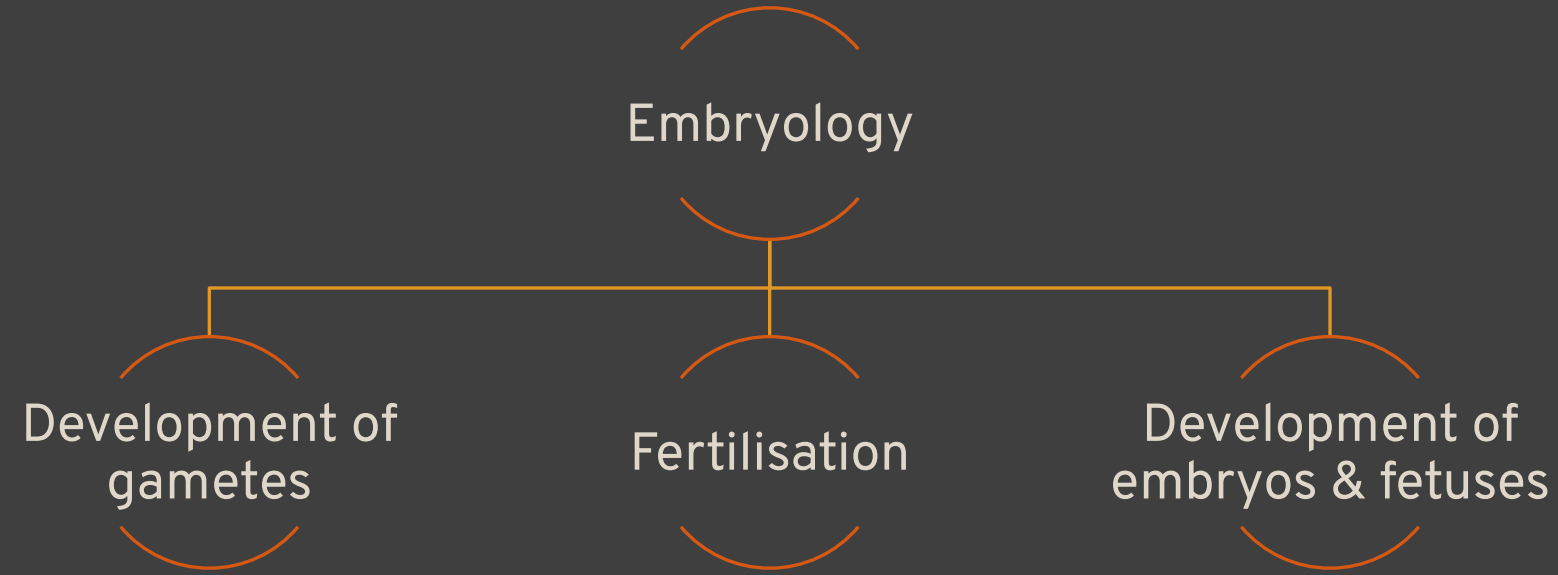
Embryology

Performed: Student Korkunov Roman
Group 26B181(1)

