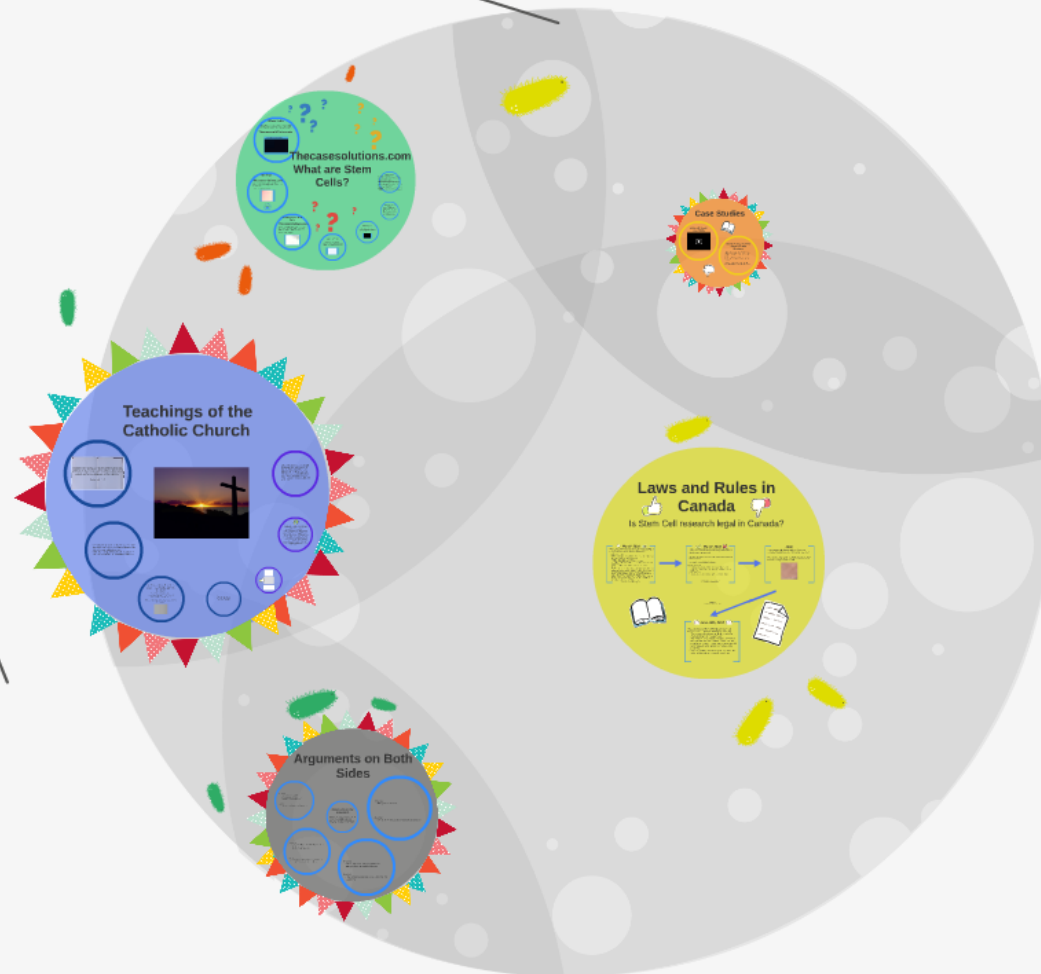
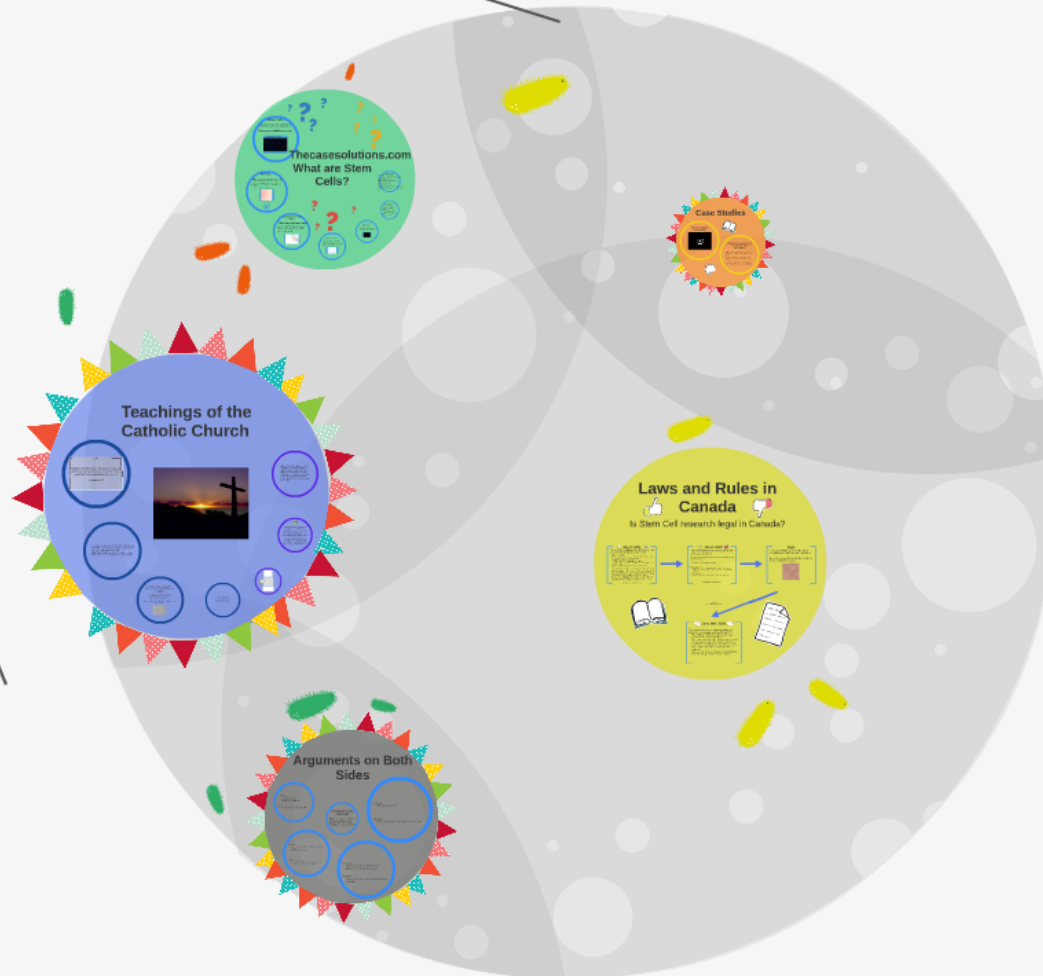


