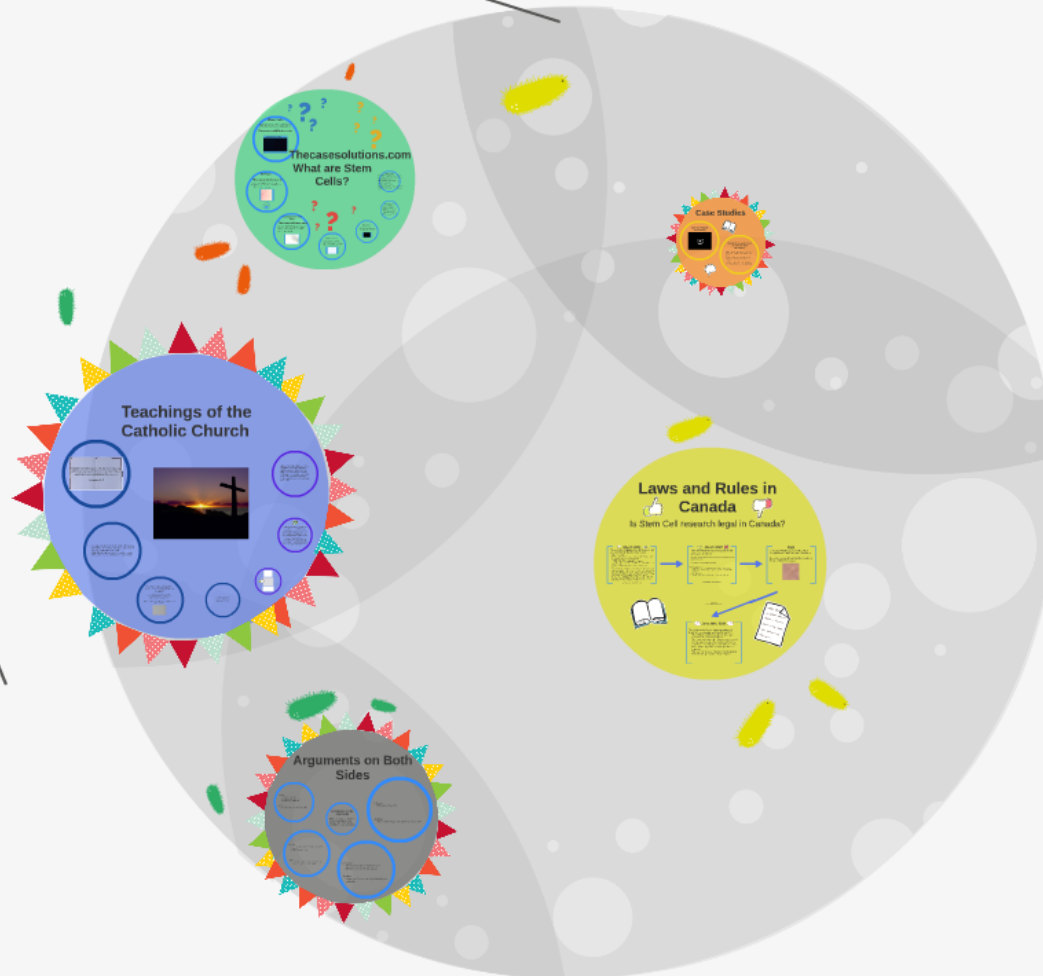
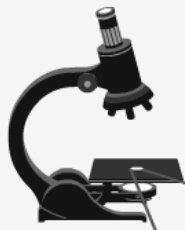
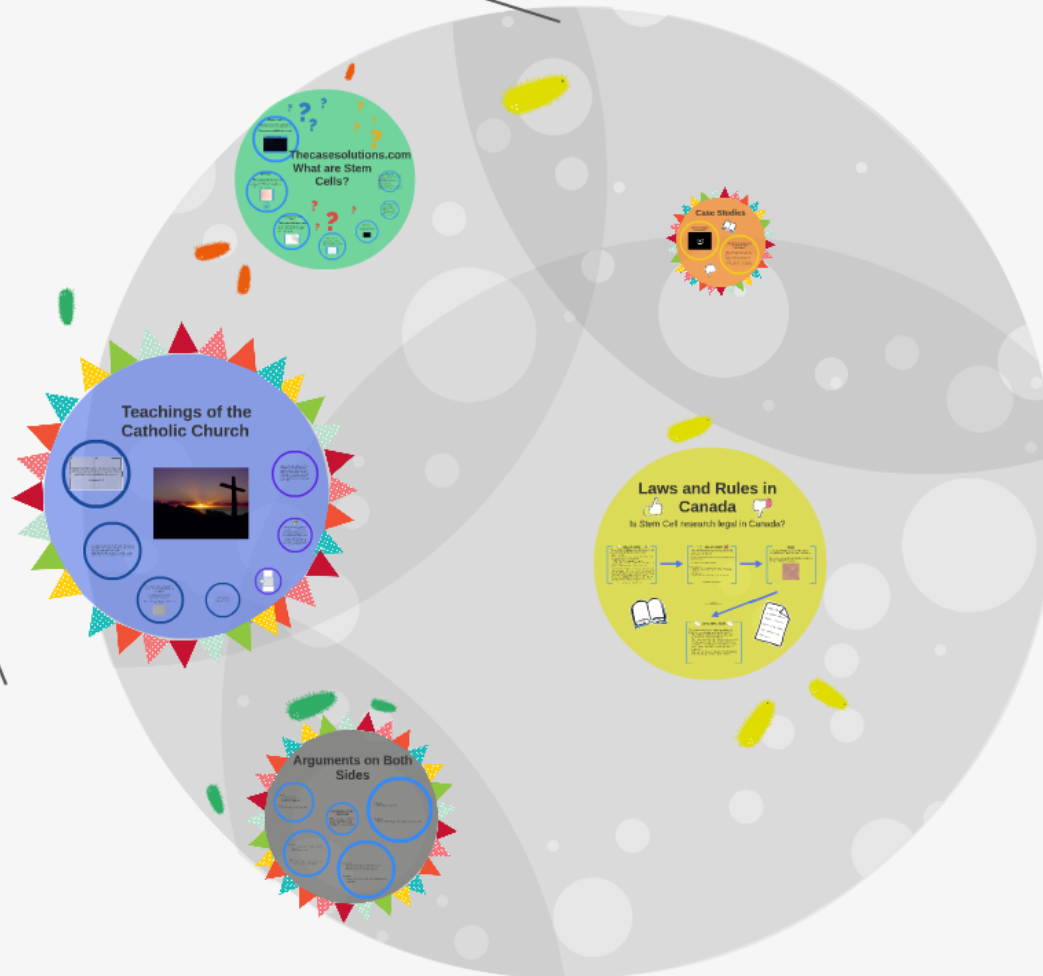