Embryology


Embryology
Development of gametes
Fertilisation
Development of embryos & fetuses

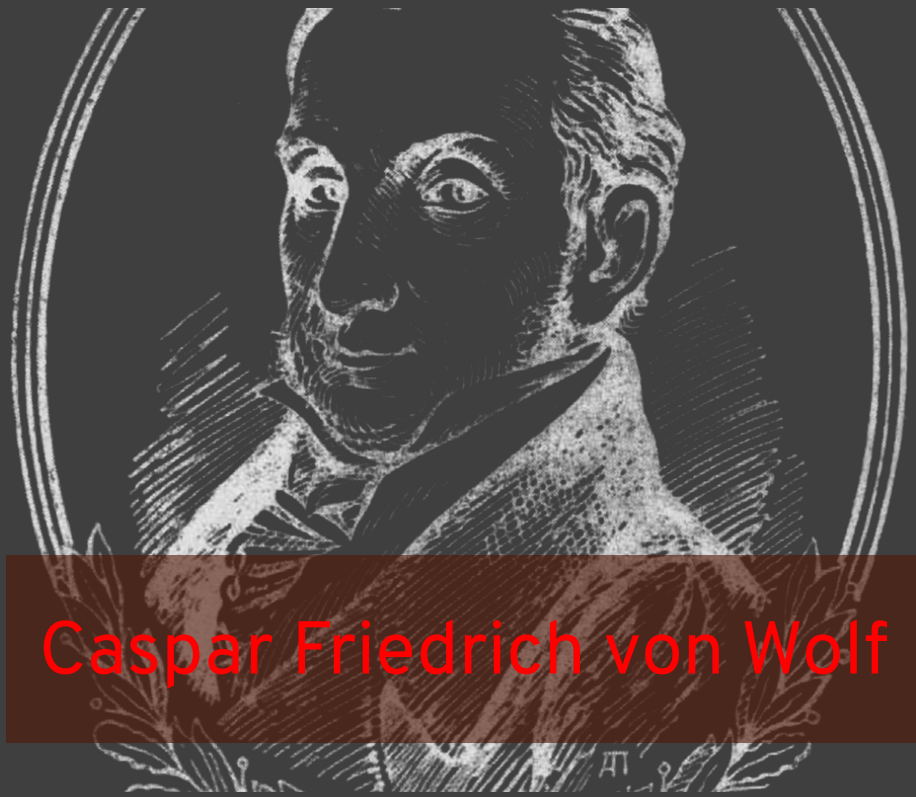
History *ANCIENT TIMES*

Preformism

Hippocrates

