title) of the statutes is amended to read:

> 146.345 (title) Sale Use of fetal body parts, embryos, stem cells, and stem cell lines for research; sale of human organs prohibited; prohibitions.

> 28485C SECTION 2. 146.345 (1) (a) of the statutes is renumbered 146.345 (1) (am) and amended to read:

> 146.345 (1) (am) "Human organ" means a human kidney, liver, heart, lung, pancreas, bone marrow, cornea, eye, bone or, skin, fetal body part, or any other human organ specified by the department by rule. "Human organ" does not mean human whole blood, blood plasma, a blood product or a blood derivative, or human semen. 28485d

SECTION 4. 146.345 (1) (ad) of the statutes is created to read:

146.345 (1) (ad) "Embryo" means a developing human organization from the point of fertilization, including the single-cell stage, until approximately the end of the 2nd month, that is not a fetal body part.

12848 se) SECTION 4. 146.345 (1) (ah) of the statutes is created to read:

146.345 (1) (ah) "Fetal body part" means a cell, tissue, organ, or other part of a human being after fertilization who is aborted by an induced abortion.

(2848sf) SECTION (146.345 (1) (bg) of the statutes is created to read:

BILL

1	146.345 (1) (bg) "Stem cell" means an unspecialized cell of the human body that
2	is derived from an embryo and that has the ability to give rise to differentiated cells.
3	SECTION 6. 146.345 (1) (br) of the statutes is created to read:
4	146.345 (1) (br) "Stem cell line" means cells that are derived from stem cells;
5	that are capable of prolonged, undifferentiated proliferation in culture; and that
6	maintain the ability to develop into a variety of human cell types, including neural,
7	gut, muscle, bone, and cartilage cells.
(8)	SECTION 146.345 (1) (c) of the statutes is renumbered 146.345 (1) (c) 1g. and
9	amended to read:
10	146.345 (1) (c) 1g. "Valuable consideration"," for purposes of subs. (2) and (2g),
11	does not include reasonable payment associated with the removal, transportation,
12	implantation, processing, preservation, quality control, or storage of a human organ
13	or an expense of travel, housing, or lost wages incurred by a human organ donor in
14	connection with donation of the human organ.
15	SECTION 6. 146.345 (1) (c) 1r. of the statutes is created to read:
16	146.345 (1) (c) 1r. "Valuable consideration," for purposes of subs. (2m) and (2r),
17	does not include reasonable payment associated with the removal, transportation,
18	implantation, processing, preservation, quality control, or storage of an embryo, a
19	stem cell, or a stem cell line.
20	SECTION 2. 146.345 (2g) of the statutes is created to read:
21	146.345 (2g) No person may knowingly acquire, receive, or otherwise transfer
22	or use a fetal body part for purposes of research, regardless of whether the
23	acquisition, receipt, or other transfer or use is for valuable consideration or not.
24	SECTION 146.345 (2m) of the statutes is created to read:

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146.345 (2m) Except as provided in sub. (2r), no person may knowingly
acquire, receive, or otherwise transfer or use an embryo, a stem cell, or a stem cell
line for purposes of research, regardless of whether the acquisition, receipt, or other
transfer or use is for valuable consideration or not.
SECTION 14. 146.345 (2r) of the statutes is created to read:
146.345 (2r) A person may, at any time, acquire, receive, or otherwise transfer
or use, for purposes of research, a stem cell or stem cell line that exists before January
1, 2002, if the acquisition, receipt, other transfer or use is not for valuable consideration

Z(END)

Nonstat File Sequence: E E E

LRB	-	/	
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INITIAL APPLICABILITY

# Pace	r is needed. Below, for the budget, fill in the 9300 department code.
SECTION #	399, line 20: after that line wiset: [93] Initial applicability:
	service de la constant de la constan
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- FETAL 1900Y	The freatment of sections
10 545 CW), (1)(a), (ad), (ah), (bg), (br), municonaramin
(.dg.), (2m)	, and (2v) of the statistics, the renumbering and amendmen
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In the component I For the action ph For the text, exec Nonstatutory subu	(c) of the statutes and the custion of section 196.395 (1) (C) (r) of the statutes of the

D-NOTE

STATE OF WISCONSIN – LEGISLATIVE REFERENCE BUREAU – LEGAL SEC (608–266–3561)	1 (10
	LRC BURN / PAR
D-NOTE	DAK Jemb
I added to this draft an initial a	pplicability
to indicate more clearly that the proh	elutions
V	
apply on the act's effective date.	Please review.
·	7
DAK	
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DRAFTER'S NOTE FROM THE LEGISLATIVE REFERENCE BUREAU

LRBb1721/1dn DAK:cmh:rs

June 25, 2001

I added to this draft an initial applicability to indicate more clearly that the prohibitions apply on the act's effective date. Please review.

