



# Mouse Development: From Oocyte to Stem Cells (Results and Problems in Cell Differentiation)

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The mouse is a perfect model organism to study mammalian, and thus indirectly also human, embryology. Most scientific achievements that have had an important impact on the understanding of basic mechanisms governing embryo development in humans, originated from mouse embryology. Stem cell research, which now offers the promise of regenerative medicine, began with the isolation and culture of mouse embryonic stem cells by Martin Evans (who received the Nobel Prize in medicine in 2007 for this achievement) and Matthew Kaufman.

This book provides an overview of mouse development, spanning from oocytes before fertilization to the state-of-the-art description of embryonic and adult stem cells. The chapters, written by the leading specialists in the field, deal with the most recent discoveries in this extremely fast-developing area of research.

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From the reviews:

“This is a really good book for those who love developmental biology: young fellows at the beginning of their careers, esteemed professors, historians of science or fully active leading researchers. ... this book offers an up-to-date journey of mouse development, from the beginning (oogenesis) to the end (aging). A must-have for developmental biologists!” (Manuela Monti, European Journal of Histochemistry, Vol. 58, 2014)

#### **From the Back Cover**

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