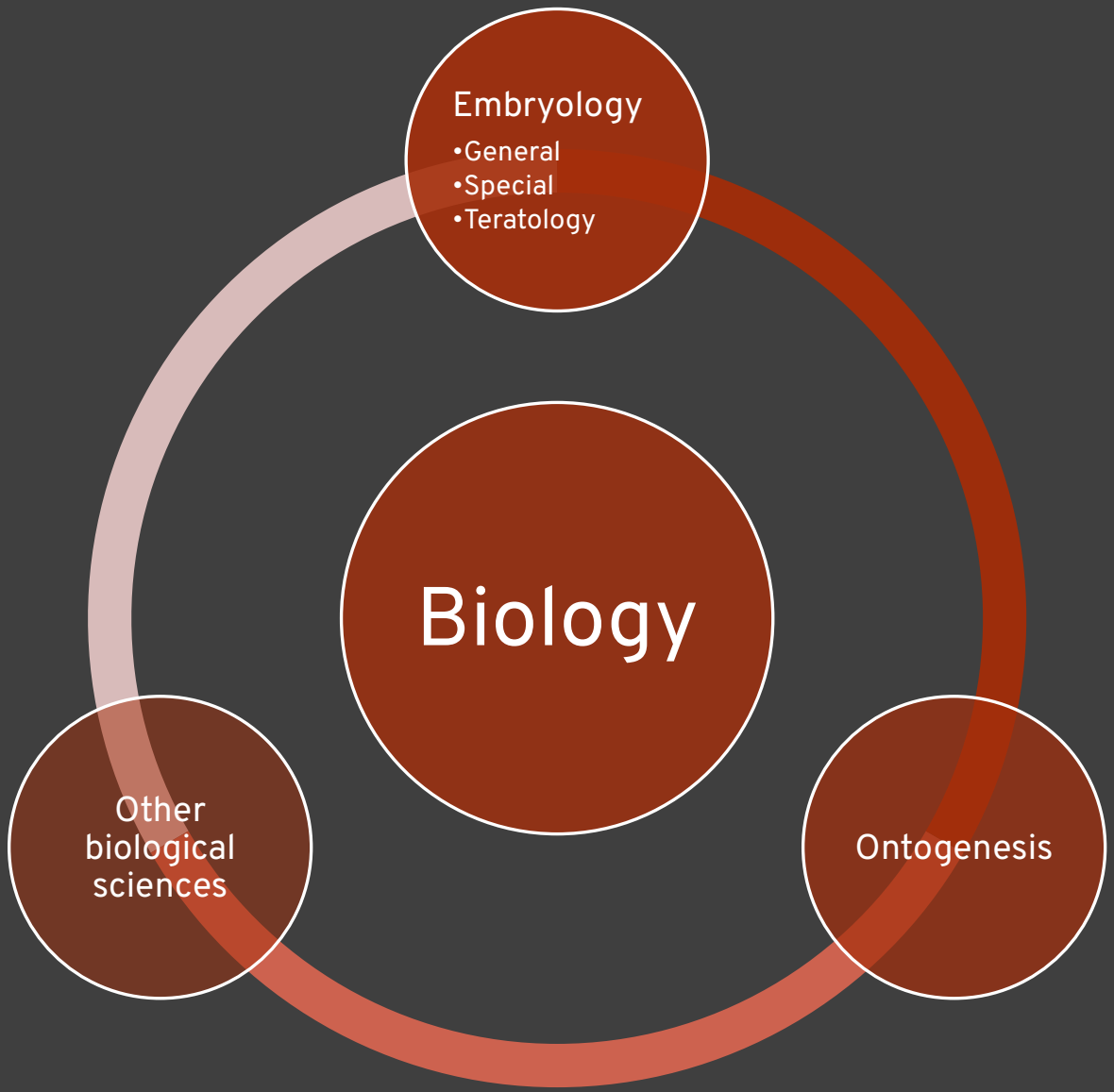
History *XVIII–XIX*

Karl Ernst von Baer



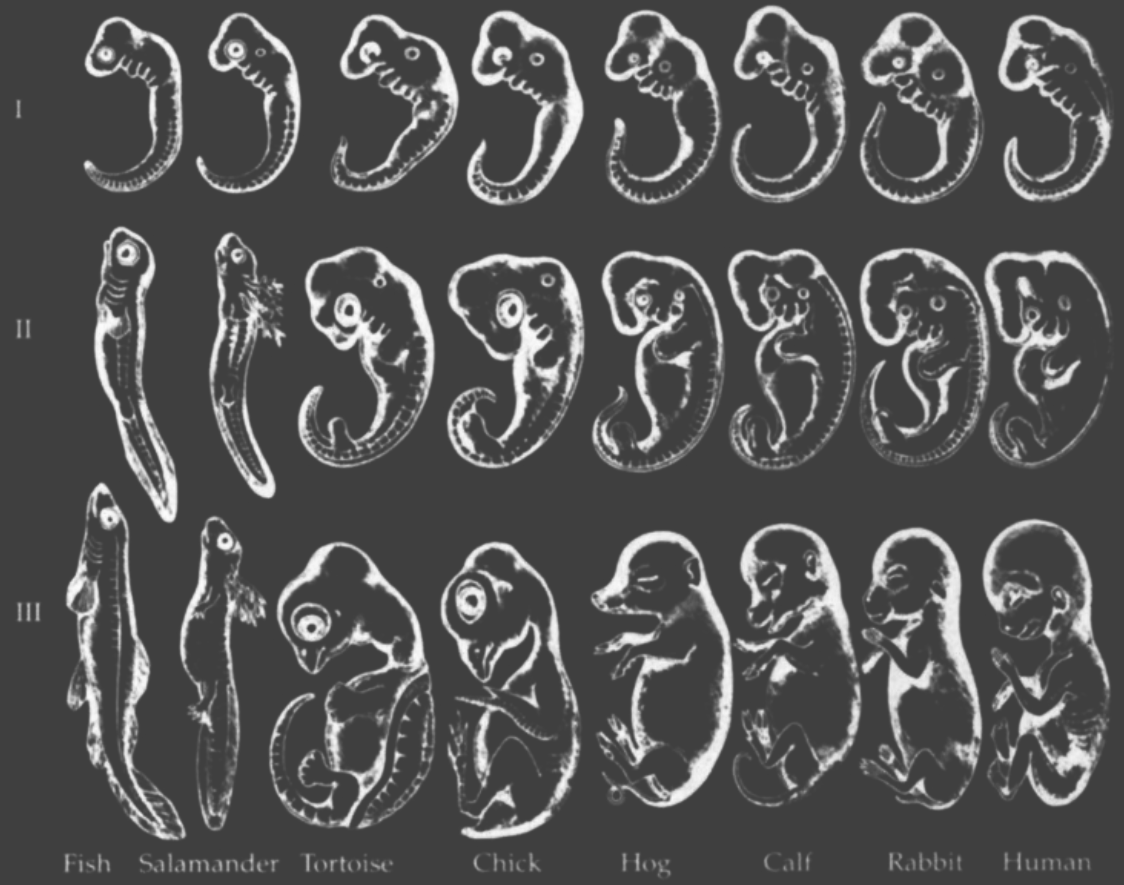
Caspar Friedrich von Wolf

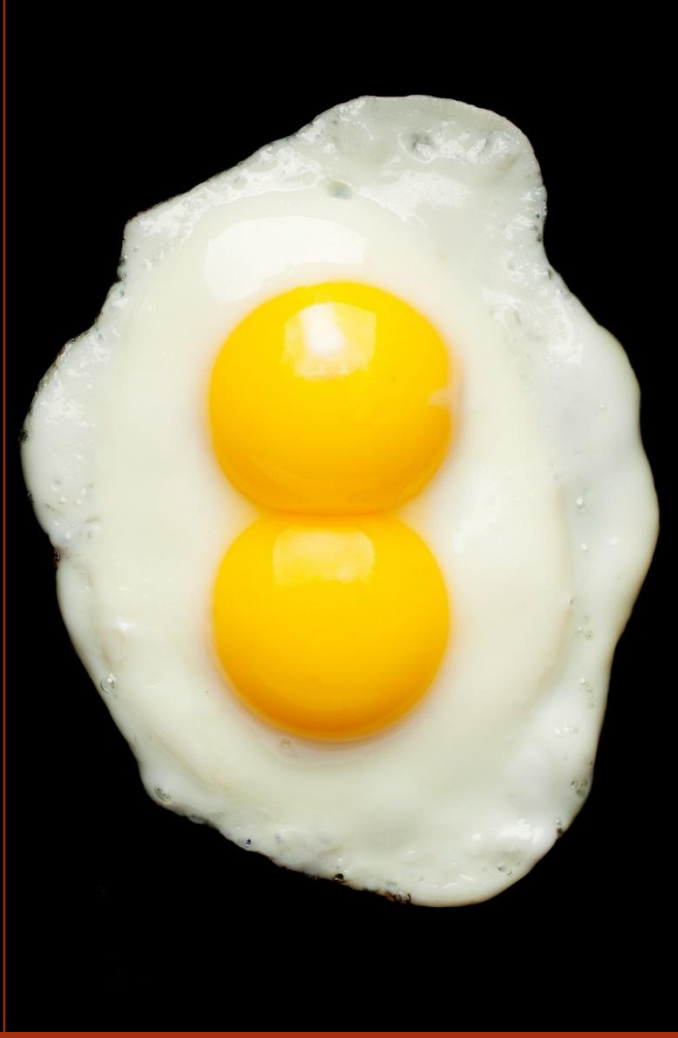
Embryology
TAXONOMY



Embryogenetic periods *EMBRYONIC*

- Cleavage
- Gastrulation
- Organogenesis





Ovulum

In the picture: A fertilized egg and a couple of yolks.

