

# Read Free Disorders Of The Placenta Fetus And Neonate Diagnosis And Clinical Significance Read Pdf Free

Vascular Biology of the Placenta The Placenta Pathology of the Placenta The Evolution of the Human Placenta Pathology of the Placenta Pathology of the Placenta The Placenta Manual of Pathology of the Human Placenta Placenta Pathology of the Human Placenta, 5th Edition Benirschke's Pathology of the Human Placenta Pathology of the Human Placenta Life's Vital Link Fetal Nutrition, Metabolism, and Immunology Placental and Gestational Pathology with Online Resource The Human Placenta The Pathology of the Human Placenta Lectures on the Comparative Anatomy of the Placenta Placenta Placenta Morphometry of the Placental Exchange Area Placenta and Trophoblast Pathology of the Placenta Vascular Biology of the Placenta The Placenta Clinical Pathology of the Placenta Diagnostic Pathology: Placenta E-Book Placenta Wit: Mothers Stories, Rituals and Research Observations on the Placenta of the Rabbit The Placenta and Human Developmental Programming Placenta - The Forgotten Chakra HIV, Perinatal Infections, and Therapy The Guide to Investigation of Mouse Pregnancy The Guinea-Pig Placenta The Human Placenta in Health and Disease , An Issue of Obstetrics and Gynecology Clinics Morphofunctional Characteristics of the Placenta in Norm and at Cytomegalovirus Infection Placenta and Trophoblast Placental Vascularization and Blood Flow Like a Mother Human Placenta

Morphometry of the Placental Exchange Area Aug 10 2021 Considering the placenta from the functional point of view as an exchange organ between mother and foetus, it is noteworthy that placentas of all types have a common structural principle in that all placentas have structures enlarging the surface area available for exchange, as is also the case with other organs with similar functions, such as the lungs, kidneys and intestine. It may therefore be assumed that a quantitative relationship must exist between the structure of the placenta and its function. Accurate information on this relationship could contribute to better understanding of the placenta and of its function. The study of this relationship requires quantitative physiological and morphological data. Detailed data on quantitative morphology (morphometry) are available mainly for the human placenta. Even these data, however, are rather sparse as far as the early stages of development are concerned, because most studies relate to full term placentas (see Aherne, 1975; Bender et al., 1974; Laga et al., 1973; Geissler et al., 1972; Baur, 1972; Cattoor, 1967; Aherne and Dunnill, 1966). We know of only a few morphometric studies concerned with placentas of other animal species. These studies relate to investigations on the development of the placenta of sheep (Stegeman, 1974) and of cattle (Baur, 1972), and measurements carried out on full term placentas of the guinea pig (Millier et al., 1967) and on full term placentas of various other species (Baur, 1973).

Diagnostic Pathology: Placenta E-Book Feb 04 2021 Part of the highly regarded Diagnostic Pathology series, this updated volume covers all aspects of placental pathology and the critical role the placenta plays in the unique interface between mother and fetus. Concise, focused chapters, supported by tables, diagrams, and photographs, keep you up-to-date with evolving changes in the questions and issues concerning both the fetus/infant and the mother. This revised edition is ideal for pathologists at all levels of experience and training for use as a quick reference and as an efficient review to improve knowledge and skills. Provides clear and concise information on gross and microscopic changes of the placenta, common diagnoses, and placental evaluation in special circumstances Includes updated terminology and diagnostic criteria, new recommendations for the use of molecular techniques such as SNP array or whole genome sequencing for evaluation of stillbirth, and more images to illustrate challenging diagnoses Contains new chapters on pathology of maternal mortality, complications of twin pregnancies, and hypoxic-ischemic encephalopathy, as well as expanded chapters on gestational trophoblastic disease and new coverage of twin anemia polycythemia sequence (TAPS) Covers pregnancy complications such as preeclampsia, intrauterine growth restriction, and multiple gestations, highlighting placental findings, key correlates, relevant fetal organ pathology, and the pathology of the postpartum hysterectomy Time-saving reference features include bulleted text, annotated images, reference tables for placental evaluation, and sample templates useful for gross and microscopic placental description

