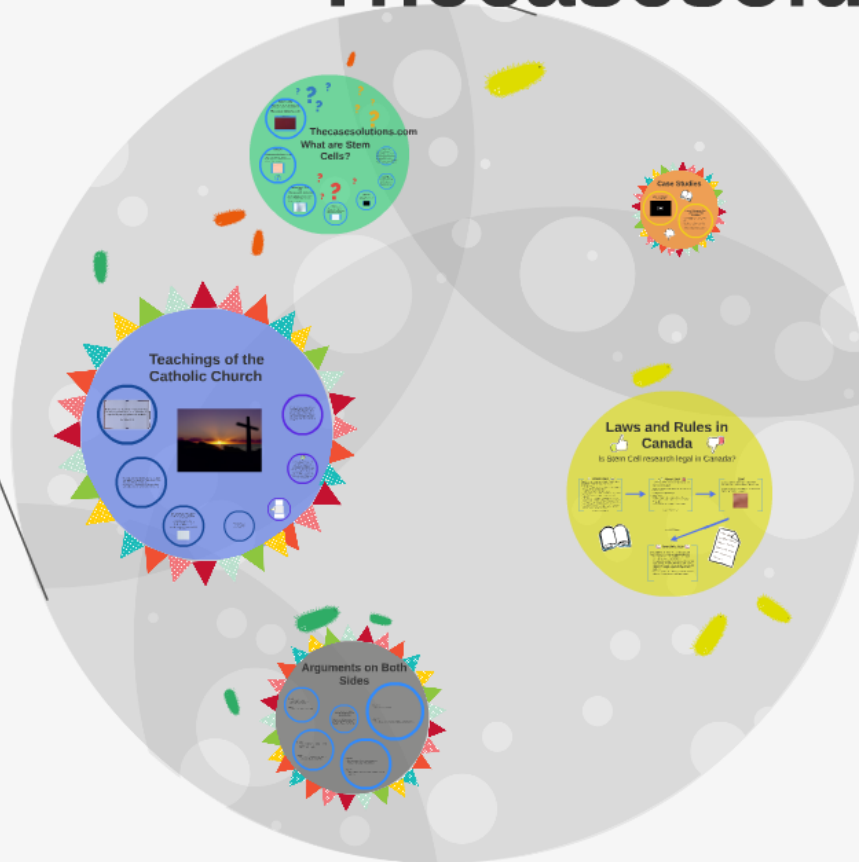




# Practical Regression: Convincing Empirical Research in Ten Steps

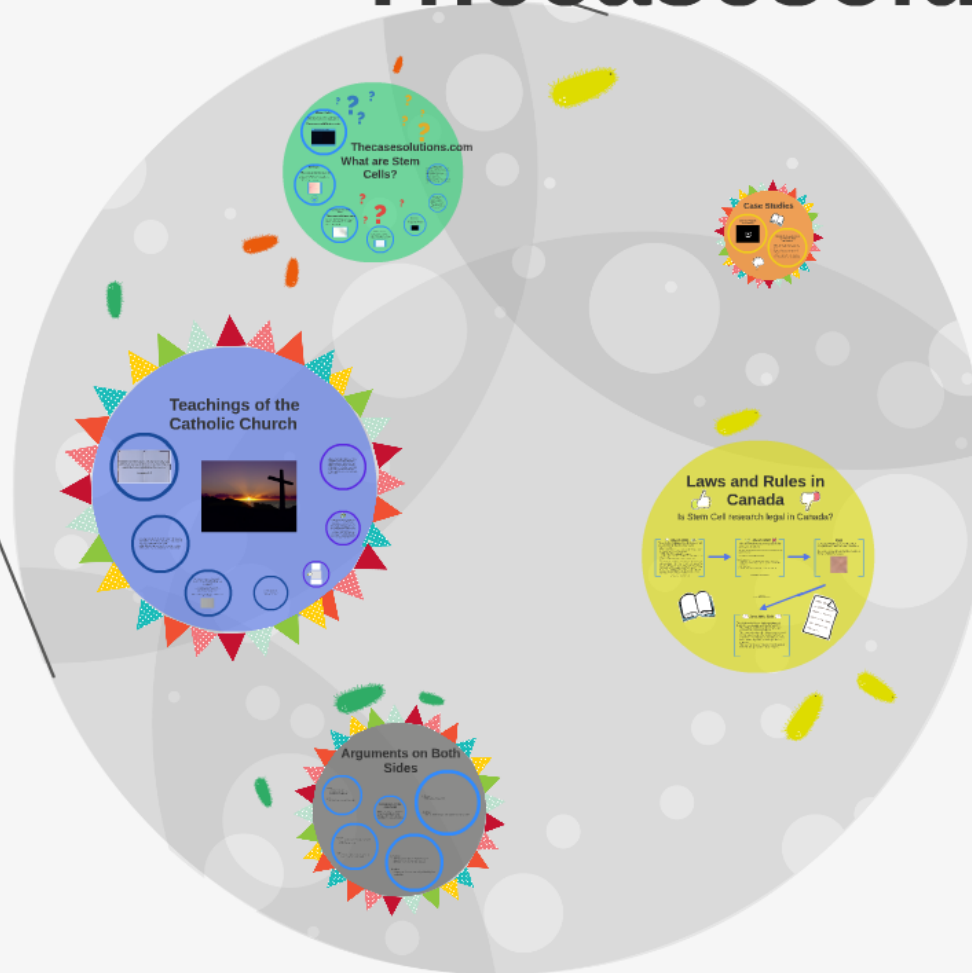
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# Practical Regression: Convincing Empirical Research in Ten Steps