Ovulum*IMPORTANCE*

Maternal set of chromosomes

Nourishment

Protection

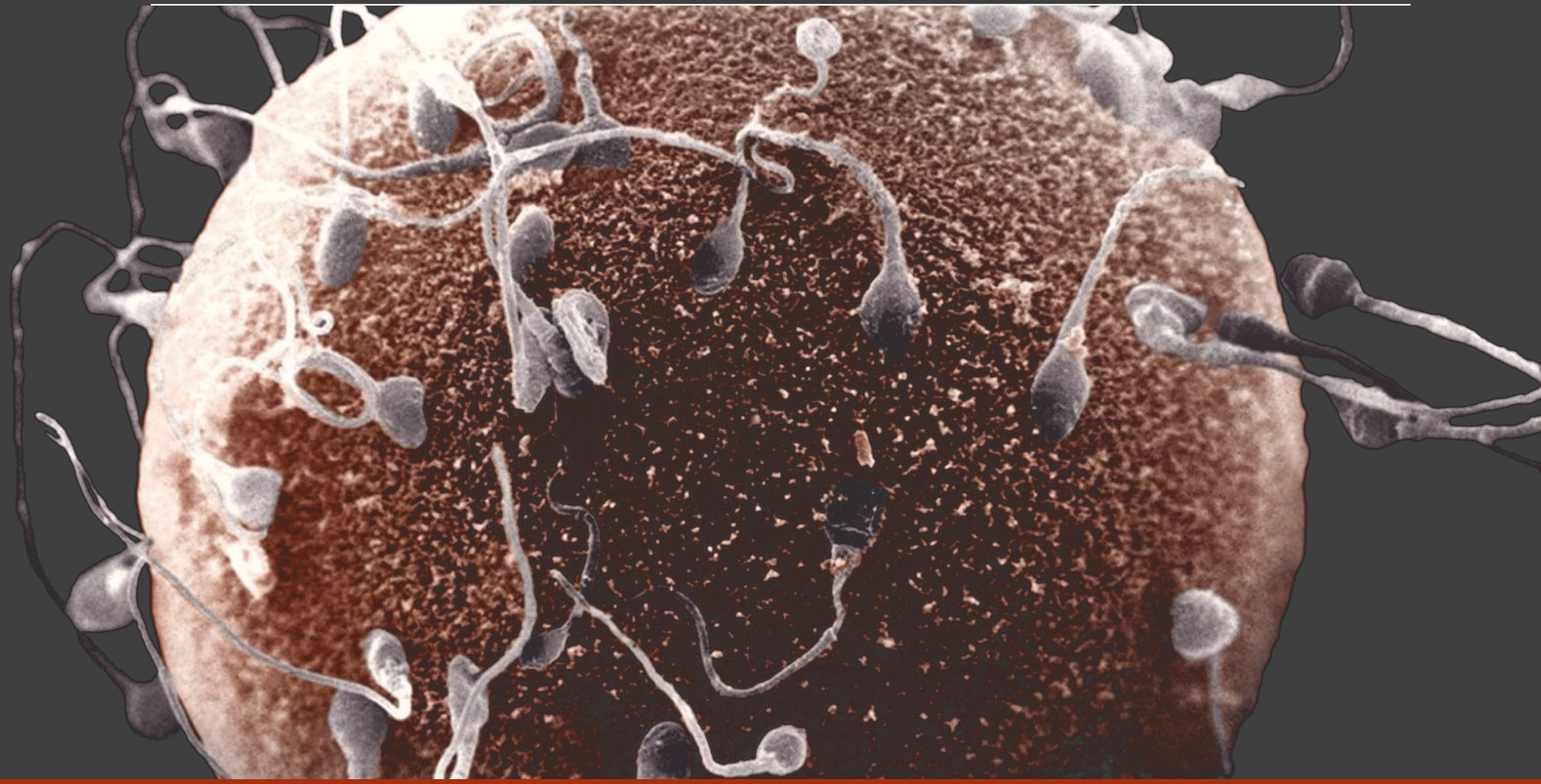
Spermatozoon

A MOTILE SPERM CELL – SPERMATOZOON

WHY IMPORTANT

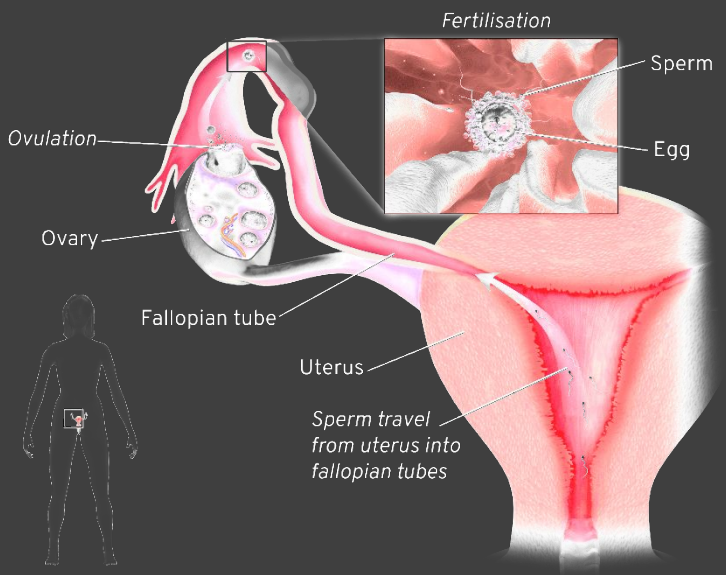
- Motile activity towards the ovulum
- Carrier of the paternal chromosome
- Baby sex determination
- Integral in mitochondrial DNA
- Part in fragmenting a signalling protein
- Completion of meiosis egg stimulation