Learning To Lead In China: Michael Faye Goes To China (Cartoon)



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Learning To Lead In China: Michael Faye Goes To China (Cartoon)



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Stem Cells

Stem Cells are cells with the ability to divide continuously to give rise to specialized cells.

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Thecasesolutions.com What are Stem Cells?

Embryo

Thecasesolutions.com

In humans, the developing organism from the time of fertilization until the end of the eighth week of gestation, when it is called a fetus.

In other words, a potential human being.



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Somatic (adult) Stem Cells

Thecasesolutions.com

They are rare undifferentiated cells found in many organs and differentiated tissues with a limited capacity for both self-renewal and differentiation.

They are non-embryonic.



Stages of Embryonic Stem Cell Research

1. Fertilization of an egg and sperm to form a zygote.
 2. Cleavage of the zygote into a morula.
 3. Formation of the blastocyst.
 4. Isolation of inner cell mass cells.
 5. Culture of stem cells in a laboratory setting.
 6. Differentiation of stem cells into various cell types.

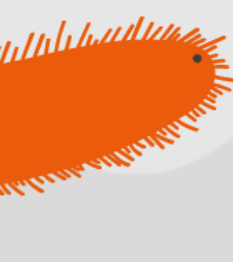
Blastocysts

A hollow sphere of cells that is one of the earliest stages of embryonic development. It contains a cluster of cells called the inner cell mass, which will eventually form the embryo.



Amniotic Stem Cells

A mixture of stem cells found in the amniotic fluid surrounding a fetus during pregnancy. They, as well, have the potential to transform into various tissue types.