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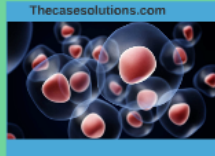
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## What are Stem Cells?

### Stem Cells

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

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### Embryo

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*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.*



### 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.*



### 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.*



### Blastocysts

*A five- to seven-day structure in early embryonic development that contains a cluster of cells called the inner cell mass (which will become the embryo).*



### Works Cited

- 1. "What are Stem Cells?" *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/what-are-stem-cells/>
- 2. "Embryonic Stem Cells." *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/embryonic-stem-cells/>
- 3. "Somatic (adult) Stem Cells." *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/somatic-adult-stem-cells/>
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- 5. "Blastocysts." *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/blastocysts/>
- 6. "Embryo." *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/embryo/>
- 7. "Stem Cells." *Thecasesolutions.com*. 2014. <http://www.thecasesolutions.com/stem-cells/>

### Stages of Embryonic Stem Cell Research

*1. Fertilization: A sperm cell and an egg cell fuse to form a zygote. The zygote divides and develops into a blastocyst. The blastocyst is a cluster of cells called the inner cell mass (which will become the embryo).*

*2. Differentiation: The inner cell mass of the blastocyst is cultured in a laboratory dish. The cells are fed and grow into a layer of cells called the embryonic stem (ES) cell line.*

*3. Proliferation: The ES cell line is maintained in a laboratory dish. The cells are fed and grow into a large number of cells.*

*4. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

*5. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

*6. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

*7. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

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*14. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

*15. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

*16. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

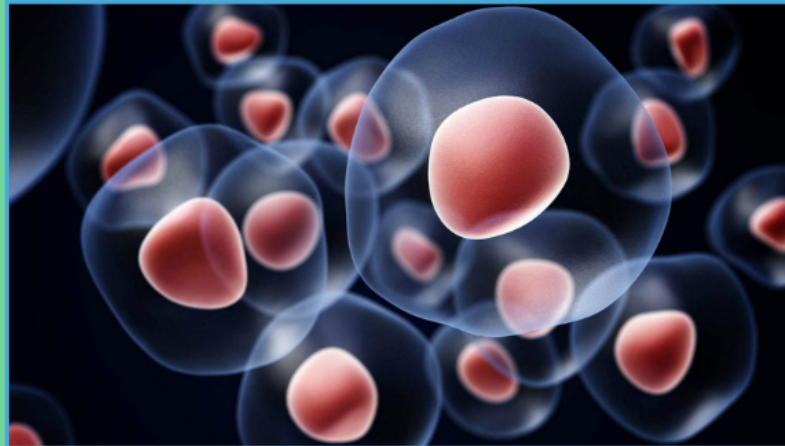
*17. Differentiation: The ES cell line is cultured in a laboratory dish. The cells are fed and grow into a large number of cells.*