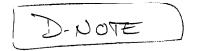
Debora A. Kennedy Managing Attorney Phone: (608) 266–0137

E-mail: debora.kennedy@legis.state.wi.us



Sood State of Misconsin 2001 - 2002 LEGISLATURE

LRBb1721/1/2 DAK;cmh:



ARC:.....Hughes – AM107 Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research and prohibit sale of fetal body parts

FOR 2001-03 BUDGET — NOT READY FOR INTRODUCTION

CAUCUS ASSEMBLY AMENDMENT TO ASSEMBLY SUBSTITUTE AMENDMENT 1, TO 2001 SENATE BILL 55

1	At the locations indicated, amend the substitute amendment as follows:
2	1. Page 945, line 25: after that line insert:
3	"Section 2848sb. 146.345 (title) of the statutes is amended to read:
4	146.345 (title) Sale Use of fetal body parts, embryos, stem cells, and stem
5	cell lines for research; sale of human organs prohibited; prohibitions.
6	SECTION 2848sc. 146.345 (1) (a) of the statutes is renumbered 146.345 (1) (am)
7	and amended to read:
8	146.345 (1) (am) "Human organ" means a human kidney, liver, heart, lung,
9	pancreas, bone marrow, cornea, eye, bone er, skin, fetal body part, or any other

1	human organ specified by the department by rule. "Human organ" does not mean
2	human whole blood, blood plasma, a blood product or a blood derivative, or human
3	semen. Organism
4	SECTION 2848sd. 146.345 (1) (ad) of the statutes is created to read:
(5)	146.345 (1) (ad) "Embryo" means a developing human from the
6	point of fertilization, including the single-cell stage, until approximately the end of
7	the 2nd month, that is not a fetal body part.
8	SECTION 2848se. 146.345 (1) (ah) of the statutes is created to read:
9	146.345 (1) (ah) "Fetal body part" means a cell, tissue, organ, or other part of
10	a human being after fertilization who is aborted by an induced abortion.
11	SECTION 2848sf. 146.345 (1) (bg) of the statutes is created to read:
12	146.345 (1) (bg) "Stem cell" means an unspecialized cell of the human body that
13	is derived from an embryo and that has the ability to give rise to differentiated cells.
14	SECTION 2848sg. 146.345 (1) (br) of the statutes is created to read:
15	146.345 (1) (br) "Stem cell line" means cells that are derived from stem cells;
16	that are capable of prolonged, undifferentiated proliferation in culture; and that
17	maintain the ability to develop into a variety of human cell types, including neural,
18	gut, muscle, bone, and cartilage cells.
19	SECTION 2848sh. 146.345 (1) (c) of the statutes is renumbered 146.345 (1) (c)
20	1g. and amended to read:
21	146.345 (1) (c) 1g. "Valuable consideration"," for purposes of subs. (2) and (2g),
22	does not include reasonable payment associated with the removal, transportation,
23	implantation, processing, preservation, quality control, or storage of a human organ
24	or an expense of travel, housing, or lost wages incurred by a human organ donor in
25	connection with donation of the human organ.

1	SECTION 2848si. 146.345 (1) (c) 1r. of the statutes is created to read:
2	146.345 (1) (c) 1r. "Valuable consideration," for purposes of subs. (2m) and (2r),
3	does not include reasonable payment associated with the removal, transportation,
4	implantation, processing, preservation, quality control, or storage of an embryo, a
5	stem cell, or a stem cell line.
6	SECTION 2848sj. 146.345 (2g) of the statutes is created to read:
7	146.345 (2g) No person may knowingly acquire, receive, or otherwise transfer
8	or use a fetal body part for purposes of research, regardless of whether the
9	acquisition, receipt, or other transfer or use is for valuable consideration or not.
10	SECTION 2848sk. 146.345 (2m) of the statutes is created to read:
11	146.345 (2m) Except as provided in sub. (2r), no person may knowingly
12	acquire, receive, or otherwise transfer or use an embryo, a stem cell, or a stem cell
13	line for purposes of research, regardless of whether the acquisition, receipt, or other
14	transfer or use is for valuable consideration or not.
15	SECTION 2848sL. 146.345 (2r) of the statutes is created to read:
16	146.345 (2r) A person may, at any time, acquire, receive, or otherwise transfer
17	or use, for purposes of research, a stem cell or stem cell line that exists before January
18	1, 2002, if the acquisition, receipt, other transfer or use is not for valuable
19	consideration.".
20	2. Page 1399, line 20: after that line insert:
21	"(16m) Acquisition, receipt, other transfer, or use of fetal body parts, stem
22	CELLS AND STEM CELL LINES. The treatment of sections 146.345 (title), (1) (a), (ad), (ah),
23	(bg), and (br), (2g), (2m), and (2r) of the statutes, the renumbering and amendment
24	of section 146.345 (1) (c) of the statutes, and the creation of section 146.345 (1) (c) 1r.