The Guinea-Pig Placenta Jun 27 2020 The placenta of the guinea-pig has assumed exceptional importance among the discoidal hemochorial placentae since the end of the sixties. Up to that date, numerous studies had been published on the functional analysis of the human placenta. One shortcoming common to all these studies, however, was the fact, that the human placenta was not absolutely suitable for morphological research, owing to fixation difficulties, and for experimental investigations virtually unsuitable. Since other hemochorial villous placentae, like that of the anthropoid apes (primates) were practically unobtainable, a possible alternative was sought among the lacunal placentae. The numerous studies on the guinea-pig placenta undertaken at the turn of the century favoured the choice of this organ as it also belonged to the discoidal hemochorial type, like that of man. The fact that its structure was not villous but lacunal and therefore showed a different circulation seemed even advantageous in this case. The lacunal system facilitates differentiation in morphologically distinct areas, which allow independent functional analysis. The morphological and histochemical studies made during the past decade by Enders (1965), Vollrath (1965), Müller and Fischer (1968), Kaufmann (1969a), Davidoff and Schiebler (1970a, b), King and Enders (1970b, 1971), Davidoff and Gospodinoff (1971), Davidoff (1973), Kaufmann (1974) have led to the discovery of a large amount of new information on this organ, thus rendering it one of the most precisely examined placentae so far.

Pathology of the Placenta Jun 08 2021 Here's the 2nd Edition of an authoritative source covering the investigation and diagnosis of maternal and fetal disorders of placental origin. Offers a detailed

reference account of all aspects of placental pathology. Thoroughly illustrated, it also features a new section on medico-legal aspects. Volume 7 in the Major Problems in Pathology Series  
**Clinical Pathology of the Placenta** Mar 05 2021 This book performs a distinct introduction to the pathology of the placenta and its membranes, abortion material included, with the aim to facilitate and protect the quality of the morphological placental diagnostics by the pathologists. Seven chapters with coloured figures illustrating gross anatomy, development and maturation of the placenta explain the functional morphology in its clinical correlation of single and multiple findings for the pathologists, obstetricians and neonatologists. Moreover, the book contributes to a better understanding of pre- and perinatal investigations, maternal diseases, fetal outcomes and follow up of the newborns, as well as to the prevention of worse outcome in further pregnancies. The atlas intends to stimulate the interest for perinatal pathology and to contribute to a better interdisciplinary understanding of pathologists and clinicians, midwives and nurses.

**Placental Vascularization and Blood Flow** Feb 22 2020 The optimal function of the placenta and thus fetal well being largely depends upon the integrity of both the fetal and maternal circulations of the placenta. Intense basic research concerned with placental vascularization and blood flow has been performed for the past 30 years, beginning with the classical morphological descriptions of the placental vessels by Boe (1953) and Arts (1961), as well as with the radioangiographic studies of maternal placental circulation in the human by Borell (1958) and in the rhesus monkey by Ramsey (1962). The scientific framework presented by these investigators has been filled and completed by numerous investigators, leading to more morphological details, functional considerations, and pathological understanding. For an extended period of time, this research has been of primarily academic interest by increasing our insights into one important system of the placenta, yet having nearly no practical importance. Recently, this situation has changed dramatically: in vitro studies of the isolated, dually perfused human placenta and in vivo studies of placental circulation for diagnostic purposes have raised an enormous interest in basic research data. New methods like Doppler Ultrasound and NMR became available. These techniques have enabled the obstetrician to study fetal and placental hemodynamics in vivo. Meanwhile, such methods are becoming incorporated into the daily obstetrical routine, to some degree without an adequate background knowledge of placental vascularization and blood flow, since such experience is currently available to only a small group of experts.