# Stem Cells

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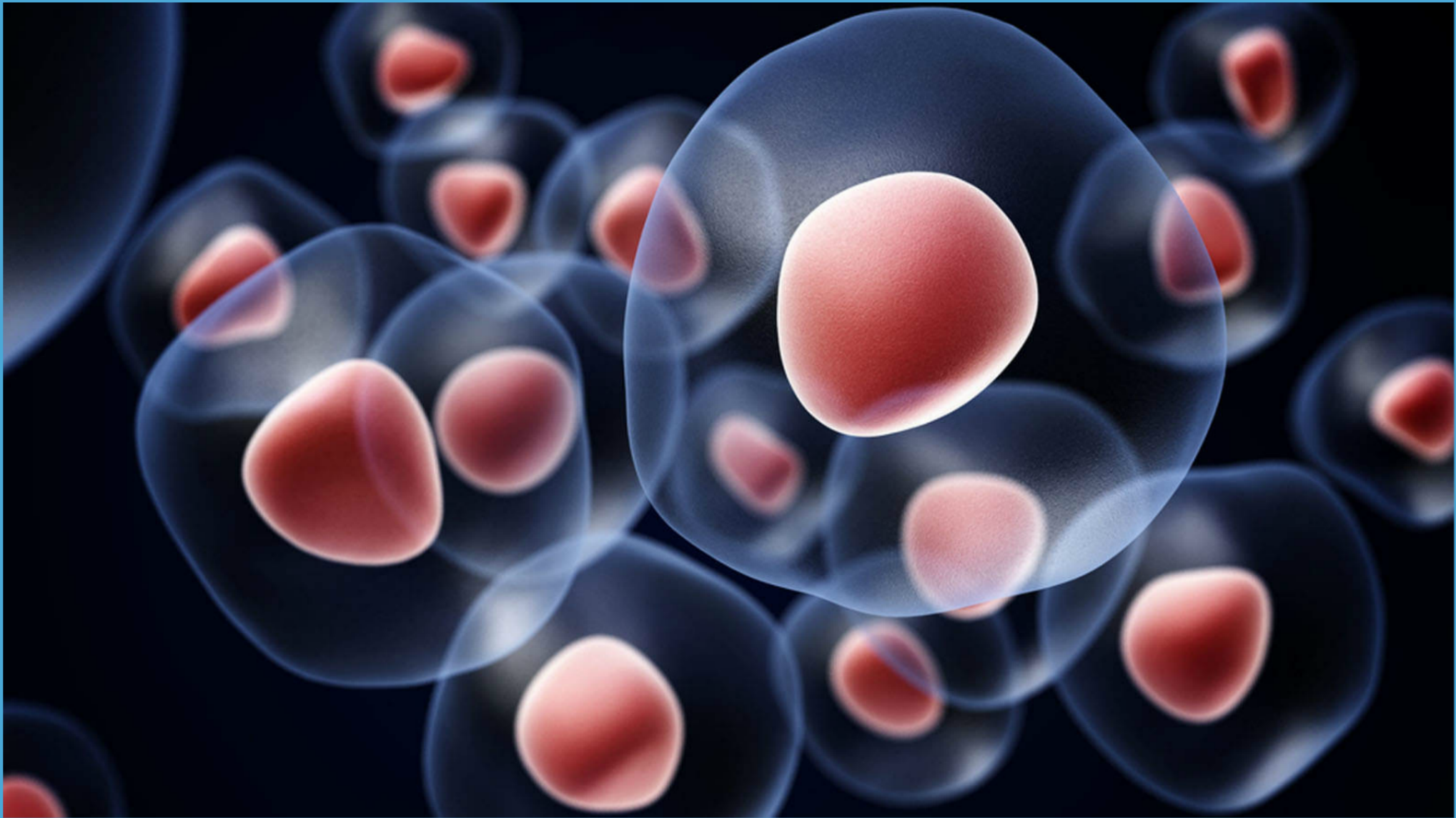
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# Embryo

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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.

