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Oogenesis, in the human female reproductive system, growth process in which the primary egg cell (or ovum) becomes a mature

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ovum. In any one human generation, the egg ' s development starts before the female that carries it is even born; 8 to 20 weeks after the fetus has started to grow, cells that are to become mature ova have been multiplying, and by the time that the female is born, all of the egg cells that the ovaries will release during the active reproductive years of the female are ...

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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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This new edition covers the development, biology and pathology of the oocyte, and technologies to manipulate, enhance and control fertility.

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

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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.

Knowledge of wild chimpanzees has expanded dramatically. This volume, edited by Martin Muller, Richard Wrangham, and David Pilbeam, brings together scientists who are leading a revolution to

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discover and explain human uniqueness, by studying our closest living relatives. Their conclusions may transform our understanding of human evolution.

This topical volume in the respected Encyclopedia series is the first in many years to bring together all important aspects of developmental biology in one source, from morphogenesis and organogenesis, via epigenetic regulation of gene expression to evolutionary developmental biology. The editor-in-chief has assembled an outstanding team of contributors to review these topics, creating an authoritative work for many years to come. The result is a unique, top-level reference in developmental biology

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for researchers, students and professionals alike.

The greatest mystery of life is how a single fertilized egg develops into a fully functioning, sometimes conscious multicellular organism. Embryogenesis Explained offers a new theory of how embryos build themselves, and combines simple physics with the most recent biochemical and genetic breakthroughs, based on the authors' prediction and then discovery of differentiation waves. They explain their ideas in a form accessible to the lay person and a broad spectrum of scientists and engineers. The diverse subjects of development, genetics and evolution, and their physics, are brought together to explain this

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major, previously unanswered scientific question of our time. As a follow up on The Hierarchical Genome, this book is a shorter but conceptually expanded work for the reader who is interested in science. It is useful as a starting point for the curious layman or the scientist or professional encountering the problem of embryogenesis without the formal biology background. There is also material useful for the seasoned biologist caught up in the new rush of information about the role of mechanics in developmental biology and cellular level mechanics in medicine.

The Fourth Edition of Knobil & Neill continues to serve as a reference aid for research, to

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provide the historical context to current research, and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction. In the decade since the publication of the last edition, the study of reproductive physiology has undergone monumental changes. Chief among these advances are in the areas of stem cell development, signaling pathways, the role of inflammation in the regulatory processes in the various tissues, and the integration of new animal models which have led to a greater understanding of human disease. The new edition synthesizes all of this new information at the molecular, cellular, and organismal levels of organization and present modern

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physiology a more understandable and comparative context. The Fourth Edition has been extensively revised, reflecting new fundamental advancements in this rapidly advancing field. Provides a common language for researchers across the fields of physiology, endocrinology, and biology to discuss their understanding of reproduction. Saves academic researchers time in quickly accessing the very latest details on reproductive physiology, as opposed to searching through thousands of journal articles.

Internal fertilization is universal in chondrichthyan fishes and, as such, requires a suite of biological activities, including behavioral, morphological and physiological

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mechanisms, to ensure successful copulation and fertilization. This volume correlates available data and ideas concerning the development, reproductive morphology, function, and

Providing a comprehensive review of the interactions between exercise and human reproduction, this unique text focuses on both the positive and negative consequences of sport and physical activity on male and female fertility and infertility and the biological mechanisms and processes behind them. Beginning with a review of the structure and function of the male and female reproductive systems as well as fertilization and gestation, the discussion then turns to the

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physiology and endocrinology of sport and exercise, which is further elaborated in subsequent chapters on the impact of physical activity, hormonal changes, pathologies, and consequences of drug use for active men and women. Additional chapters address related topics, such as the impact of sport on young athletes and developing reproductive potential, physical activity and pregnancy, the use of oral contraceptives in athletes, oxidative stress, and the impact of nutritional deficiencies on athletes' fertility, with a final chapter providing recommendations and therapeutic guidelines for exercise-related reproductive disorders. Covering everything from the fundamental

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principles of sports physiology and human reproductive potential to the interaction between physical exercise and the endocrinology of the reproductive system, Exercise and Human Reproduction is an authoritative resource for helping clinicians understand how the reproductive system adapts to activity and exercise and offers strategies to avoid potential harm to human reproduction.

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