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Effects of Long-term Low-dose Exposure to Organophosphates on Mouse Sperm Quality Michael David Oswalt,1992

The Sperm Cell Christopher J. De Jonge,Christopher L. R. Barratt,2017-05-25 This revised and updated second edition provides a comprehensive account of the human male gamete. Detailed overviews of human sperm production, maturation, and function - and how these processes affect and influence fertility, infertility, and assisted reproduction - are given. A wide range of new developments including proteomics, spermatogenesis, sperm-specific WW domain-binding proteins, Ca²⁺ signalling, DNA packaging, epididymis are explored, whilst a new chapter presents information gained from mouse genetics, highlighting how it informs male fertility research. The impact of environmental factors during pre-pubertal and pubertal stages of life is also investigated. Featuring engaging prose with chapters organized topographically, The Sperm Cell remains an essential resource for andrologists, clinical scientists, and laboratory personnel.

Molecular Biology of The Cell Bruce Alberts,2002

XIIIth International Symposium on Spermatology Lars Björndahl,John Flanagan,Rebecka Holmberg,Ulrik Kvist,2021-07-22 These proceedings of the 2018 XIII International Symposium on Spermatology focus on comparative biology, and encourages discussion and the exchange of ideas. The aim of this Symposium was to provide a unique opportunity and bring together scientists from a wide spectrum of research fields – human, domestic animals and other mammals, vertebrates, insects, and plants. The underlying focus is on the function of the spermatozoon – a common feature for sexual reproduction, but extremely varied. By exploring the variability, a better understanding of male reproductive functions can develop. These proceedings address the mechanisms of physiology and pathophysiology, rather than diagnosis and treatment. The symposium featured keynote lectures by invited speakers, followed by presentations on specific aspects of the general topic of the session. Experimental studies are given priority over clinical studies of patient populations. The proceedings comprise both keynote speakers' texts and selected free communications. Posters were considered for publication in the proceedings, and the volume includes exhibited materials on the work of prominent spermatologists, highlighting their important past achievements in the field.

Sperm Competition in Dear Mice (genus Peromyscus) Anna C. Bree,2008

Role of Reactive Oxygen Species on Mouse Sperm Hyperactivation and Capacitation Hong Jiang,1994

Genetics of Human Infertility P.H. Vogt,2017-09-12 Infertility affects more than one in ten couples worldwide and is related to highly heterogeneous pathologies sometimes only discernible in the germ line. Its complex etiology often, but not always, includes genetic factors besides anatomical defects, immunological interference, and environmental aspects. Nearly 30% of infertility cases are probably caused only by genetic defects. Thereby experimental animal knockout models convincingly show that infertility can be caused by single or multiple gene defects. Translating those basic research findings into clinical studies is challenging, leaving genetic causes for the vast majority of infertility patients unexplained. Nevertheless, a large number of candidate genes have been revealed by sophisticated molecular methods. This book provides a comprehensive overview on the subject of infertility written by the leading authorities in this field. It covers topics including basic biological, cytological, and molecular studies, as well as common and uncommon syndromes. It is a must-read for human geneticists, endocrinologists, epidemiologists, zoologists, and counsellors in human genetics, infertility, and assisted reproduction.

Sexual Reproduction in Animals and Plants Hitoshi Sawada,Naokazu Inoue,Megumi Iwano,2014-02-07 This book contains the proceedings of the International Symposium on the Mechanisms of Sexual Reproduction in Animals and Plants, where many plant and animal reproductive biologists gathered to discuss their recent progress in investigating the shared mechanisms and factors involved in sexual reproduction. This now is the first book that reviews recent progress in almost all fields of plant and animal fertilization. It was recently reported that the self-sterile mechanism of a hermaphroditic marine invertebrate (ascidian) is very similar to the self-incompatibility system in flowering plants. It was also found that a male factor expressed in the sperm cells of flowering plants is involved in gamete fusion not only of plants but also of animals and parasites. These discoveries have led to the consideration that the core mechanisms or factors involved in sexual reproduction may be shared by animals, plants and unicellular organisms. This valuable book is highly useful for reproductive biologists as well as for biological scientists outside this field in understanding the current progress of reproductive biology.

Comparison of the Genotoxic Properties of the 2-haloethanols in the Mouse Sperm Abnormality Test and the Ames Salmonella/mammalian-microsome Test Ann de Peyster,1979

An Improved Method for the Artificial Insemination of Mice J. C. Kile,1950

Human Sperm Acrosome Reaction Patrick Fénichel,Jean Parinaud,1995 This valuable reference work provides a synthesis of the latest knowledge about the acrosomatic reaction of human sperm. The acrosomatic reaction, which is a fundamental step in the process of fertilisation, is examined on both the fundamental and clinical levels. Three very recent aspects are also dealt with: what happens to the acrosome during intracytoplasmic

microinjections, the usefulness of screening spermatozoa that have completed their acrosomatic reaction, and the development of contraception by a vaccine that targets one of the proteins of the acrosome. International Symposium, Collioure, France, September 1995.

