



# Oocyte Physiology and Development in Domestic Animals

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**Oocyte Physiology and Development in Domestic Animals** From Wiley-Blackwell

*Oocyte Physiology and Development in Domestic Animals* reviews the most recent advances in the research of physiological and biochemical mechanisms underlying oocyte growth and development, providing readers with the fundamental understanding of these key processes and summarizing this important field of research. The book covers multiple molecular and physiological mechanisms including initiation of oocyte growth during folliculogenesis and in vitro follicle culture to support oocyte competence, that are critical to health and quality. Physiological process ranging from gene expression to metabolism will be covered with an eye toward using these factors to uncover biomarkers that will further advance the field. In addition, the text looks at the effects of in vitro maturation environments on oocyte quality and developmental outcome.

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## **Oocyte Physiology and Development in Domestic Animals** From Wiley-Blackwell Bibliography

- Rank: #3723162 in eBooks
- Published on: 2013-02-19
- Released on: 2013-02-19
- Format: Kindle eBook

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## **Editorial Review**

From the Back Cover

The oocyte is a complex and fascinating cell that serves as the foundation of embryonic growth. This single cell is the basis of development from a newly fertilized zygote to a functioning multicellular organism. *Oocyte Physiology and Development in Domestic Animals* provides valuable and focused coverage of the physiology and development of oocytes vital to unlocking the molecular mechanisms that control oocyte developmental competence in reproductive processes.

*Oocyte Physiology and Development in Domestic Animals* provides a wide breadth of information on physiology of oocytes. Chapters look at a variety of biochemical mechanisms at play within the oocyte during key developmental stages. Advances such as biomarker discovery and rigorous oocyte competence screening are covered as well as the molecular and systems biology approaches being implemented during *in vitro* oocyte maturation.

Providing comprehensive coverage of this advancing field of research, *Oocyte Physiology and Development in Domestic Animals* will be of interest to anyone working in the animal and reproductive sciences.

About the Author

**Rebecca L. Krisher** is Research Director at the National Foundation of Fertility Research.

## **Users Review**

**From reader reviews:**

**Kimberly Hopkins:**

The book Oocyte Physiology and Development in Domestic Animals give you a sense of feeling enjoy for your spare time. You need to use to make your capable considerably more increase. Book can being your best friend when you getting strain or having big problem together with your subject. If you can make reading a book Oocyte Physiology and Development in Domestic Animals for being your habit, you can get considerably more advantages, like add your own capable, increase your knowledge about a few or all subjects. You could know everything if you like open and read a reserve Oocyte Physiology and Development in Domestic Animals. Kinds of book are several. It means that, science e-book or encyclopedia or others. So , how do you think about this reserve?

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**Willie Thacker:**

Playing with family in the park, coming to see the coastal world or hanging out with pals is thing that usually you have done when you have spare time, and then why you don't try issue that really opposite from that. A single activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you have been ride on and with addition info. Even you love Oocyte Physiology and Development in Domestic Animals, you are able to enjoy both. It is fine combination right, you still need to miss it? What kind of hang-out type is it? Oh can occur its mind hangout men. What? Still don't have it, oh come on its identified as reading friends.

**Elizabeth Rogers:**

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