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By: Delegates Rosenberg, Hubbard, Nathan-Pulliam, Oaks, and

Pendergrass

Introduced and read first time: February 12, 2004 Assigned to: Health and Government Operations

A BILL ENTITLED

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2 Human Cloning Ban and Stem Cell Research Protection Act of 200
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- 3 FOR the purpose of prohibiting a person from conducting or attempting to conduct
- 4 human cloning; prohibiting a person from shipping products of nuclear
- 5 transplantation under certain circumstances; prohibiting a person from
- 6 exporting unfertilized blastocysts to certain countries; establishing certain
- 7 criminal and civil penalties; prohibiting somatic cell nuclei from being
- 8 transplanted in certain oocytes; prohibiting unfertilized blastocysts from being
- 9 maintained for more than a certain period of time; prohibiting oocytes from
- being used in nuclear transplantation research under certain circumstances;
- 11 prohibiting oocytes or unfertilized blastocysts from being acquired, received, or
- transferred for valuable consideration other than certain reimbursement costs;
- prohibiting nuclear transplantation from being conducted in certain
- laboratories; providing for the construction of certain provisions of this Act;
- defining certain terms; and generally relating to human cloning and stem cell
- 16 research.
- 17 BY adding to
- 18 Article Health General
- 19 Section 20-1001 through 20-1004 to be under the new subtitle "Subtitle 10.
- 20 Human Cloning Ban and Stem Cell Research Protection"
- 21 Annotated Code of Maryland
- 22 (2000 Replacement Volume and 2003 Supplement)
- Preamble 23
- 24 WHEREAS, An estimated 128,000,000 Americans suffer from the crippling
- 25 economic and psychological burden of chronic, degenerative, and acute diseases,
- 26 including diabetes, Parkinson's disease, cancer, and Alzheimer's disease; and
- 27 WHEREAS, The costs of treatment and lost productivity of chronic,
- 28 degenerative, and acute diseases in the United States constitute hundreds of billions
- 29 of dollars every year, and estimates of the economic costs of these diseases do not

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- 1 account for the extreme human loss and suffering associated with these conditions; 2 and
- 3 WHEREAS, Stem cell research offers immense promise for developing new
- 4 medical therapies for these debilitating diseases and could lead to unprecedented
- 5 treatments and potential cures for diabetes, Parkinson's disease, Alzheimer's disease,
- 6 cancer, and other diseases; and
- WHEREAS, The United States and the State of Maryland have historically
- 8 fostered open scientific inquiry and technological innovation, and this environment,
- 9 coupled with the commitment of public and private resources, has made the United
- 10 States the preeminent world leader in biomedicine and biotechnology; and
- WHEREAS, Maryland ranks third in the number of biotechnology companies in
- 12 the nation; and
- WHEREAS, The biotechnology industry is a key component of the State's
- 14 economy that provides employment in over 300 companies, a significant number of
- 15 which are engaged in stem cell research; and
- WHEREAS, The University of Maryland, Baltimore and The Johns Hopkins
- 17 University are also involved in stem cell research, with projects representing a
- 18 combined total of millions of dollars in public and private funding; and the State's
- 19 favorable research climate would be significantly diminished by limitations imposed
- 20 on stem cell research; and
- 21 WHEREAS, Stem cell research, including the use of embryonic stem cells for
- 22 medical research, raises significant ethical and policy concerns that must be carefully
- 23 considered; and
- 24 WHEREAS, Public policy on stem cell research must balance ethical and
- 25 medical considerations. The policy must be based on an understanding of the science
- 26 associated with stem cell research and grounded on a thorough consideration of the
- 27 ethical concerns regarding this research; and must be carefully crafted to ensure that
- 28 researchers have the tools necessary to fulfill the promise of stem cell research; now,
- 29 therefore,
- 30 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF
- 31 MARYLAND, That the Laws of Maryland read as follows:
- 32 Article Health General
- 33 SUBTITLE 10. HUMAN CLONING BAN AND STEM CELL RESEARCH PROTECTION.
- 34 20-1001.
- 35 (A) IN THIS SUBTITLE THE FOLLOWING WORDS HAVE THE MEANINGS
- 36 INDICATED.