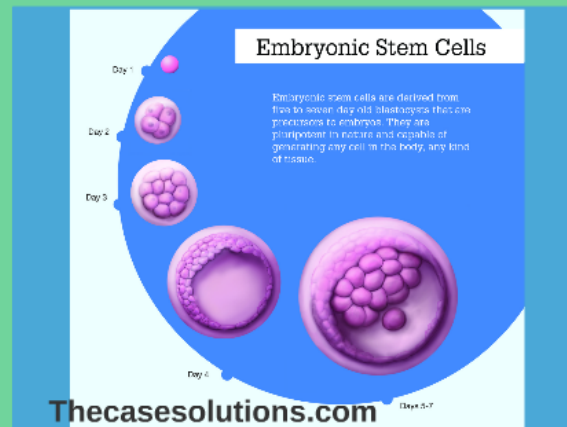




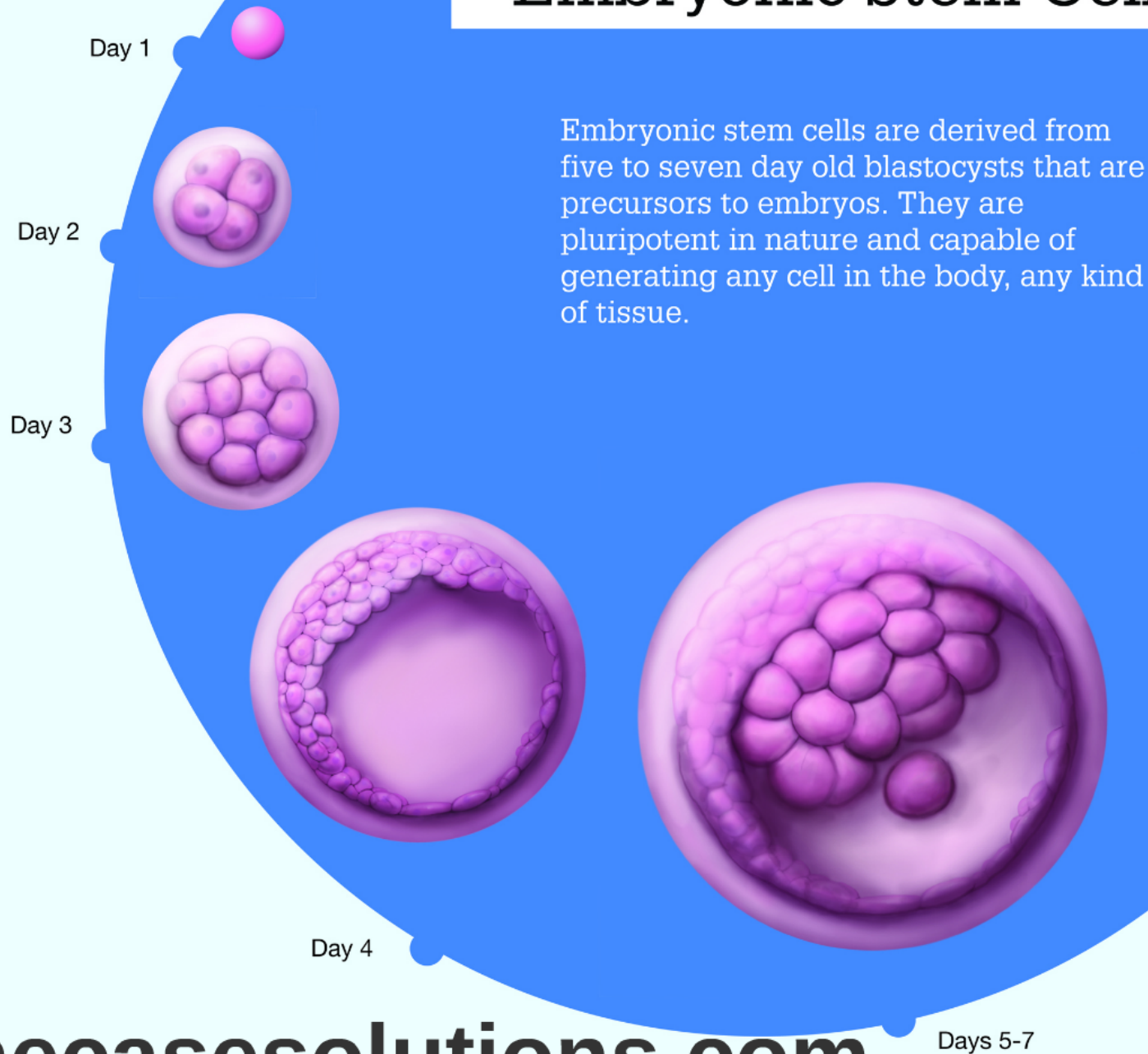
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