



# Oogenesis: The Universal Process

*Marie-Helene Verlhac, Anne Villeneuve*

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Oogenesis - the process by which female germ cells develop into mature eggs, or ova - is a complex process involving many important elements of developmental and cellular biology: from cell-cell interactions, complex signalling cascades, specialized cell cycles and cytoskeleton organization. Oocytes from various species (including clam, starfish, xenopus and mouse) are excellent model systems to study the biochemistry of cell division with important implications for basic and clinical research.

This book describes the entire process of oogenesis in chronological order with contributions from leading international researchers and chapters covering medical and ethical considerations in oogenic biology. Topics include sex determination and gonadal development, control of meiotic chromosome pairing and homologous recombination, control of meiotic divisions and the remodelling of the oocyte into a totipotent zygote as well as medically-assisted reproduction.

This volume is an essential resource for all students, researchers and clinicians in developmental and reproductive biology.

### **Key features:**

- Reaches beyond the study of simply meiosis to cover all aspects of oogenesis
- Synthesizes recent advances in the field, drawing on studies from different model species
- Chapter sequence designed to follow the time line *in vivo*
- Written by an international panel of expert researchers

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