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Creation of human
embryonic stem cell

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basics animation

~~What are stem cells?~~

~~—Craig A. Kohn~~ What

Are Stem Cells |

Genetics | Biology |

FuseSchool Why

Can't We Experiment

On Human Embryonic

Stem Cells?

Embryonic Stem Cells

Pluripotent Stem cell

culture in NutriStem®

XF/FF Stem Cell

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Culture Embryonic

stem cells | Cells |

MCAT | Khan

Academy Induced

Pluripotent Stem Cell

iPSC Stem Cells Allen

Cell Methods: Single

cell passaging human

iPS cells WHAT CAN

STEM CELLS DO?

Making Pluripotent

Stem Cells Adult

Stem Cells What are

Induced Pluripotent

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Stem Cells? (iPS

Cells) ~~What is a~~

~~pluripotent stem cell?~~

Cellular

Reprogramming

Animation Promises

and Dangers of Stem

Cell Therapies |

Daniel Kota |

TEDxBrookings ~~Stem~~

~~Cell Animation How~~

~~We Are Growing~~

~~Organs In The Lab? |~~

~~Dr. Jim Wells |~~

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~~TEDxCincinnati Stem~~

~~cells: research~~

~~milestones and more~~

~~Stem cell culture and~~

~~Embryonic stem cells~~

~~Pluripotent Stem Cell~~

~~Culture Systems:~~

~~Identifying appropriate~~

~~tools Establishment of~~

~~Cancer Stem Cell~~

~~Cultures from Human~~

~~Conventional~~

~~Osteosarcoma~~

~~Human Neural Stem~~

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~~Cell Efficacy and~~

~~Repair — Aileen~~

~~Anderson Induced~~

~~pluripotent stem cells~~

Why Scientists Are
Using Mice to Make
Human Cells

Differentiation of
human pluripotent
stem cells into atrial
and ventricular
cardiomyocyte
subtypes Culture Of
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Culture of Human
Stem Cells, edited by
R. Ian Freshney, Glyn
N. Stacey, and
Jonathan M.
Auerbach, is a
collection of
established
techniques presented
in one volume that is
designed to stand
alone as a singular,
definitive resource for
anyone interested in

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the therapeutic
potential of human
stem cells.

Culture of Human
Stem Cells (Culture of
Specialized Cells)

"For those working, or
considering working
with human stem
cells, Culture of
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will be an essential
reference." (The

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Biochemical Society,
October 2009)

"Valuable to those entering the field from a wide spectrum of disciplines—an essential textbook for teachers and students who are involved with the therapeutic potential of stem cell research."

Culture of Human

Page 11/35

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Stem Cells | Wiley
Online Books

"Culture of Human Stem Cells" also includes three general chapters on quality control, legal and ethical issues, and cryopreservation. This concise, one stop resource is an invaluable introduction to the field of stem cell

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biology and culture for
all researchers and
clinical scientists with
interests in tissue
replacement
therapies.

Culture of Human
Stem Cells Culture of
Specialized Cells ...
Most stem cells
attach, divide, and
spread over the
surface of the dish.

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The culture dish becomes crowded as the cells divide, so they need to be re-plated in the process of subculturing, which is repeated periodically many times over many months. Each cycle of subculturing is referred to as a "passage." The original cells can yield

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millions of stem cells.

At any stage in the process, batches of cells can be frozen and shipped to other laboratories for further culture and experimentation.

III. How do you culture stem cells in the laboratory ...

"For those working, or considering working

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with human stem
cells, Culture of
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will be an essential
reference." (The
Biochemical Society ,
October 2009)

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entering the field from
a wide spectrum of
disciplines—an
essential textbook for
teachers and students
who are involved with

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Cells
the therapeutic
potential of stem cell
research."

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Here, using 3D
culture of human
HSPCs in a
degradable
zwitterionic hydrogel,
we achieved
substantial expansion
of phenotypically

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primitive CD34⁺ cord blood and bone-marrow-derived HSPCs. This culture system led to a 73-fold increase in long-term hematopoietic stem cell (LT-HSC) frequency, as demonstrated by limiting dilution assays, and the expanded HSPCs

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Human Stem
Cells
were capable of
hematopoietic
reconstitution for at
least 24 weeks in
immunocompromised
mice.

Expansion of primitive
human hematopoietic
stem cells by ...

Organoid culture is a
three-dimensional
culture method that
enables ex vivo

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analysis of stem cell behavior and differentiation. This method is also applicable to the studies on stem cell characters of human cancer stem cells. The components of organoid culture include Matrigel® and a culture medium containing

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Organoid Culture of
Human Cancer Stem
Cells.

Indeed, expanding human stem cells in culture has been more of an art than a science so much so that some laboratories do not grow human stem cells at all.

Scale-up of human mesenchymal stem

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Human Stem ...

Culture of human stem cells is used to expand the number of cells and differentiate the cells into various somatic cell types for transplantation. Stem cell culture is also used to harvest the molecules and exosomes that the stem cells release for the purposes of

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Cell culture -

Wikipedia

Since 1998 however,
it has been possible
to culture and
differentiate human
embryonic stem cells
(in stem-cell lines).

The process of
isolating these cells
has been

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controversial, because it typically results in the destruction of the embryo.

Stem cell - Wikipedia

Spray the outside of the vial with 70% ethanol and place it in hood. Pipet cells gently into a sterile 50-mL conical tube using a 5-mL sterile

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pipette. Slowly add 10 mL of PSC Culture Medium drop-wise to cells in the 50-mL conical tube. While adding the medium, gently move the tube back and forth to mix the hESCs.

Feeder-Dependent
Culture of Human
Embryonic Stem Cells

...

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Organoid culture is a three-dimensional culture method that enables ex vivo analysis of stem cell behavior and differentiation. This method is also applicable to the studies on stem cell ...

Organoid Culture of
Human Cancer Stem
Cells | Request PDF

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Cell lines. Human embryonic stem cell lines H1 and H9 (), passages 25 to 40, were used in this study. hESCs were cultured as undifferentiated colonies attached to 6-well tissue culture plates, incubated inside a humidified 5% CO₂ incubator at 37 °C, as described

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previously (). The 6-well plates were either pre-seeded with irradiated mouse embryonic fibroblasts (MEFs) as a feeder layer, or pre ...

Scalable Culture and Cryopreservation of Human Embryonic ...
Carefully remove the medium from the 10-cm tissue culture

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plate containing the confluent layer of human mesenchymal stem cells. Apply 3-5 mL of Trypsin-EDTA Solution (SM-2003-C) and incubate in a 37°C incubator for 3-5 minutes.

Mesenchymal Stem
Cell Culture Protocols
| MSC Culture ...
Human embryonic

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stem cells (hESCs) hold great potential for the treatment of various degenerative diseases. Pluripotent hESCs have a great ability to undergo unlimited self-renewal in culture and to differentiate into all cell types in the body.

Isolation, Culture, and
Functional

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Characterization of ...

Transplantation of retinal tissue derived from human pluripotent stem cells (PSCs) is considered a promising treatment. However, derivation of retinal tissue from PSCs using defined media is a lengthy process and often variable between different cell

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3D culture of human pluripotent stem cells in RGD-alginate ...

This year's 4-day virtual course includes virtual, laboratory-based training sessions, lectures, and discussions covering current theory and best practices with regard

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to derivation, culture
and characterisation
of human induced
pluripotent stem cells
(hiPSCs).

Derivation and
Culture of Human
Induced Pluripotent
Stem ...

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MacLean, culture of

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the therapeutic

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