- of the statutes first apply to the acquisition, receipt, other transfer, or use of a fetal
- body part, stem cell, or stem cell line on the effective date of this subsection.".

3 (END)

D-NOTE

STATE OF WISCONSIN – **LEGISLATIVE REFERENCE BUREAU** – LEGAL SECTION (608–266–3561)

To Carolyn Hughes:
for the second s
9 This redrapt correcte 3. 146. 345(1) (ad)
(the definition of "embryo"), to use the term
of the define
"human organism", nather Hran" human
organization"
DAK
·

LRBb1721/2dn DAK:cmh:rs

DRAFTER'S NOTE FROM THE LEGISLATIVE REFERENCE BUREAU

June 26, 2001

To Carolyn Hughes:

This redraft corrects s. 146.345 (1) (ad) (the definition of "embryo"), to use the term "human organism," rather than "human organization."

Debora A. Kennedy Managing Attorney Phone: (608) 266-0137

E-mail: debora.kennedy@legis.state.wi.us

Kennedy, Debora

From:

Hughes, Carolyn

Sent:

Wednesday, June 27, 2001 1:32 PM

To:

Kennedy, Debora

Subject:

FW: LRB Draft: 01b1721/2 Prohibit use of fetal body parts, embryos, and certain stem cells

and stem cell lines for research and prohibit sale of fetal body parts

Here are changes to this draft...

----Original Message--

From:

Southworth, Scott

Sent:

Wednesday, June 27, 2001 1:31 PM

To:

Hughes, Carolyn

Subject:

RE: LRB Draft: 01b1721/2 Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research and

prohibit sale of fetal body parts

Carolyn,

Attached you will find a re-draft of the entire research ban issue - the current draft makes the issue a part of section 146.345 of the statutes. Although this is the statute section we used last session for the body parts trafficking bill (ergo, the reason Debora likely utilized it), it's EXTREMELY confusing for purposes of a ban on research, and clouds the trafficking of human organs issue covered by 146.345. It took us an inordinate amount of time to figure out all of the cross-sections, references, etc.

To that end, the attached draft pulls out the basic language Debora utilized that is pertinent to the ban we're seeking, modifies a bit based, in part, on information I've received this morning from a researcher on some of the technical aspects, and places all of the language neatly in a new statute section (146.32). Debora may wish to utilize a different statute number (146.305, for example); she may also have some ideas on ways to improve what I've drafted here. However, I would like to keep the provisions in chapter 146, preferably near 146.345.

If you have any questions, please call me at 266-8531. Thanks for your patience on this one!

Scott

Attorney Scott Harold Southworth **Budget Policy Analyst** Office of State Representative Sheryl K. Albers



----Original Message----From: Hughes, Carolyn

Sent:

Tuesday, June 26, 2001 1:55 PM

To:

Southworth, Scott

Subject:

FW: LRB Draft: 01b1721/2 Prohibit use of fetal body parts, embryos, and certain stem cells and

stem cell lines for research and prohibit sale of fetal body parts

This has changes to the first draft. Please let me know if more changes are necessary or if it is drafted to your satisfaction.

Thanks!

----Original Message-From: Schlueter, Ron

Sent: Tuesday, June 26, 2001 11:15 AM

To: Hughes, Carolyn

Legislative Fiscal Bureau; Hanaman, Cathlene; Haugen, Caroline Cc:

Subject: LRB Draft: 01b1721/2 Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research and prohibit sale of fetal body parts

1

Following is the PDF version of draft 01b1721/2.

<< File: 01b1721/2 >> << File: 01b1721/2dn >>

Draft Budget Language for the Ban on the Use of Fetal Body Parts and Human Embryos

June 27, 2001
Attorney Scott Harold Southworth, Office of State Representative Sheryl K. Albers

SECTION 1. 146.32 (title) of the statutes is created to read:

146.32 (title) Use of fetal body parts, human embryos, human embryonic stem cells and human embryonic stem cell lines for research prohibited.

SECTION 2. 146.32 (1) is created to read:

146.32 (1) In this section:

- (a) "Fetal body part" means a cell, tissue, organ, or other part of a human being after fertilization who is aborted by an induced abortion.
- (b) "Human embryo" means a human being from the point of fertilization, including the single-cell state, until approximately the end of the 2nd month.
- (c) "Human embryonic stem cell" means a totipotent or pluripotent cell of the human body that is derived from a human embryo and that has the ability to give rise to differentiated cells or other stem cells.
- (d) "Human embryonic stem cell line" means human embryonic stem cells that are capable of prolonged proliferation in culture as totipotent or pluripotent human embryonic stem cells; and that maintain the ability to develop into a variety of human cell types, including neural, gut, muscle, cartilage and pancreatic.

SECTION 3. 146.32 (2) of the statutes is created to read:

146.32 (2) Except as provided in sub. (3), no person may knowingly use a fetal body part, a human embryo, a human embryonic stem cell, or a human embryonic stem cell line for purposes of research.