Sperm Biology Tim R. Birkhead,Dave J. Hosken,Scott S. Pitnick,2008-11-21 Sperm Biology represents the first analysis of the evolutionary significance of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm-egg coevolution. An understanding of sperm evolution is fast developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome, the sperm genome and the quantitative genetics of sperm. The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this bizarre, fascinating and important subject. It comprises the most comprehensive and up-to-date review of the evolution of sperm and pointers for future research, written by experts in both sperm biology and evolutionary biology. The combination of evolution and sperm is a potent mix, and this is the definitive account. The first review survey of this emerging field Written by experts from a broad array of disciplines from the physiological and biomedical to the ecological and evolutionary Sheds light on the intricacies of reproduction and the coevolution of sperm, egg and reproductive behavior

Sperm Acrosome Biogenesis and Function During Fertilization Mariano G. Buffone,2016-05-19 Over the last decades, acrosomal exocytosis (also called the “acrosome reaction”) has been recognized as playing an essential role in fertilization. Secretion of this granule is an absolute requirement for physiological fertilization. In recent years, the study of mammalian acrosomal exocytosis has yielded some major advances that challenge the long-held, general paradigms in the field. Principally, the idea that sperm must be acrosome-intact to bind to the zona pellucida of unfertilized eggs, based largely on in vitro fertilization studies of mouse oocytes denuded of the cumulus oophorus, has been overturned by experiments using state-of-the-art imaging of cumulus-intact oocytes and fertilization experiments where eggs were reinseminated by acrosome-reacted sperm recovered from the perivitelline space of zygotes. From a molecular point of view, acrosome exocytosis is a synchronized and tightly regulated process mediated by molecular mechanisms that are homologous to those reported in neuroendocrinal cell secretions. The authors provide a broader perspective, focusing on a limited number of important topics that are essential for understanding the molecular mechanisms governing this step in the fertilization process. They also discuss molecular aspects such as the signaling pathways leading to exocytosis, including the participation of ion channels, lipids, the fusion machinery proteins and the actin cytoskeleton as well as cellular aspects such as the site of acrosomal exocytosis and the use of gene-manipulated animals to study this process.

Fertilization Daniel M. Hardy,2002 Gamete reansport / Susan S. Suarez -- Sperm motility activation and chemoattraction / Timothy A. Quill and David L. Garbers -- Capacitation / Bijay S. Jaiswal and Michael Eisenbach -- Function of the egg's extracellular matrix / Richard A. Cardullo and Catherine D. Thaler -- Sperm adhesion to the extracellular / Ming Bi, Michael J. Wassler, and Daniel M. Hardy -- Signal transduction mechanisms regulating sperm acrosomal exocytosis / Gregory S. Kopf -- Regulation of sperm ion currents / Alberto Darszon, Felipe Espinosa, Blanca Galindo, Daniel Sánchez, and Carmen Beltrán -- Function of the sperm acrosome/ George L. Gerton -- Gamete fusion in mammals / Paul Primakoff and Diana G. Myles -- Membrane events of egg activation / Karl Swann and Keith T. Jones -- Molecular genetics of fertilization / Patricia Olds-Clarke and Stephen H. Pilder - - Gemete immunobiology / M.G. O'rand and I.A. Lea -- Fertilization biophysics / D.P.L. Green -- Applications of fertility regulation for the management of ...

Gametes – The Spermatozoon Jurgis Gediminas Grudzinskas,J. L. Yovich,1995-09-07 This is detailed, comprehensive and timely account of the spermatozoon and its reproductive function.

Physiological and Toxicological Effects of Caffeine, Hoechst 33258 and Toluene on Mouse Fertilization in Vitro Frank D. Yelian,1991

The Molecular and Cellular Biology of Fertilization Jerry L. Hedrick,2013-03-07

Characterization of the Lipid Composition of Washed and Percoll Gradient Centrifuged Epididymal Mouse Sperm Anna Furimsky,2001

Roles of Adam Family Proteins and Egg Integrins in Mouse Sperm-egg Plasma Membrane Adhesion and Fusion Ruiyong Yuan,1998

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Bringing up boys : Dobson, James C., 1936 Aug 25, 2020 — x, 269 pages ; 24 cm. One of the country's most respected parenting experts & bestselling author of Dare to Discipline, offers advice ... Raising Boys: Routine Panic - Part 1 (Transcript) James Dobson, interacting with the studio audience during his Bringing Up Boys ... Or call us toll free, (877) 732-6825. I pray that God will bless you in 2020 ... Bringing up boys : Dobson, James C., 1936 May 11, 2022 — Publication date: 2001 ; Topics: Parenting -- Religious aspects -- Christianity, Boys -- Religious life ; Publisher: Wheaton, Ill. : Tyndale House ... Bringing Up Boys: Dobson, James C. In the runaway bestseller Bringing Up Boys, Dr. Dobson draws from his experience as a child psychologist and family counselor, as well as extensive research, to ... Bringing up Boys - James Dobson.pdf Mar 17, 2022 — Online file sharing and storage - 10 GB free web space. Easy registration. Share your files easily with friends, family, and the world on ... Bringing Up Boys by James Dobson on Free Audio Book ... "Bringing Up Boys"--a must-read book for parents, teachers, social workers, youth leaders, counselors--anyone involved in the challenge of turning boys into ... Raising Boys - Part 1 with Dr. James Dobson's Family Talk Bringing Up Boys Sep 1, 2014 — Sensible advice and caring encouragement on raising boys from the nation's most trusted parenting authority, Dr. James Dobson. Bringing Up Boys Listen Free to Bringing Up Boys audiobook by James C.

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