Fertilization

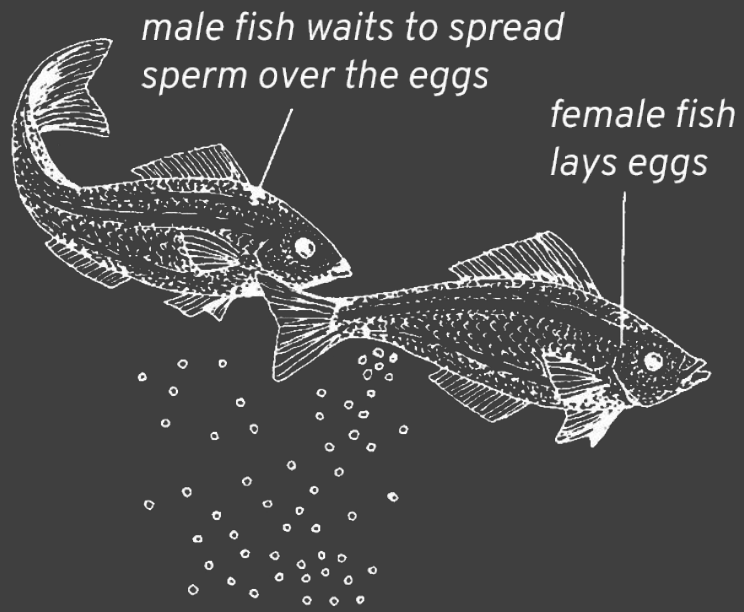


Fertilization *METHODS*

INTERNAL



EXTERNAL



Practical applications of embryology

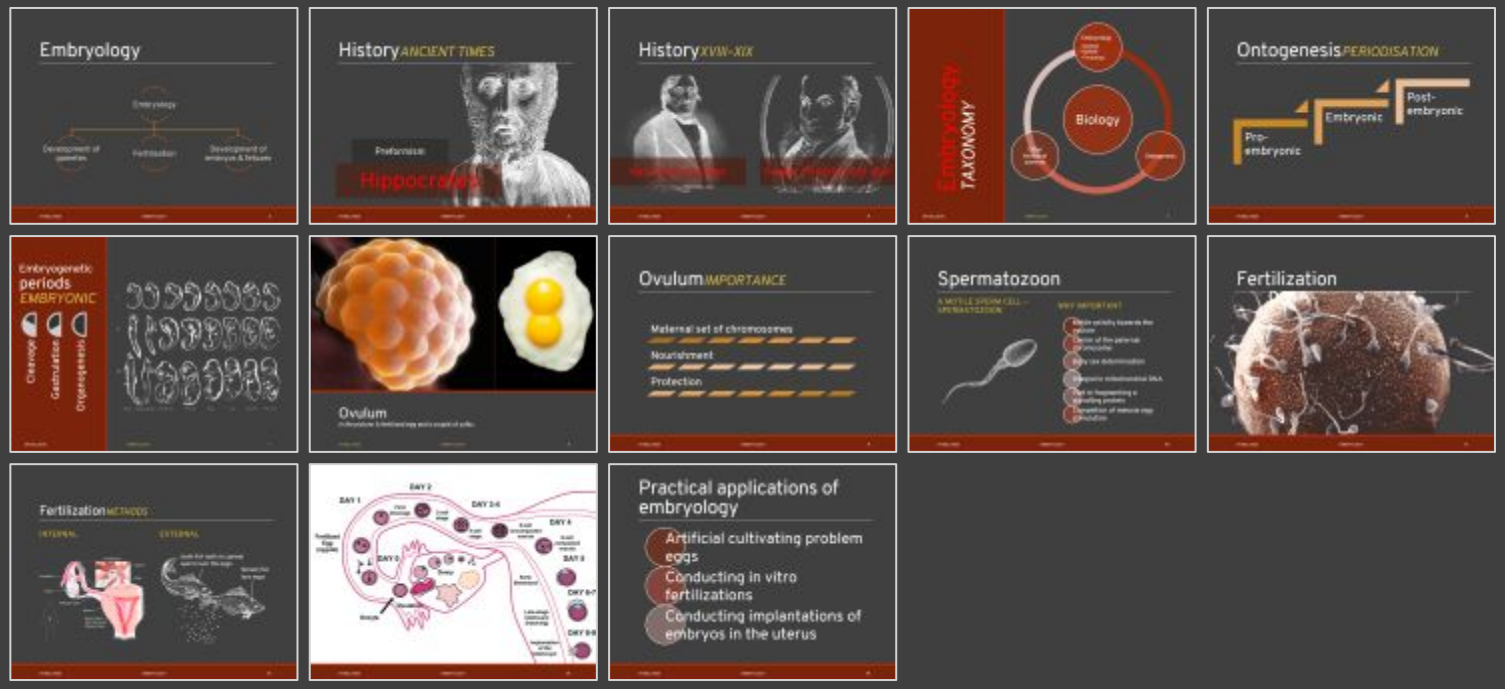
- Artificial cultivating problem eggs
- Conducting in vitro fertilizations
- Conducting implantations of embryos in the uterus

Thank you for your attention

Embryology

Performed: Student Korkunov Roman
Group 26B181(1)

Go back to...


Embryology
History ANCIENT TIMES
Hippocrates
History XVIII–XIX
Biology
Ontogenesis PERIODISATION
Pre-embryonic
Embryonic
Post-embryonic
Embryogenetic periods EMBRYONIC
Ovulum
Ovulum IMPORTANCE
Maternal set of chromosomes
Nourishment
Protection
Spermatozoon
Fertilization
Fertilization METHODS
Practical applications of embryology
Artificial cultivating problem eggs
Conducting in vitro fertilizations
Conducting implantations of embryos in the uterus

References

[1] "Embryology," 17 April 2020. [Online]. Available: https://en.wikipedia.org/wiki/Embryology. [Accessed 4 May 2020].

[2] J. Maienschein, "Epigenesis and Preformationism," 2005. [Online]. Available: https://plato.stanford.edu/archives/fall2008/entries/epigenesis/. [Accessed 4 May 2020].

[3] “Ontogeny,” Wikipedia, 16 December 2019. [Online]. Available: https://en.wikipedia.org/wiki/Ontogeny. [Accessed 4 May 2020].

[4] “The Will to Bud,” 07 March 2019. [Online]. Available: https://www.longdom.org/open-access/the-will-to-bud-25583.html, [Accessed 4 May 2020].

[5] “Germ layer,” 06 November 2009. [Online]. Available: https://www.britannica.com/science/germ-layer, [Accessed 4 May 2020].