SECTION 4. 146.32 (3) of the statutes is created to read:

146.32 (3) A person may, at any time, use, for research purposes, a human embryonic stem cell or a human embryonic stem cell line that exists before January 1, 2002, or a human embryonic stem cell line created from a human embryonic stem cell that exists before January 1, 2002.

SECTION 5. 146.32 (4) of the statutes is created to read:

146.32 (4) Any person who violates this section may be fined not more than \$50,000 or imprisoned for not more than 7 years and 6 months, or both.

NATIONAL INSTITUTES OF HEALTH May 2000

Office of the Director

Stem Cells: A Primer

This primer presents background information on stem cells. It includes an explanation of what stem cells are; what pluripotent stem cells are; how pluripotent stem cells are derived; why pluripotent stem cells are important to science; why they hold such great promise for advances in health care; and what adult stem cells are.

Recent published reports on the isolation and successful culturing of the first human pluripotent stem cell lines have generated great excitement and have brought biomedical research to the edge of a new frontier. The development of these human pluripotent stem cell lines deserves close scientific examination, evaluation of the promise for new therapies, and prevention strategies, and open discussion of the ethical issues.

In order to understand the importance of this discovery as well as the related scientific, medical, and ethical issues, it is absolutely essential to first clarify the terms and definitions.

Definitions

DNA - abbreviation for deoxyribonucleic acid which makes up genes.

Gene - a functional unit of heredity which is a segment of DNA located in a specific site on a chromosome. A gene directs the formation of an enzyme or other protein.

Somatic cell - cell of the body other than egg or sperm.

Somatic cell nuclear transfer - the transfer of a cell nucleus from a somatic cell into an egg from which the nucleus has been removed.

Stem cells - cells that have the ability to divide for indefinite periods in culture and to give rise to specialized cells.

Pluripotent -capable of giving rise to most tissues of an organism.

Totipotent - having unlimited capability. Totipotent cells have the capacity to specialize into extraembryonic membranes and tissues, the embryo, and all postembryonic tissues and organs.

What is a stem cell?

Stem cells have the ability to divide for indefinite periods in culture and to give rise to specialized cells. They are best described in the context of normal human development. Human development begins when a sperm fertilizes an egg and creates a single cell that has the potential to form an entire organism. This fertilized egg is **totipotent**, meaning that its potential is total. In the first hours after fertilization, this cell divides into identical totipotent cells. (Figure I) This means that either one of these cells, if placed into a woman's uterus, has the potential to develop into a fetus. In fact, identical twins develop when two totipotent cells separate and develop into two individual, genetically identical human beings. Approximately four days after fertilization and after several cycles of cell division, these totipotent cells begin to specialize, forming a hollow sphere of cells, called a blastocyst. The blastocyst has an outer layer of cells and inside the hollow sphere, there is a cluster of cells called the inner cell mass.

The outer layer of cells will go on to form the placenta and other supporting tissues needed for fetal development in the uterus. The inner cell mass cells will go on to form virtually all of the tissues of the human body. Although the inner cell mass cells can form virtually every type of cell found in the human body, they cannot form an organism because they are unable to give rise to the placenta and supporting tissues necessary for development in the human uterus. These inner

cell mass cells are **pluripotent** — they can give rise to many types of cells but not all types of cells necessary for fetal development. Because their potential is not total, they are not totipotent and they are not embryos. In fact, if an inner cell mass cell were placed into a woman's uterus, it would not develop into a fetus.

The pluripotent stem cells undergo further specialization into stem cells that are committed to give rise to cells that have a particular function. Examples of this include blood stem cells which give rise to red blood cells, white blood cells and platelets; and skin stem cells that give rise to the various types of skin cells. These more specialized stem cells are called **multipotent**. (Figure II)

While stem cells are extraordinarily important in early human development, multipotent stem cells are also found in children and adults. For example, consider one of the best understood stem cells, the blood stem cell. Blood stem cells reside in the bone marrow of every child and adult, and in fact, they can be found in very small numbers circulating in the blood stream. Blood stem cells perform the critical role of continually replenishing our supply of blood cells — red blood cells, white blood cells, and platelets — throughout life. A person cannot survive without blood stem cells.

How are pluripotent stem cells derived?

At present, human pluripotent cell lines have been developed from two sources¹ with methods previously developed in work with animal models.