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- 1 (B) "HUMAN CLONING" MEANS THE IMPLANTATION OR ATTEMPTED
- 2 IMPLANTATION OF THE PRODUCT OF NUCLEAR TRANSPLANTATION INTO A UTERUS
- 3 OR THE FUNCTIONAL EQUIVALENT OF A UTERUS.
- 4 (C) "HUMAN SOMATIC CELL" MEANS A HUMAN CELL OTHER THAN AN
- 5 UNFERTILIZED EGG OR SPERM CELL.
- 6 (D) "NUCLEAR TRANSPLANTATION" MEANS THE TRANSFER OF THE NUCLEUS
- 7 OF A HUMAN SOMATIC CELL INTO AN OOCYTE FROM WHICH THE NUCLEUS OR ALL
- 8 CHROMOSOMES HAVE BEEN OR WILL BE REMOVED OR RENDERED INERT.
- 9 (E) "NUCLEUS" MEANS THE CELL STRUCTURE THAT HOUSES CHROMOSOMES.
- 10 (F) "OOCYTE" MEANS THE FEMALE GERM CELL OR EGG.
- 11 (G) (1) "UNFERTILIZED BLASTOCYST" MEANS AN INTACT CELLULAR
- 12 STRUCTURE THAT IS THE PRODUCT OF NUCLEAR TRANSPLANTATION.
- 13 (2) "UNFERTILIZED BLASTOCYST" DOES NOT INCLUDE STEM CELLS,
- 14 OTHER CELLS, CELLULAR STRUCTURES, OR BIOLOGICAL PRODUCTS DERIVED FROM
- 15 AN INTACT CELLULAR STRUCTURE THAT IS THE PRODUCT OF NUCLEAR
- 16 TRANSPLANTATION.
- 17 20-1002.
- 18 THE PURPOSE OF THIS SUBTITLE IS TO:
- 19 (1) PROHIBIT HUMAN CLONING; AND
- 20 (2) PROTECT IMPORTANT AREAS OF MEDICAL RESEARCH, INCLUDING 21 STEM CELL RESEARCH.
- 22 20-1003.
- 23 (A) A PERSON MAY NOT:
- 24 (1) CONDUCT OR ATTEMPT TO CONDUCT HUMAN CLONING;
- 25 (2) SHIP A PRODUCT OF NUCLEAR TRANSPLANTATION TO OR FROM THE
- 26 STATE FOR THE PURPOSE OF HUMAN CLONING; OR
- 27 (3) EXPORT AN UNFERTILIZED BLASTOCYST TO A FOREIGN COUNTRY
- 28 THAT DOES NOT PROHIBIT HUMAN CLONING.
- 29 (B) (1) A PERSON WHO VIOLATES THIS SECTION IS GUILTY OF A FELONY
- 30 AND ON CONVICTION IS SUBJECT TO IMPRISONMENT NOT EXCEEDING 10 YEARS OR A
- 31 FINE NOT EXCEEDING \$200,000 OR BOTH.
- 32 (2) THE SECRETARY MAY ASSESS A CIVIL PENALTY AGAINST ANY
- 33 PERSON WHO VIOLATES THIS SECTION AS FOLLOWS:

