

Handbook of Experimental Pharmacology 198

Ursula-F. Habenicht
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Editors

Fertility Control



Springer

Fertility Control Handbook Of Experimental Pharmacology

Christina D. Buesching



Fertility Control Handbook Of Experimental Pharmacology:

Fertility Control Ursula-F. Habenicht, Robert John Aitken, 2010-09-14 The world's population is growing at an unsustainable rate. From a baseline figure of one billion in 1800, global population is predicted to exceed nine billion by 2050, and 87.8% of this growth will be localized in less developed countries. Such uneven population growth will yield a harvest of poverty, malnutrition, disease, and environmental degradation that will affect us all. Amongst the complex mixture of political, social, cultural, and technological changes needed to address this issue, the development of improved methods of fertility regulation will be critical. The inadequacy of current contraceptive technologies is indicated by recent data suggesting that the contraceptive needs of over 120 million couples go unmet every year. As a direct consequence of this deficit, 38% of pregnancies are unplanned, and more than 50% end in an abortion, generating a total of 46 million abortions per annum, particularly among teenagers. If safe, effective contraceptives were available to every couple experiencing an unmet family planning need, 1.5 million lives would be saved each year. UNFPA 2003. Progress in contraceptive technology should not only generate more effective methods of regulating fertility but should also provide a range of methods to meet the changing needs of the world's population. Contraceptive practice was revolutionized in 1960 in the US and 1961 in Europe by the introduction of the oral contraceptive pill by Gregory Pincus. MC Chang and colleagues, based on fundamental hormone research conducted in Germany.

Reactive Oxygen Species and Male Fertility Cristian O'Flaherty, 2020-12-02 Reactive oxygen species (ROS) are inevitable by-products of aerobic cells. A delicate balance between ROS production and antioxidant defences is essential to assure cell function. This requirement is also true for the spermatozoon, the male gamete, with the unique goal of carrying and delivering the paternal genome into the oocyte. Oxidative stress promotes damage in lipids, proteins, and DNA of spermatozoa, and this oxidative damage is associated with infertility. The ROS-dependent damage could occur at different stages of the production and maturation of the sperm. On the other hand, low and controlled levels of ROS are necessary to trigger and regulate sperm function. When ejaculated spermatozoa are incapable of fertilizing the egg, they must reside in the oviduct of the female genital tract to undergo a yet-to-be-understood biochemical process called capacitation. Once capacitated, the spermatozoon undergoes the exocytotic event called acrosome reaction and fertilizes the oocyte. ROS regulate the different molecular mechanisms such as sperm motility, capacitation, and acrosome reaction to assure fertilization. This Special Issue includes original research and reviews of literature concerning the role of reactive oxygen species in male reproduction, particularly the role of antioxidants in the regulation of male fertility, as well as basic and clinical studies using antioxidant-based strategies for the treatment of male infertility.

Chemical Signals in Vertebrates 14 Christina D. Buesching, 2019-07-19 In August 2017, the Chemical Signals in Vertebrates CSiV group held its 14th triennial meeting at Cardiff University in Wales. This well-established international conference brings together leaders and students in the field of olfactory communication and chemical signaling of vertebrates to present new advances in their

research as well as synopses of disparate areas under new angles This volume is a collection of the proceedings of this meeting authored by leading experts in this field that covers a wide variety of topics in chemical ecology **Advances in Ovum Research and Application: 2011 Edition** ,2012-01-09 Advances in Ovum Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Ovum The editors have built Advances in Ovum Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Ovum in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Ovum Research and Application 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Becoming Female And Male Ramon Piñon Jr.,2018-08-31 Becoming Female and Male Our Extraordinary and Perilous Journey focuses on critical aspects in the development and biology of our reproductive system A wealth of information not readily available to the general reader is complemented with a rich assortment of historical perspectives and commentaries It begins with the amazingly complex seemingly miraculous processes that lead to the formation of the eggs and sperm follows the fetal development of the genital tissues the post pubertal reproductive functions of females and males the pubertal transition and finally our reproductive twilight The next section focuses on fertilization and implantation birth and lactation and exciting new studies relating the origins of chronic adult diseases to our pre birth environment in the womb The third section covers pregnancy loss and birth defects while the final section reviews birth control methods the causes of infertility and the new growth industry assisted reproduction In addition three appendices supplement the main text and provide more detailed information about sex chromosomes mutations hormonal integration of the reproductive system and disorders of sexual development