- (1) In the work done by Dr. Thomson, pluripotent stem cells were isolated directly from the inner cell mass of human embryos at the blastocyst stage. Dr. Thomson received embryos from IVF (In Vitro Fertilization) clinics-these embryos were in excess of the clinical need for infertility treatment. The embryos were made for purposes of reproduction, not research. Informed consent was obtained from the donor couples. Dr. Thomson isolated the inner cell mass (see Figure III) and cultured these cells producing a pluripotent stem cell line.
- (2) In contrast, Dr. Gearhart isolated pluripotent stem cells from fetal tissue obtained from terminated pregnancies. Informed consent was obtained from the donors after they had independently made the decision to terminate their pregnancy. Dr. Gearhart took cells from the region of the fetus that was destined to develop into the testes or the ovaries. Although the cells developed in Dr. Gearhart's lab and Dr. Thomson's lab were derived from different sources, they appear to be very similar. (Figure III)

The use of somatic cell nuclear transfer (SCNT) may be another way that pluripotent stem cells could be isolated. In studies with animals using SCNT, researchers take a normal animal egg cell and remove the nucleus (cell structure containing the chromosomes). The material left behind in the egg cell contains nutrients and other energy-producing materials that are essential for embryo development. Then, using carefully worked out laboratory conditions, a somatic cell - any cell other than an egg or a sperm cell - is placed next to the egg from which the nucleus had been removed, and the two are fused. The resulting fused cell, and its immediate descendants, are believed to have the full potential to develop into an entire animal, and hence are totipotent. As described in Figure I, these totipotent cells will soon form a blastocyst. Cells from the inner cell mass of this blastocyst could, in theory, be used to develop pluripotent stem cell lines. Indeed, any method by which a human blastocyst is formed could potentially serve as a source of human pluripotent stem cells (Figure IV).

Potential Applications of Pluripotent Stem Cells

There are several important reasons why the isolation of human pluripotent stem cells is important to science and to advances in health care (Figure V). At the most fundamental level, pluripotent stem cells could help us to understand the complex events that occur during human development. A primary goal of this work would be the identification of the factors involved in the cellular decision-making process that results in cell specialization. We know that turning genes on and off is central to this process, but we do not know much about these "decision-making" genes or what turns them on or off. Some of our most serious medical conditions, such as cancer and birth defects, are due to abnormal cell specialization and cell division. A better understanding of normal cell processes will allow us to further delineate the fundamental errors that cause these often deadly illnesses.

Human pluripotent stem cell research could also dramatically change the way we develop drugs and test them for safety. For example, new medications could be initially tested using human cell lines. Cell lines are currently used in this way (for example cancer cells). Pluripotent stem cells would allow testing in more cell types. This would not replace testing in whole animals and testing in human beings, but it would streamline the process of drug development. Only the drugs that are both safe and appear to have a beneficial effect in cell line testing would graduate to further testing in laboratory animals and human subjects.

Perhaps the most far-reaching potential application of human pluripotent stem cells is the generation of cells and tissue that could be used for so-called "cell therapies." Many diseases and disorders result from disruption of cellular function or destruction of tissues of the body. Today, donated organs and tissues are often used to replace ailing or destroyed tissue. Unfortunately, the number of people suffering from these disorders far outstrips the number of organs available for transplantation. Pluripotent stem cells, stimulated to develop into specialized cells, offer the possibility of a renewable source of replacement cells and tissue to treat a myriad of diseases, conditions, and disabilities including Parkinson's and Alzheimer's diseases, spinal cord injury, stroke, burns, heart disease, diabetes, osteoarthritis and rheumatoid arthritis. There is almost no realm of medicine that might not be touched by this innovation. Some details of two of these examples follow.

- o Transplant of healthy heart muscle cells could provide new hope for patients with chronic heart disease whose hearts can no longer pump adequately. The hope is to develop heart muscle cells from human pluripotent stem cells and transplant them into the failing heart muscle in order to augment the function of the failing heart. Preliminary work in mice and other animals has demonstrated that healthy heart muscle cells transplanted into the heart successfully repopulate the heart tissue and work together with the host cells. These experiments show that this type of transplantation is feasible.
- o In the many individuals who suffer from Type I diabetes, the production of insulin by specialized pancreatic cells, called islet cells, is disrupted. There is evidence that transplantation of either the entire pancreas or isolated islet cells could mitigate the need for insulin injections. Islet cell lines derived from human pluripotent stem cells could be used for diabetes research and, ultimately, for transplantation.

While this research shows extraordinary promise, there is much to be done before we can realize these innovations. Technological challenges remain before these discoveries can be incorporated into clinical practice. These challenges, though significant, are not insurmountable.

First, we must do the basic research to understand the cellular events that lead to cell specialization in the human, so that we can direct these pluripotent stem cells to become the type (s) of tissue needed for transplantation.

Second, before we can use these cells for transplantation, we must overcome the well-known problem of immune rejection. Because human pluripotent stem cells derived from embryos or fetal tissue would be genetically different from the recipient, future research would need to focus on modifying human pluripotent stem cells to minimize tissue incompatibility or to create tissue banks with the most common tissue-type profiles.