**Life's Vital Link** Apr 18 2022 The development of the placenta was a pivotal event in evolution. Without it, we would still be laying eggs instead of giving birth to live offspring. It represents the critical link between the foetus and the mother, but its character is extraordinary — it is, in effect, a foreign tissue that invades the mother's body. Compared to many other animals, the human placenta represents a particularly aggressive body. But how is it managed and controlled? How did such an organ evolve in the first place? And why is it tolerated by the mother? Y.W. Loke explores the nature of the placenta and what it can tell us about evolution, development, and genetics.

Pathology of the Placenta Dec 26 2022 Here's the completely revised, updated and expanded 2nd Edition of this definitive reference on placental pathology. Presents reliable, step-by-step guidance on placental examination techniques, and also examines infection and multiple gestations. This comprehensive edition features a new chapter on ultrasound, which provides critical antenatal information not available in pathology texts, and also features a chapter detailing the latest information on molecular biology. Breaks down the complexities of placental pathology into the components of structure and function, followed by specialty topics to make this material easy to grasp and apply. Provides step-by-step guidance to placental examination techniques. Examines infection and multiple gestations. Contains up-to-date discussions on diagnosis, placental biology, abnormal and normal physiology and pathology. Offers a new chapter on ultrasound, which provides critical antenatal information not available in pathology texts. Presents a new chapter on the latest in molecular biology, essential to the understanding of new concepts and diagnoses. Features 245 high-quality images cross-referenced to more encyclopedic discussions later in the book that further assist you in identifying often overlooked areas.

Vascular Biology of the Placenta Apr 30 2023 The placenta is an organ that connects the developing fetus to the uterine wall, thereby allowing nutrient uptake, waste elimination, and gas exchange via the mother's blood supply. Proper vascular development in the placenta is fundamental to ensuring a healthy fetus and successful pregnancy. This book provides an up-to-date summary and synthesis of knowledge regarding placental vascular biology and discusses the relevance of this vascular bed to the functions of the human placenta.

**Placenta and Trophoblast** Jul 09 2021 A collection of cutting-edge laboratory techniques for the study of trophoblast and placental biology. The techniques presented range from experimental animal models, to animal and human placental organ and cell culture systems, to morphological, biochemical, and molecular strategies for assessing trophoblast/placental growth, differentiation and function. Volume 1 provides readily reproducible protocols for studying embryo-uterine implantation, trophoblast cell development, and the organization and molecular characterization of the placenta. Highlights include strategies for the isolation and culture of trophoblast cells from primates, ruminants, and rodents, and precise guidance to the molecular and cellular analysis of the placental phenotype. A companion second volume concentrates on methods for investigating placental function.

The Human Placenta Jan 15 2022 The placenta is fascinating and complex. Basically foreign to the maternal body, it can be thought of as an organ transplanted onto the mother's host tissue. As such it embodies all the principles of tissue acceptance and rejection. Many of the risks of pregnancy and labor have now been eliminated and the placenta is likely to be at the root of many of the dangers to the unborn child that remain. A breakdown of the relationship between the placenta and the maternal tissue may turn out to be the cause of the majority of early lost pregnancies.

Pathology of the Human Placenta, 5th Edition Jul 21 2022 Pathology of the Human Placenta remains the authoritative text in the field and is respected and used by pathologists and obstetrician-gynecologists alike. This fifth edition reflects new advances in the field and includes 800 illustrations, 173 of them in color. The detailed index has been improved and the tables updated. Defined terms are highlighted in bold for easy identification, and further findings are discussed in small type throughout each chapter. Advances in genetics and molecular biology continue to make the study of the placenta one of vast diagnostic and legal importance.

**Vascular Biology of the Placenta** May 07 2021 The placenta is an organ that connects the developing fetus to the uterine wall, thereby allowing nutrient uptake, waste elimination, and gas exchange via the mother's blood supply. Proper vascular development in the placenta is fundamental to ensuring a healthy fetus and successful pregnancy. This book provides an up-to-date summary and synthesis of knowledge regarding placental vascular biology and discusses the relevance of this vascular bed to the functions of the human placenta.

