



Open Access

**Editors:**  
**Elisabetta Tosti**  
**Raffaele Boni**

eISBN: 978-1-60805-182-3

# OOCYTE MATURATION AND FERTILIZATION: A LONG HISTORY FOR A SHORT EVENT

[www.ebooks.benthamscience.com/book//9781608051823](http://www.ebooks.benthamscience.com/book//9781608051823)

## About the eBook

Events of reproduction occurring from meiotic resumption of the immature oocyte up to its exit from the second meiotic block following activation will be revealed. Morphological modifications of the oocyte during maturation will be related to signal transduction mechanisms involving primary or secondary messengers. A detailed view will be addressed to genetic and epigenetic control of oocyte maturation.

### Contents

- ▶ Electron Microscopy of Mammalian Oocyte Development, Maturation and Fertilization
- ▶ Intra- and Intercellular Molecular Mechanisms in Regulation of Meiosis in Murid Rodents
- ▶ The Enhancers of Oocyte Competence
- ▶ Meiotic Regulation by Maturation Promoting Factor and Cytostatic Factor in the Oocyte
- ▶ Gamete Binding and Fusion
- ▶ Ionic Events at Fertilization
- ▶ Recent Advances in the Understanding of the Molecular Effectors of Mammalian Egg Activation

For Advertising Inquiries: Contact: [marketing@benthamscience.org](mailto:marketing@benthamscience.org)