The use of somatic cell nuclear transfer (SCNT) would be another way to overcome the problem of tissue incompatibility for some patients. For example, consider a person with progressive heart failure. Using SCNT, the nucleus of virtually any somatic cell from that patient could be fused with a donor egg cell from which the nucleus had been removed. With proper stimulation the cell would develop into a blastocyst: cells from the inner cell mass could be taken to create a culture of pluripotent cells. These cells could then be stimulated to develop into heart muscle cells. Because the vast majority of genetic information is contained in the nucleus, these cells would be essentially identical genetically to the person with the failing heart. When these heart muscle cells were transplanted back into the patient, there would likely be no rejection and no need to expose the patient to immune-suppressing drugs, which can have toxic effects.

Adult Stem Cells

As noted earlier, multipotent stem cells can be found in some types of adult tissue. In fact, stem cells are needed to replenish the supply cells in our body that normally wear out. An example, which was mentioned previously, is the blood stem cell.

Multipotent stem cells have not been found for all types of adult tissue, but discoveries in this area of research are increasing. For example, until recently, it was thought that stem cells were not present in the adult nervous system, but, in recent years, neuronal stem cells have been isolated from the rat and mouse nervous systems. The experience in humans is more limited. In humans, neuronal stem cells have been isolated from fetal tissue and a kind of cell that may be a neuronal stem cell has been isolated from adult brain tissue that was surgically removed for the treatment of epilepsy.

Do adult stem cells have the same potential as pluripotent stem cells?

Until recently, there was little evidence in mammals that multipotent cells such as blood stem cells could change course and produce skin cells, liver cells or any cell other than a blood stem cell or a specific type of blood cell; however, research in animals is leading scientists to question this view.

In animals, it has been shown that some adult stem cells previously thought to be committed to the development of one line of specialized cells are able to develop into other types of specialized cells. For example, recent experiments in mice suggest that when neural stem cells were placed into the bone marrow, they appeared to produce a variety of blood cell types. In addition, studies with rats have indicated that stem cells found in the bone marrow were able to produce liver cells. These exciting findings suggest that even after a stem cell has begun to specialize, the stem cell may, under certain conditions, be more flexible than first thought. At this time, demonstration of the flexibility of adult stem cells has been only observed in animals and limited to a few tissue types.

Why not just pursue research with adult stem cells?

Research on human adult stem cells suggests that these multipotent cells have great potential for use in both research and in the development of cell therapies. For example, there would be many advantages to using adult stem cells for transplantation. If we could isolate the adult stem cells from a patient, coax them to divide and direct their specialization and then transplant them back into the patient, it is unlikely that such cells would be rejected. The use of adult stem cells for such cell therapies would certainly reduce or even avoid the practice of using stem cells that were derived from human embryos or human fetal tissue, sources that trouble many people on ethical grounds.

While adult stem cells hold real promise, there are some significant limitations to what we may or may not be able to accomplish with them. First of all, stem cells from adults have not been isolated for all tissues of the body. Although many different kinds of multipotent stem cells have been identified, adult stem cells for all cell and tissue types have not yet been found in the adult human. For example, we have not located adult cardiac stem cells or adult pancreatic islet stem cells in humans.

Secondly, adult stem cells are often present in only minute quantities, are difficult to isolate and purify, and their numbers may decrease with age. For example, brain cells from adults that may be neuronal stem cells have only been obtained by removing a portion of the brain of epileptics, not a trivial procedure.

Any attempt to use stem cells from a patient's own body for treatment would require that stem cells would first have to be isolated from the patient and then grown in culture in sufficient numbers to obtain adequate quantities for treatment. For some acute disorders, there may not be enough time to grow enough cells to use for treatment. In other disorders, caused by a genetic defect, the genetic error would likely be present in the patient's stem cells. Cells from such a patient may not be appropriate for transplantation. There is evidence that stem cells from adults may have not have the same capacity to proliferate as younger cells do. In addition, adult stem cells may contain more DNA abnormalities, caused by exposure to daily living, including sunlight, toxins, and by expected errors made in DNA replication during the course of a lifetime. These potential weaknesses could limit the usefulness of adult stem cells.

Research on the early stages of cell specialization may not be possible with adult stem cells since they appear to be farther along the specialization pathway than pluripotent stem cells. In addition, one adult stem cell line may be able to form several, perhaps 3 or 4, tissue types, but there is no clear evidence that stem cells from adults, human or animal, are pluripotent. In fact, there is no evidence that adult stem cells have the broad potential characteristic of pluripotent stem cells. In order to determine the very best source of many of the specialized cells and tissues of the body for new treatments and even cures, it will be vitally important to study the developmental potential of adult stem cells and compare it to that of pluripotent stem cells.

Summary

Given the enormous promise of stem cells to the development of new therapies for the most devastating diseases, it is important to simultaneously pursue all lines of research. Science and scientists need to search for the very best sources of these cells. When they are identified, regardless of their sources, researchers will use them to pursue the development of new cell therapies.

