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In this book, I discuss the events that occur in the normal sperm head and govern the structure-function relationship from the time of spermatogenesis to that of fertilization or egg activation. In this regard, I describe dynamic modifications and maturation events occurring in sperm-head components and compare the outcomes of these events with the

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outcomes of their failure.

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Expand/Collapse Synopsis Mammalian spermatozoa have complex structures. The structure-function relationship of sperm has been studied from various viewpoints. Accumulated evidence has shown that the sperm components undergo sequential changes from the beginning of spermatogenesis to the time of fertilization/embryogenesis.

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during fertilization to produce the diploid zygote. In mammals complex changes in the plasma membrane of the sperm cell are involved in this process. Sperm cells have unusual membranes compared to those of somatic cells. After leaving the testes, sperm cells cease plasma membrane lipid and protein synthesis, and vesicle mediated transport.

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Fertilization occurs when the sperm penetrates the egg, resulting in the combination of paternal and maternal genomes for the propagation of generations. To perform the task, the

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mammalian sperm membrane system, constructed during spermatogenesis, undergoes biochemical and cytological modifications.

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With this approach, a logical and easy to follow buildup can be made of the general picture of sperm surface dynamics and of the ergonomics of sperm physiology and their function in mammalian fertilization. Understanding the ins and outs of sperm surface biology and the dynamics thereof, might challenge future researchers to design novel ...

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## **Dynamics of the membrane system | SpringerLink**

Dynamics of the mammalian sperm head : modifications and maturation events from spermatogenesis to egg activation. [Kiyotaka Toshimori] -- In humans, male infertility is caused by a number of factors such as the external environment, nutrient changes, genotoxins, and mutagens.

## **Dynamics of the mammalian sperm head : modifications and ...**

The Mammalian Sperm Epigenome Epigenetics (from “epi” in Greek which means above/upon/near) is the study of heritable changes in gene expression



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that are not caused by modifications in the primary DNA sequence (Goldberg et al., 2007). Epigenetic information is cell specific, dynamic and responsive to environmental influences.

## **Frontiers | A Decade of Exploring the Mammalian Sperm ...**

Mammalian spermatozoa have complex structures. This book discusses the events that occur in the normal sperm head and govern the structure-function relationship from the time of spermatogenesis to that of fertilization or egg activation.

## **Dynamics of the mammalian sperm head : modifications and ...**

In mammals, a sperm-specific phospholipase C zeta is introduced into the oocyte cytoplasm upon fertilization and participates in the generation of IP 3 [109, 110]. In a study of hamster oocytes, microinjection of IP 3 causes intracellular calcium release and induces cortical granule to undergo exocytosis

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[105, 106].  
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