The Placenta Apr 06 2021 The placenta plays an essential role in childbirth. It becomes disposable after the baby is born which makes it the only organ in the human body that serves a vital function and then becomes obsolete. This book presents the reader with a comprehensive, well written and informative collection of chapters written by experts from around the world. It will be a valuable asset for anyone interested in reproduction and pregnancy and wanting to access excellent reviews as well as the most current discussion of the biology and medicine of the placenta.

Placental and Gestational Pathology with Online Resource Feb 16 2022 A guide to identifying disease processes in the placenta affecting pregnancy outcome, with current diagnostic criteria and clinical consequences.

**Pathology of the Placenta** Feb 28 2023 This book provides a comprehensive resource on the pathology of the human singleton placenta. Agreed nomenclature, nosology, definitions and, where possible, thresholds for meaningful clinical corrections for lesions ideal for practical application in clinical practice are presented. Evidence is also featured on relevant potential clinical correlations to aid the reader in deciding upon the most appropriate management strategy. Areas of current uncertainty are also covered for potential future research. Pathology of the Placenta systematically describes placental pathology, and represents a valuable resource for practising and trainee pathologists, obstetricians, neonatologists and epidemiologists.

**Benirschke's Pathology of the Human Placenta** Jun 20 2022 This book had its beginning in 1967 when Shirley G. Driscoll and Kurt Benirschke wrote in English the volume on placental pathology for the Henke-Lubarsch, the noted German Handbook of Pathology. There seemed to be a need for wider distribution of the text and it was reprinted by Springer Verlag, New York, essentially the only book available devoted just to the human placenta. Dr. Benirschke authored 5 subsequent editions in collaboration with Peter Kaufmann, Rebecca Baergen and Graham Burton in 1990 (2nd edition), 1995 (3rd edition), 2000 (4th edition), 2006 (5th edition) and 2012 (6th edition). In the early editions, the most important material was in a larger font than the extensive review of exceptions and the discussion in the literature. Since 1967, many other shorter placenta books have been published in English, French and German. None of these have included the breadth of discussion or the voluminous references which includes details of many historic articles, not readily available. Interest in the placenta has wildly expanded over the intervening 50+ years with the vast majority of Pathologists, Obstetricians and Pediatricians recognizing its value. In addition, there are now quite a few new journals, societies and meetings devoted to the placenta in both clinical and research areas. The interest extends into areas of study well beyond the realm of anatomic pathology. The 7th edition will, of necessity, differ from the prior editions which Dr. Benirschke wrote largely himself at first, and later with the help of the above noted co-authors. It will now be an international multi-authored book with nearly 40 contributors revising one or more chapters. The explosion of new information as necessitating some reordering of chapters and adding completely new chapters including Chapters 31 and 32, "Innovations in Placental Pathology" and "Imaging in Placental Pathology". Dr. Burton's section has been extensively edited, as well. The editors gave the new authors considerable latitude in how to write the new and/or edited chapters. Many of the revised chapters retain much of Dr. Benirschke's anecdotal information as well as the voluminous references. Others are more modern in their approach. All contain substantial new references and current information. It is our hope that Benirschke's Pathology of the Human Placenta will remain as a mainstay reference in placental pathology. It aims to help readers gain a broad understanding of how placental architecture is shaped during normal development, with a view to appreciating how this may be perturbed in complications of pregnancy.

*The Placenta* Mar 29 2023 The Placenta: From Development to Disease examines research into placental function and its clinical implications to provide a springboard for improving clinical practice and enhancing medical research. Influential information is extracted from the compelling narrative by the use of 'take home' features including: Clinical Pearls – point to important issues in clinical practice Research Spotlights - highlight key insights into placental understanding Teaching Points – explain basic concepts for novice readers The Placenta: From Development to Disease is ideal for both experienced clinicians and researchers and those new to the field. Anyone who needs to understand the central importance of the placenta in the well being of their maternal and fetal patients should read this book.