The development of stem cell lines, both pluripotent and multipotent, that may produce many tissues of the human body is an important scientific breakthrough. It is not too unrealistic to say that this research has the potential to revolutionize the practice of medicine and improve the quality and length of life.

James Thomson, et al, Embryonic stem cell lines derived from human blastocysts. Science, 282: 1145-1147, Nov. 6, 1998.

¹ Michael Shamblott, *et al*, Derivation of pluripotent stem cells from cultured human primordial germ cells. *PNAS*, 95: 13726-13731, Nov. 1998.

[NOW]

2001 – 2002 LEGISLATURE

LRBb1721/2 3
DAK:cmh:rs

ARC:.....Hughes – AM107 Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research and prohibit sole of fetal body parts

FOR 2001-03 BUDGET — NOT READY FOR INTRODUCTION

CAUCUS ASSEMBLY AMENDMENT

TO ASSEMBLY SUBSTITUTE AMENDMENT 1,

TO 2001 SENATE BILL 55

At the locations indicated, amend the substitute amendment as follows:

1. Page 945, line 25: after that line insert:

"Secrior 2848sb. 146.345 (title) of the statutes is amended to read:

146.345 (title) Sale Use of fetal body parts, embryos, stem cells, and stem

5 cell lines for research; sale of human organs prohibited; prohibitions.

6 SECTION 2848sc. 146.345 (1) (a) of the statutes is renumbered 146.345 (1) (am)

7 and amended to read:

8 146.345 (1) (am) "Human organ" means a human kidney, liver, heart, lung, pancreas, bone marrow, cornea, eye, bone er, skin, fetal body part, or any other

	, and the same of
1	human organ specified by the department by rule. "Human organ" does not mean
2	human whole blood, blood plasma, a blood product or a blood derivative, or human
3	semen.
4	SECTION 2848sd. 146.345 (1) (ad) of the statutes is created to read:
5	146.345 (1) (ad) "Embryo" means a developing human organism from the point
6	of fertilization, including the single-cell stage, until approximately the end of the
7	2nd month, that is not a fetal body part.
8	SECTION 2848se. 146.345 (1) (ah) of the statutes is created to read:
9	146.345 (1) (ah) "Fetal body part" means a cell, tissue, organ, or other part of
10	a human being after fertilization who is aborted by an induced abortion.
11	SECTION 2848sf. 146.345 (1) (bg) of the statutes is created to read:
12	146.345 (1) (bg) "Stem cell" means an unspecialized cell of the human body that
13	is derived from an embryo and that has the ability to give rise to differentiated cells.
14	SECTION 2848sg. 146.345 (1) (br) of the statutes is created to read:
15	146.345 (1) (br) "Stem cell line" means cells that are derived from stem cells;
16	that are capable of prolonged, undifferentiated proliferation in culture; and that
17	maintain the ability to develop into a variety of human cell types, including neural,
18	gut, muscle, bone, and cartalage cells.
19	SECTION 2848sh. 146.345 (1) (c) of the statutes is renumbered 146.345 (1) (c)
20	1g. and amended to read:
21	146.345 (1) (c) 1g. "Valuable consideration"," for purposes of subs. (2) and (2g),
22	does not include reasonable payment associated with the removal, transportation,
23	implantation, processing, preservation, quality control, or storage of a human organ
24	or an expense of travel, housing, or lost wages incurred by a human organ donor in
25	connection with donation of the human organ.

1	SECTION 2848si. 146.345 (1) (c) 1r. of the statutes is created to read:
2	146.345 (1) (c) 1r. "Valuable consideration," for purposes of subs. $(2m)$ and $(2r)$,
3	does not include reasonable payment associated with the removal, transportation,
4	implantation, processing, preservation, quality control, or storage of an embryo, a
5	stem cell, or a stem cell line.
6	SECTION 2848sj. 146.345 (2g) of the statutes is created to read:
7	146.345 (2g) No person may knowingly acquire, receive, or otherwise transfer
8	or use a fetal body part for purposes of research regardless of whether the
9	acquisition, receipt, or other transfer or use is for valuable consideration or not.
10	SECTION 2848sk. 146.345 (2m) of the statutes is created to read:
11	146.345 (2m) Except as provided in sub. (2r), no person may knowingly
12	acquire, receive, or otherwise transfer or use an embryo, a stem cell, or a stem cell
13	line for purposes of research, regardless of whether the acquisition, receipt, or other
14	transfer or use is for valuable consideration or not.
15	SECTION 2848sL. 146.345 (2r) of the statutes is created to read:
16	146.345 (2r) A person may, at any time, acquire, receive, or otherwise transfer
17	or use, for purposes of research, a stem cell or stem cell line that exists before January
18	1, 2002, if the acquisition, receipt, other transfer or use is not for valuable
19	consideration.".
20	2. Page 1399, line 20: after that line insert:
21	"(16m) ACQUISITION RECEIPT OF HERZTRANSMER OF THE STEAD BODY PARTS, STEM
22	CELLS AND STEM CELL LINES. The treatment of section (1242), (124), (124), (ald),
237	(bg), and (br) 12g), (2m), and (2r) of the statutes, the renumbering and amendment
2/4	of section 146.345 (1) (c) of the statutes, and the creation of section 146.345(1) (c) 12

of the statutes first apply to the requisition, receipt, other transferon use of a fetal body part, stem cell, or stem cell line on the effective date of this subsection.".

