

## Human Embryonic Stem Cells An Introduction To The Science And Theutic Potential

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[Human Embryonic Stem Cells An](#)  
Embryonic stem cells are pluripotent stem cells derived from the inner cell mass of a blastocyst, an early-stage pre-implantation embryo. Human embryos reach the blastocyst stage 4 – 5 days post fertilization, at which time they consist of 50 – 150 cells. Isolating the embryoblast, or inner cell mass results in destruction of the blastocyst, a process which raises ethical issues, including whether or not embryos at the pre-implantation stage should have the same moral considerations as ...

[Embryonic stem cell - Wikipedia](#)  
Embryonic stem cells are a particular type of stem cell derived from embryos. According to US National Institutes of Health (NIH), in humans, the term "embryo" applies to a fertilized egg from the beginning of division up to the end of the eighth week of gestation, when the embryo becomes a fetus. Between fertilization and the eighth week of gestation, the embryo undergoes multiple cell divisions.

[Human Embryonic Stem Cells | The Embryo Project Encyclopedia](#)  
Embryonic stem cells are derived from embryos at a developmental stage before the time that implantation would normally occur in the uterus. Fertilization normally occurs in the oviduct, and during the next few days, a series of cleavage divisions occur as the embryo travels down the oviduct and into the uterus.

[Embryonic Stem Cells | stemcells.nih.gov](#)  
An embryonic stem cell is a cell derived from the early stages of an embryo which is capable of differentiating into any type of body cell. Embryonic stem cells are capable of differentiating into any cell type because in the embryo that is what they are used for. [Embryonic Stem Cells Overview](#)

[Embryonic Stem Cell - Definition and Uses | Biology Dictionary](#)  
Broadly speaking, two types of stem cell can be distinguished: embryonic stem (ES) cells which can only be derived from pre-implantation embryos and have a proven ability to form cells of all tissues of the adult organism (termed "pluripotent"), and "adult" stem cells, which are found in a variety of tissues in the fetus and after birth and are, under normal conditions, more specialized ("multipotent") with an important function in tissue replacement and repair.

[Human embryonic stem cells: research, ethics and policy ...](#)  
Embryonic stem cell Embryonic stem cells (ESCs) are stem cells derived from the undifferentiated inner mass cells of a human embryo. Embryonic stem cells are pluripotent, meaning they are able to...

[Embryonic stem cell - ScienceDaily](#)  
The Human Embryonic Stem Cell and the Human Embryonic. A new era in stem cell biology began in 1998 with the derivation of cells from human blastocysts and fetal tissue with the unique ability of differentiating into cells of all tissues in the body, i.e., the cells are pluripotent. Since then, several research teams have characterized many of the molecular characteristics of these cells and improved the methods for culturing them.

[3. The Human Embryonic Stem Cell and the Human Embryonic ...](#)  
Once an egg cell is fertilized by a sperm, it will divide and become an embryo. In the embryo, there are stem cells that are capable of becoming all of the various cell types of the human body. For research, scientists get embryos in two ways. Many couples conceive by the process of in vitro fertilization.

[Embryonic Stem Cells | HowStuffWorks](#)  
Embryonic stem cells (often referred to as ES cells) are stem cells that are derived from the inner cell mass of a mammalian embryo at a very early stage of development, when it is composed of a hollow sphere of dividing cells (a blastocyst).

[stem cell | Definition, Types, Uses, Research, & Facts ...](#)  
Embryonic stem cells are blank cells that have not yet been categorized or programmed by the body and can be prompted to generate any of the 220 human cell types. Embryonic stem cells are extremely flexible.

[Arguments for and Against Embryonic Stem Cell Research](#)  
Embryonic stem cells can be totipotent or pluripotent, depending on the specific embryonic stage of development. Totipotent stem cells are those which can give rise to a whole human organism. A zygote is the first of the embryonic stages of human development and is formed from the union of a sperm and an egg cell.

[Ethics of Human Embryonic, Fetal Stem Cell and Fetal ...](#)  
We described a protocol for dissecting the function of an important serine/threonine protein kinase, mammalian target of rapamycin (mTOR), in regulating the long-term undifferentiated growth of human embryonic stem cells (hESCs). The function of mTOR in hESCs was inactivated with a highly specific c...

[Assessing the function of mTOR in human embryonic stem cells](#)  
Embryonic stem cells come from human embryos that are three to five days old. They are harvested during a process called in-vitro fertilization. This involves fertilizing an embryo in a laboratory...

[Stem Cell Research: Uses, Types & Examples](#)  
"The 293T cell line was originally derived from human embryonic kidney cells but is an immortalized epithelial cell – so not a stem cell. These cells were transfected and used in production of a...

[Fact check: Trump's antibody therapy not made from fetal ...](#)  
A human embryonic stem cell is also defined by the expression of several transcription factors and cell surface proteins. The transcription factors Oct-4, Nanog, and Sox2 form the core regulatory network that ensures the suppression of genes that lead to differentiation and the maintenance of pluripotency.

[Stem cell - Wikipedia](#)  
An embryo is the early stage of development of a multicellular organism. In general, in organisms that reproduce sexually, embryonic development is the part of the life cycle that begins just after fertilization and continues through the formation of body structures, such as tissues and organs. Each embryo starts development as a zygote, a single cell resulting from the fusion of gametes (i.e. ...

[Embryo - Wikipedia](#)  
Human embryonic stem cell: Also known as a human pluripotent stem cell, one of the "cells that are self-replicating, are derived from human embryos or human fetal tissue, and are known to develop into cells and tissues of the three primary germ layers.