# Kalamandir: Creating an Ecosystem for Livelihood Generation



**TheCaseSolutions.com**

# Kalamandir: Creating an Ecosystem for Livelihood Generation



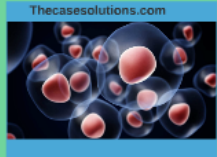
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### Stem Cells

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

Thecasesolutions.com



# 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.*



### Works Cited

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3. "Embryonic Stem Cells." Thecasesolutions.com. Retrieved 11/11/2011.  
4. "Somatic (Adult) Stem Cells." Thecasesolutions.com. Retrieved 11/11/2011.  
5. "Amniotic Stem Cells." Thecasesolutions.com. Retrieved 11/11/2011.  
6. "Blastocysts." Thecasesolutions.com. Retrieved 11/11/2011.  
7. "Stages of Embryonic Stem Cell Research." Thecasesolutions.com. Retrieved 11/11/2011.

### 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 hollow sphere of cells that form a cluster of cells called the inner cell mass surrounding the embryo stem.*



### 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 inner cell mass.  
4. Isolation of embryonic stem cells.  
5. Differentiation of stem cells into various cell types.

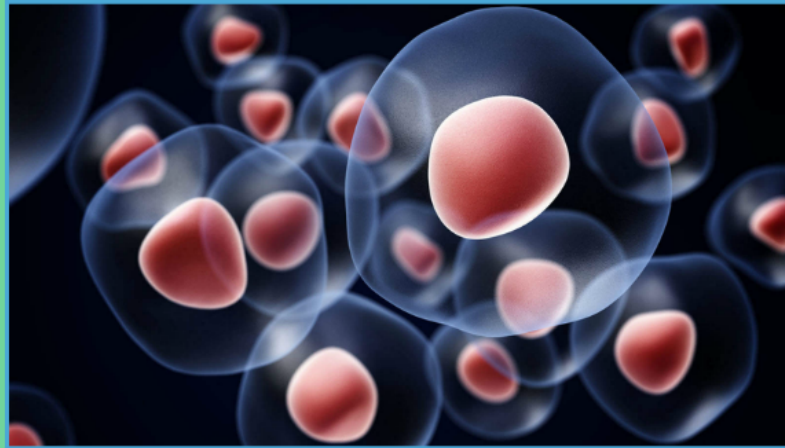


# Stem Cells

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

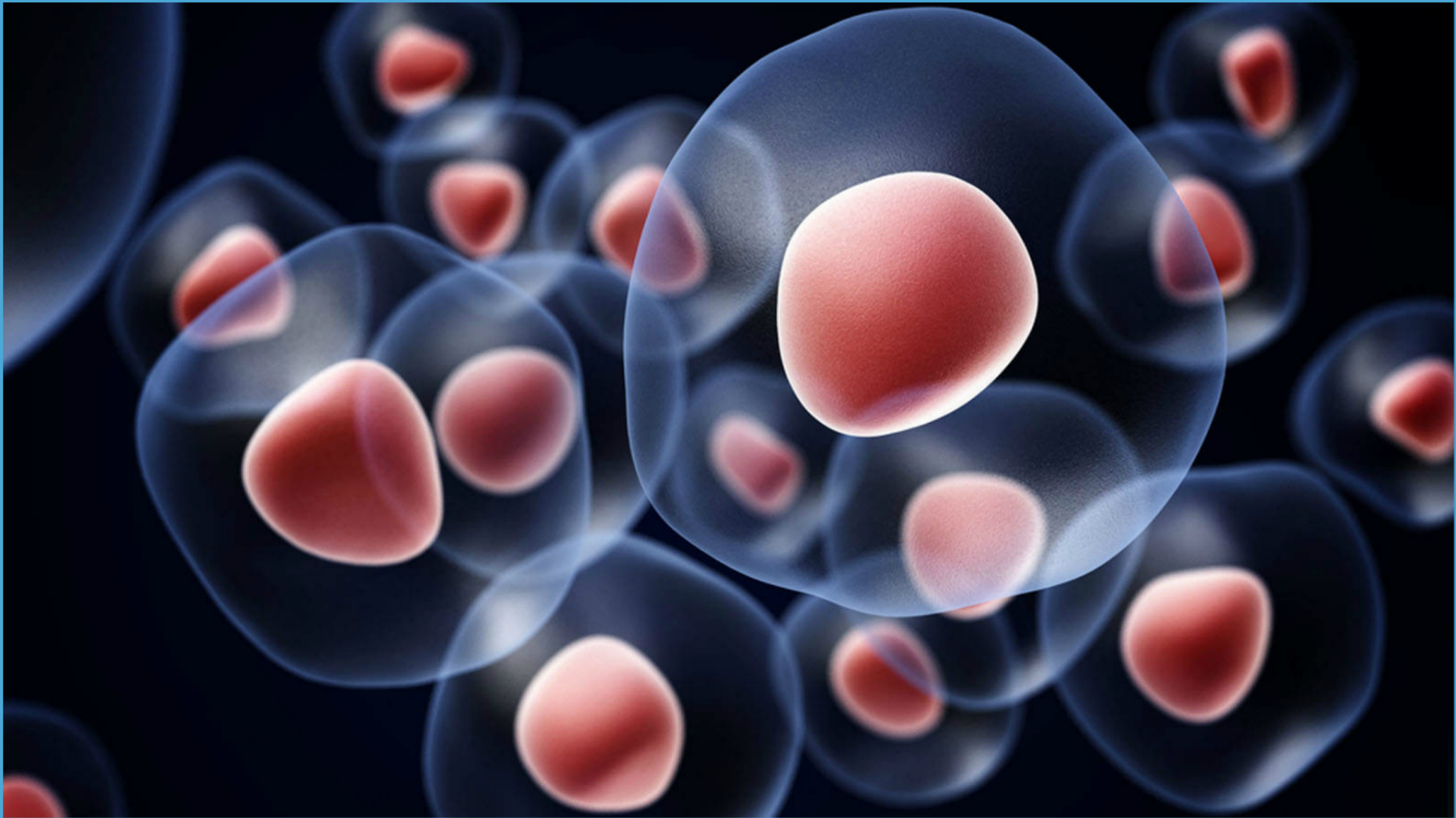
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# Embryo

## 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.*



Embryonic Stem  
Cells

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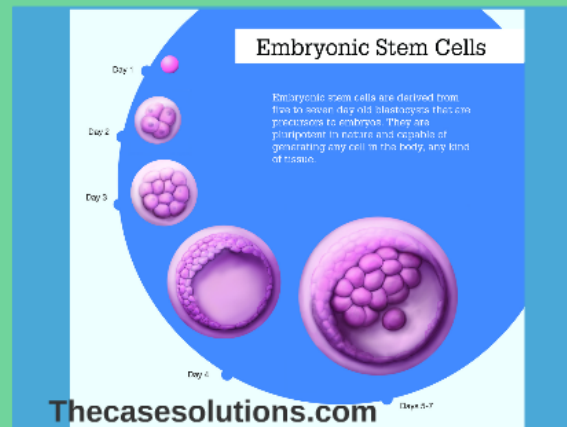
Primitive cells found in a 5 day old embryo that are capable of dividing without differentiating for a prolonged period, and are known to develop into cells and tissues of the three primary germ layers.