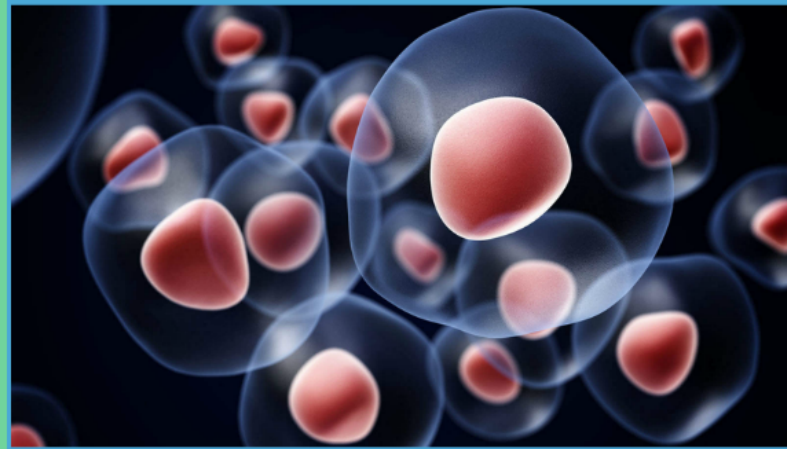


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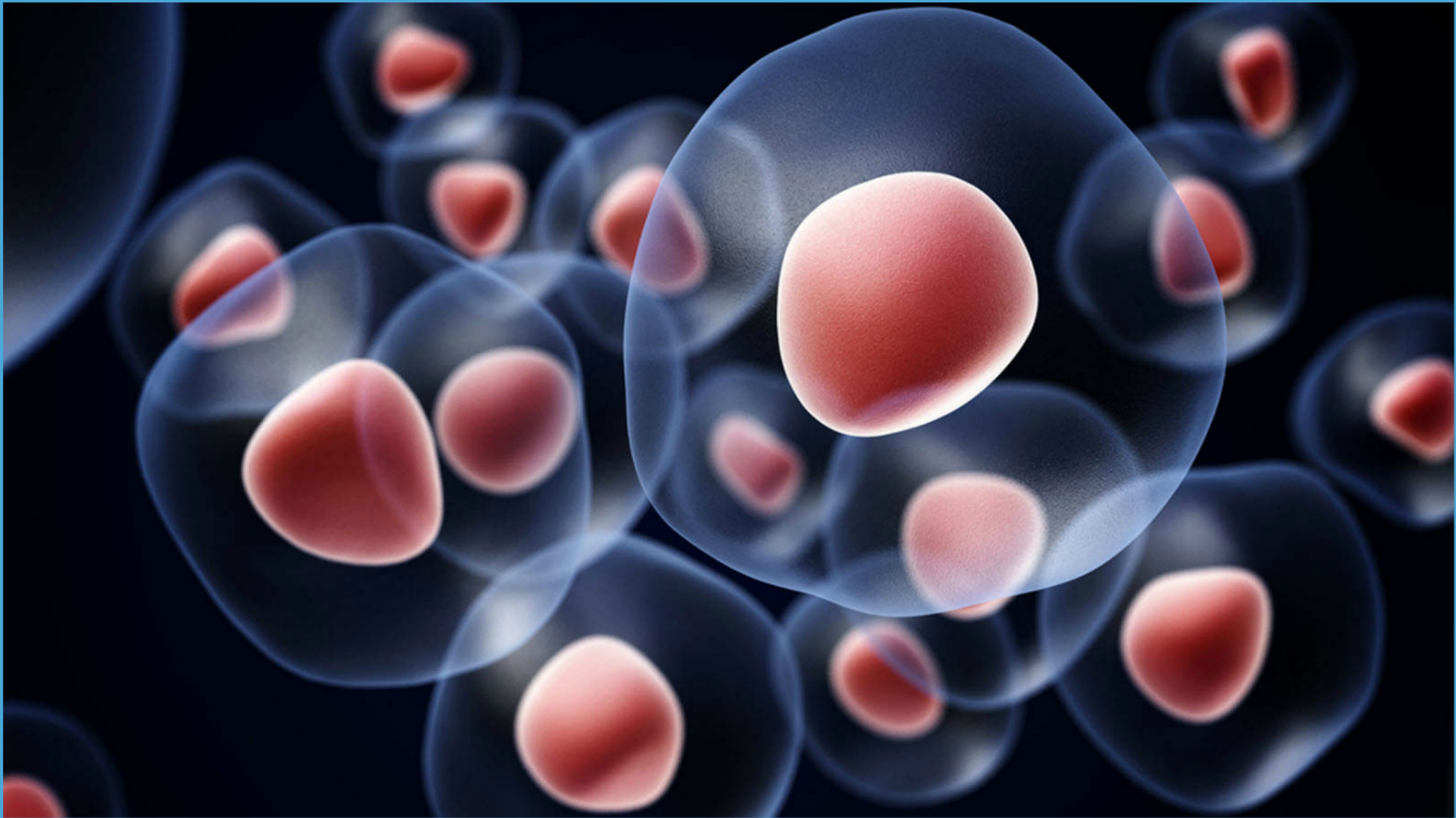
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Embryo

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Embryonic Stem
Cells

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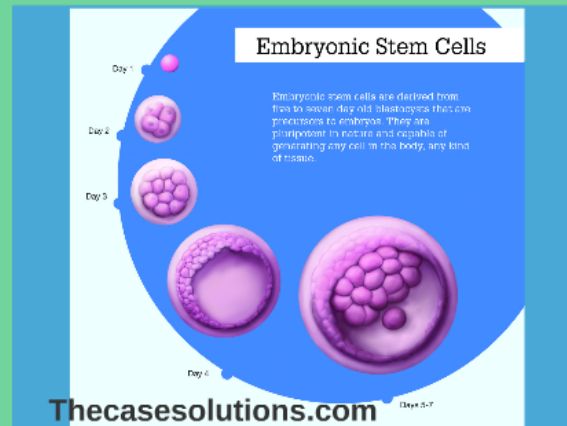
Primitive cells found in a 5 day old embryo that are capable of dividing without differentiating for a prolonged period, and are known to develop into cells and tissues of the three primary germ layers.