Immunology of Gametes and Embryo Implantation Udo R. Markert,2005-01-01 This book provides an overview of the current knowledge of physiological and pathological immune reactions which favor or disturb fertility The regulation of embryo implantation and trophoblast invasion through cytokines growth factors and other pregnancy related immunoregulatory molecules is described in detail Autoimmunity and allergy are presented as possible causes of reproductive failure

Drug Delivery Monika Schäfer-Korting,2010-03-10 In the view of most experts pharmacology is on drugs targets and actions In the context the drug as a rule is seen as an active pharmaceutical ingredient and not as a complex mixture of chemical entities of a well defined structure Today we are becoming more and more aware of the fact that delivery of the active compound to the target site is a key The present volume gives a topical overview on various modern approaches to drug targeting covering today s options for specific carrier systems allowing successful drug treatment at various sites of the body difficult to address and allowing to

increase the benefit risk ratio to the optimum possible Hormonal Steroids V. H. T. James, J. R. Pasqualini, 2013-10-22
Hormonal Steroids contains the plenary and symposium lectures delivered to the Fifth International Congress on Hormonal Steroids held at New Delhi on October 30 to November 4 1978 The plenary lectures include biochemical actions of trophic hormones and steroids on steroid production and spermatogenesis in testes chemical reactions of steroids which imitate the selectivity of enzymatic transformations and human chorionic gonadotrophin and ovarian and placental steroidogenesis Symposia papers comprise of water soluble steroidal anesthetics quality control of radioimmunoassay of hormones in reproductive physiology automation of steroid radioimmunoassay for clinical and research purposes non radioisotopic homogeneous steroid immunoassays mechanisms involved in the regulation of steroid receptor levels and metabolic effects of corticosteroid therapy in post menopausal women **Pathophysiologic, Diagnostic and Therapeutic Aspects of**

Headache M. E. Granger, G. Poch, 1976-03-15 Laboratory Manual of Social Pharmacy Dr. Remeth J. Dias, Dr. Kuldeep U. Bansod, Dr. Prashant D. Aragade, Dr. Vishwajeet S. Ghorpade, 2023-09-28 We are pleased to put forth the revised edition of Laboratory Manual of Social Pharmacy This manual is prepared as per the PCI Education Regulations 2020 for Diploma in Pharmacy This laboratory manual is intended to give broad knowledge of social pharmacy and the role of pharmacists in various health care services The practicals included are the services provided by the government or private health care industries that are not known to the common public This manual will create emphasis on that and make students think of it search it brainstorm it and use this information to counsel the community In addition some of the experiments are on health and hygiene that help to prevent the various communicable diseases and maintain personal hygiene Moreover the role of pharmacist in various scenes is identified and communicated to the students so the students are aware of it and demonstrate these skills to the society when necessary We have incorporated all the suggestions modified it to make it easier student friendly and relevant in terms of achieving curriculum outcome We are very much thankful to all the learned teachers who have given their feedback whole heartedly This manual is designed for outcome based education and each experiment is arranged in a uniform way such as practical significance practical outcomes PrOs and its mapping with course outcomes minimum theoretical background resources used procedure precautions observations result conclusion references and related questions Moreover assessment scheme is also given to help the student and teacher to know what to be assessed This manual is a sincere effort to improve the community and social oriented skills in the pharmacy students The students have to perform tasks in each experiment like visiting the PHC pharmacy community pharmacy hospital searching on the WHO websites etc to make this manual interesting for the students and teachers This manual asks the student to prepare various promotional materials of the health care services and hygienic care required to be taken by the society for a healthier and happier community life We acknowledge the help and cooperation extended by various persons in bringing out this manual We are highly indebted to the authors of various books and articles mentioned in references of each experiment

which became a major source of information for writing this manual We also admire the publishers designers and printers who graciously worked hard to publish this manual

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