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- 1 (I) IF THE VIOLATOR IS A CORPORATION, FIRM, CLINIC, HOSPITAL,
- 2 LABORATORY, OR RESEARCH FACILITY, THE CIVIL PENALTY MAY NOT EXCEED
- 3 \$1,000,000 OR THE APPLICABLE AMOUNT UNDER SUBPARAGRAPH (III) OF THIS
- 4 PARAGRAPH, WHICHEVER IS GREATER;
- 5 (II) IF THE VIOLATOR IS AN INDIVIDUAL, THE CIVIL PENALTY MAY
- 6 NOT EXCEED \$250,000 OR THE APPLICABLE AMOUNT UNDER SUBPARAGRAPH (III) OF
- 7 THIS PARAGRAPH, WHICHEVER IS GREATER; OR
- 8 (III) IF THE VIOLATOR DERIVES PECUNIARY GAIN FROM THE
- 9 TRANSACTION, THE CIVIL PENALTY MAY NOT EXCEED THREE TIMES THE GROSS
- 10 PECUNIARY GAIN RESULTING FROM THE VIOLATION.
- 11 (C) THE CIVIL PENALTIES SHALL BE PAID TO THE GENERAL FUND.
- 12 (D) IN THE EVENT OF THE FAILURE OF ANY PERSON TO PAY ANY PENALTY
- 13 ASSESSED UNDER THIS SECTION, A CIVIL ACTION FOR RECOVERY OF THE PENALTY
- 14 MAY BE BROUGHT BY THE STATE AGAINST THE PERSON.
- 15 (E) THIS SECTION MAY NOT BE CONSTRUED TO GIVE A PERSON A PRIVATE 16 RIGHT OF ACTION.
- 17 20-1004.
- 18 (A) (1) IN THIS SECTION THE FOLLOWING WORDS HAVE THE MEANINGS
- 19 INDICATED.
- 20 (2) (I) "DONATING" MEANS GIVING WITHOUT RECEIVING VALUABLE
- 21 CONSIDERATION.
- 22 (II) "VALUABLE CONSIDERATION" DOES NOT INCLUDE
- 23 REASONABLE PAYMENTS:
- 24 1. ASSOCIATED WITH THE TRANSPORTATION OF THE
- 25 DONOR, OR THE TRANSPORTATION, PROCESSING, PRESERVATION, OR STORAGE OF
- 26 AN OOCYTE OR THE PRODUCT OF NUCLEAR TRANSPLANTATION RESEARCH; OR
- 27 2. INTENDED TO COMPENSATE A DONOR OF ONE OR MORE
- 28 OOCYTES FOR THE MEDICAL COSTS ASSOCIATED WITH THE DONATION.
- 29 (3) "FERTILIZATION" MEANS THE FUSION OF AN OOCYTE CONTAINING A
- 30 HAPLOID NUCLEUS WITH A SPERM CELL.
- 31 (B) A SOMATIC CELL NUCLEUS MAY NOT BE TRANSPLANTED INTO AN OOCYTE
- 32 THAT HAS UNDERGONE OR WILL UNDERGO FERTILIZATION.
- 33 (C) AN UNFERTILIZED BLASTOCYST MAY NOT BE MAINTAINED INTACT FOR
- 34 MORE THAN 14 DAYS AFTER ITS FIRST CELL DIVISION, NOT INCLUDING ANY TIME
- 35 DURING WHICH THE UNFERTILIZED BLASTOCYST IS STORED AT TEMPERATURES
- 36 BELOW ZERO DEGREES CENTIGRADE.

- 1 (D) (1) IN ACCORDANCE WITH PARAGRAPH (2) OF THIS SUBSECTION, AN
- 2 OOCYTE MAY NOT BE USED IN NUCLEAR TRANSPLANTATION RESEARCH UNLESS THE
- 3 OOCYTE WAS DONATED VOLUNTARILY BY AND WITH THE INFORMED CONSENT OF
- 4 THE WOMAN DONATING THE OOCYTE.
- 5 (2) AN OOCYTE OR UNFERTILIZED BLASTOCYST MAY NOT BE ACQUIRED,
- 6 RECEIVED, OR OTHERWISE TRANSFERRED FOR VALUABLE CONSIDERATION OTHER
- 7 THAN REIMBURSEMENT FOR STORAGE OR TRANSPORTATION COSTS.
- 8 (E) NUCLEAR TRANSPLANTATION MAY NOT BE CONDUCTED IN A
- 9 LABORATORY IN WHICH HUMAN OOCYTES ARE SUBJECT TO ASSISTED
- 10 REPRODUCTIVE TECHNOLOGY TREATMENTS OR PROCEDURES.
- 11 (F) THE SECRETARY MAY ASSESS A CIVIL PENALTY AGAINST ANY PERSON
- 12 WHO VIOLATES THIS SECTION NOT TO EXCEED \$250,000.
- 13 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take
- 14 effect October 1, 2004.