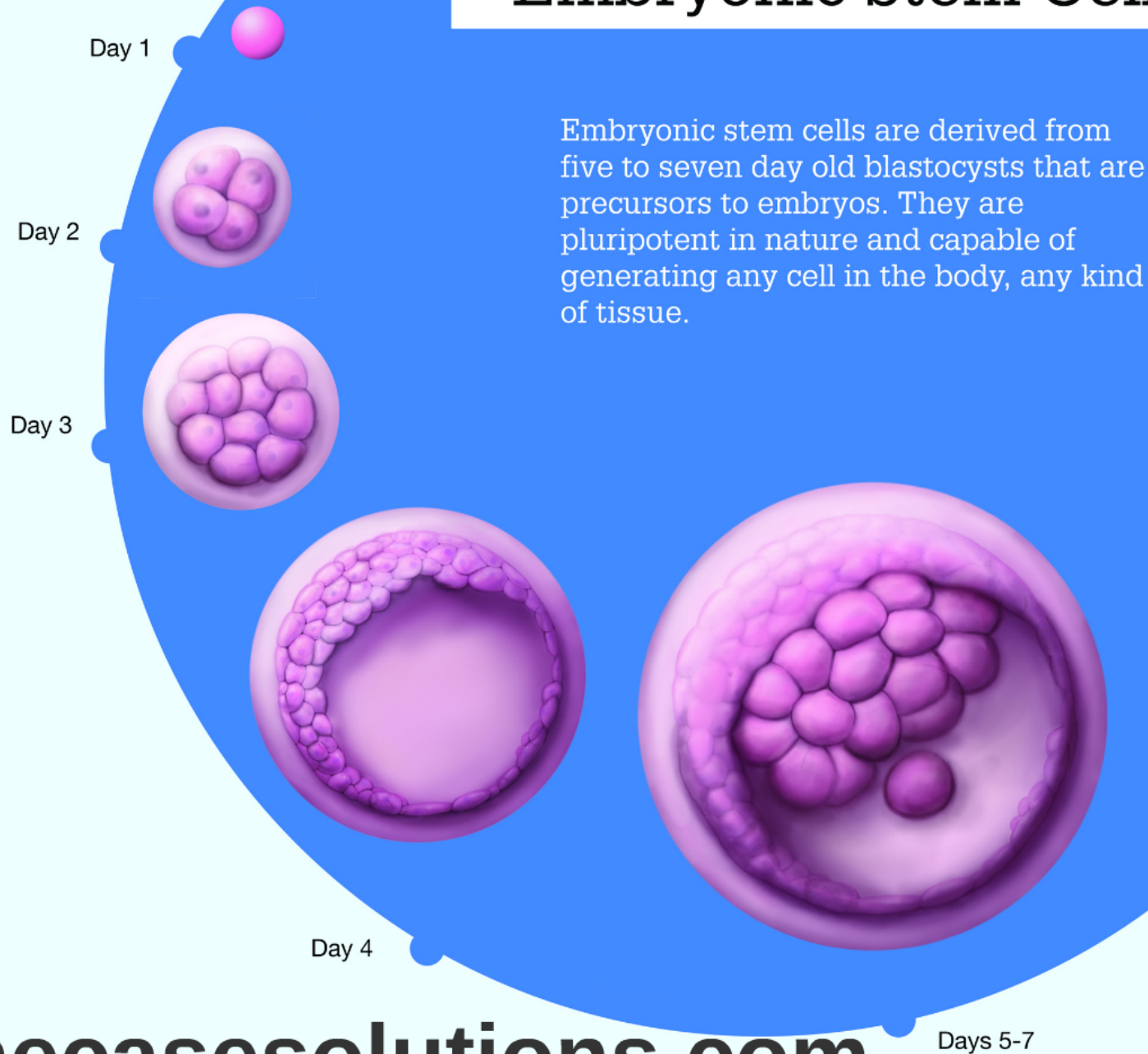
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Embryonic Stem Cells



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