(END)

Draft Budget Language for the Ban on the Use of Fetal Body Parts and Human Embryos

June 27, 2001

Attorney Scott Harold Southworth, Office of State Representative Sheryl K. Albers

SECTION 1. 146.343

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Use of fetal body parts, binnan embryos, human embryon

43 146.32 (Use of fetal body parts, human embryonic stem cells and human embryonic stem cell lines for research prohibited.)

SECTION 2 P46.32 (1) Its Freshed to Bad;

> 14632 (1) In this section:

- (a) "Fetal body part" means a cell, tissue, organ, or other part of a human being after fertilization who is aborted by an induced abortion.
- (b) "Handan embryo" means a human being from the point of fertilization, including the single-cell state, until approximately the end of the 2nd month.
- (c) "Henrich embryonic stem cell" means a totipotent or pluripotent cell of the human body that is derived from whyman embryo and that has the ability to give rise to differentiated cells or other stem cells.
- (d) "White embryonic stem cell line" means with embryonic stem cells that are capable of prolonged proliferation in culture as totipotent or pluripotent kanan embryonic stem cells and that maintain the ability to develop into a variety of human cell types, including neutral, gut myscle, cartilage and pancients.

SECTION 3 2148,327(2) of the statutes is created to read,

part, a human embryo, a human embryonic stem cell, or a human embryonic stem cell line for purposes of research.

SECTION 14(32 B) Of the statutes is created to reads

stem cell or a human embryonic stem cell line that exists before January 1, 2002, or a human embryonic stem cell line deated from a human embryonic stem cell that exists before January 1, 2002.

SECTION \$11148.32 (4) of the statutes Is cheated to reach

Any person who violates this section may be fined not more than \$50,000 or imprisoned for not more than 7 years and 6 months, or both.

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STATE OF WISCONSIN – LEGISLATIVE REFERENCE BUREAU – LEGAL SECTION (608–266-3561)

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State of Misconsin 2001 - 2002 LEGISLATURE

LRBb1721/3 DAK:cmh&jld:ch

ARC:.....Hughes – AM107 Prohibit use of fetal body parts, embryos, and certain stem cells and stem cell lines for research

FOR 2001-03 BUDGET - NOT READY FOR INTRODUCTION

CAUCUS ASSEMBLY AMENDMENT

TO ASSEMBLY SUBSTITUTE AMENDMENT 1,

TO 2001 SENATE BILL 55

1	At the locations mulcated, amend the substitute amendment as follows:
2	1. Page 945, line 25: after that line insert:
3	"Section 2848sb. 146.343 of the statutes is created to read:
4	146.343 Use of human fetal body part, embryos, embryonic stem cells
5	and embryonic stem cell lines for research prohibited. (1) In this section:
6	(a) "Embryo" means a human being from the point of fertilization, including the
7	single-cell state, until approximately the end of the 2nd month.
8	(b) "Embryonic stem cell" means a totipotent or pluripotent cell of the human
9	body that is derived from an embryo.

1	(c) "Embryonic stem cell line" means embryonic stem cells that are capable of
2	prolonged proliferation in culture as totipotent or pluripotent embryonic stem cells.
3	(d) "Fetal body part" means a cell, tissue, organ, or other part of a human being
4	after fertilization who is aborted by an induced abortion.
5	(e) "Pluripotent" means capable of giving rise to most tissues of a human
6	organism.
7	(f) "Totipotent" means having the capacity to specialize into human
8	extraembryonic membranes and tissues, the human embryo, and all postembryonic
9	human tissues and organs.
10	(2) Except as provided in sub. (3), no person may knowingly use a fetal body
11	part, an embryo, an embryonic stem cell, or an embryonic stem cell line for purposes
12	of research.
13	(3) A person may, at any time, use, for research purposes, an embryonic stem
14	cell or an embryonic stem cell line that exists before January 1, 2002, or an embryonic
15	stem cell line derived from an embryonic stem cell that exists before January 1, 2002
16	(4) Any person who violates this section may be fined not more than \$50,000
17	or imprisoned for not more than 7 years and 6 months, or both.".
18	2. Page 1399, line 20: after that line insert:
19	"(16m) Use of fetal body parts, embryos, stem cells and stem cell lines for
20	RESEARCH. The treatment of section 146.343 of the statutes first applies to the use
21	of a fetal body part, embryo, stem cell, or stem cell line on the effective date of this

22

subsection.".