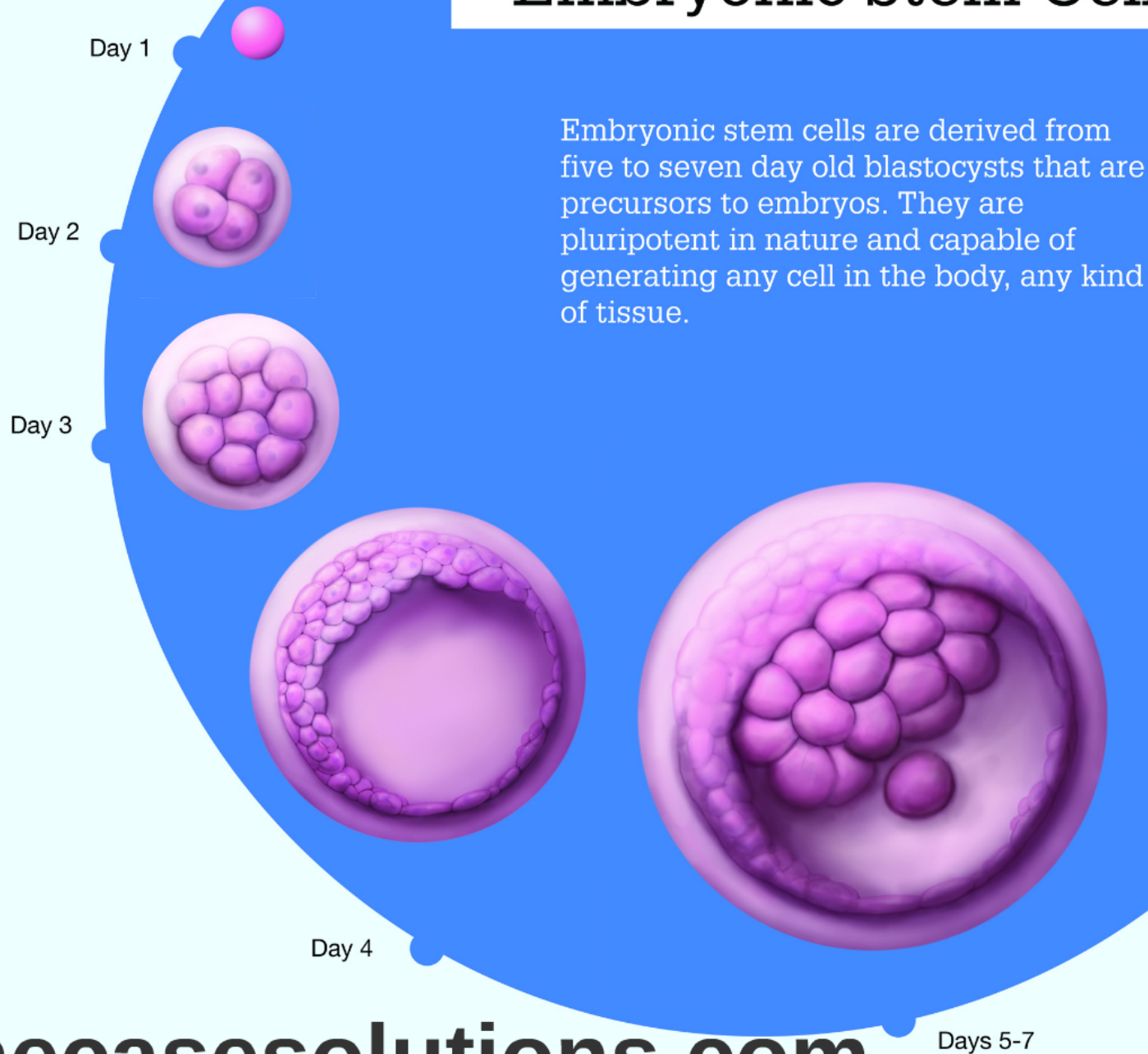
# Embryonic Stem Cells

**Thecasesolutions.com**

*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.*



# Embryonic Stem Cells



Embryonic stem cells are derived from five to seven day old blastocysts that are precursors to embryos. They are pluripotent in nature and capable of generating any cell in the body, any kind of tissue.



# 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**.*