**Manual of Pathology of the Human Placenta** Sep 23 2022 Manual of Pathology of the Human Placenta, Second Edition is a concise, practical manual of placental pathology. While references are made to the more encyclopedic Pathology of the Human Placenta, this Manual is designed as a user-friendly, easy-to-read bench manual that can be used in the grossing room as well as at the microscope. Features of the text include:- A section on the approach to the placental specimen, providing suggestions on what to do, as well as when and how to do it.- Discussion of detailed development and normal histology of all parts of the placenta for those wanting to learn about specific areas of the placenta.- Discussion of placental lesions, disease processes related to the placenta, neoplasms, and trophoblastic lesions. An overview of the legal implications of placental examination and future direction. "Suggestions for Examination and Report" includes key points in gross examination, sectioning, and diagnosis. Suggestions for comments in the surgical pathology report guide the reader in problematic situations or when the diagnosis or diagnostic implications are unclear. An abundance of tables summarize pertinent information and provide easy access to the differential diagnoses of various lesions. Manual of Pathology of the Human Placenta is a must-have reference for every pathologist, resident and pathology assistant.

**Placenta and Trophoblast** Mar 25 2020 The aim of the two-volume set of Placenta and Trophoblast: Methods and Protocols is to offer contemporary approaches for studying the biology of the placenta. The chapters contained herein also address critical features of the female organ within which the embryo is housed, the uterus, and some aspects of the embryo–fetus itself, particularly those of common experimental animal models. In keeping with the organization used effectively in other volumes in this series, each chapter has a brief introduction followed by a list of required items, protocols, and notes designed to help the reader perform the experiments without difficulty. In both volumes, sources of supplies are given and illustrations highlight particular techniques as well as expected outcomes. A key aspect of these volumes is that the contributors are at the forefronts of their disciplines, thus ensuring the accuracy and usefulness of the chapters. Placenta research has progressed rapidly over the past several decades by taking advantage of the technical advances made in other fields. For example, the reader will note that many techniques, such as reverse transcriptase polymerase chain reaction, northern and western blotting, microarray analyses and in situ hybridization experiments, are routinely used for dissecting a wide range of experimental questions. Protein analysis and functional experiments on tissues and cells that comprise the maternal–fetal interface benefit from studies in endocrinology, immunology, and

developmental biology. These volumes also present new ideas on investigating gene imprinting and gene transfer via viral vectors.

**The Evolution of the Human Placenta** Jan 27 2023 As the active interface of the most biologically intimate connection between two living organisms, a mother and her fetus, the placenta is crucial to human evolution and survival. Michael L. Power and Jay Schulkin explore the more than 100 million years of evolution that led to the human placenta and, in so doing, they help unravel the mysteries of human life's first moments. Starting with some of the earliest events that have influenced the path of placental evolution in mammals and progressing to the specifics of the human placenta, this book examines modern gestation within an evolutionary framework. Human beings are a successful species and our numbers have increased dramatically since our earliest days on Earth. However, human fetal development is fraught with poor outcomes for both the mother and fetus that appear to be, if not unique, far more common in humans than in other mammals. High rates of early pregnancy loss, nausea and vomiting during pregnancy, preeclampsia and related maternal hypertension, and preterm birth are rare or absent in other mammals yet not unusual in humans. Power and Schulkin explain why this apparent contradiction exists and address such topics as how the placenta regulates and coordinates the metabolism, growth, and development of both mother and fetus, the placenta's role in protecting a fetus from the mother's immune system, and placental diseases. In the process, they reveal the vital importance of this organ—which is composed mostly of fetal cells—for us as individuals and as a species. -- Errol R. Norwitz, Tufts University School of Medicine and Tufts Medical Center

**Placenta - The Forgotten Chakra** Sep 30 2020 The placenta, the root of your origin, is a miraculous organ that shares and protects your life. It is the conductor that unites you with your mother and serves as the control panel of the womb-ship that sustains you until you are born. It was conceived at the moment of your genesis. Your placenta is genetically identical to you. Though you share some of your parents' genetic identity, unless you have a monozygotic (identical) twin, no one, except your placenta, has ever been so perfectly, exactly you. Sexual reproduction, the act of creating new life, only works because of the placenta. As mammals, we reproduce sexually, so sex is the reddest, hottest tile in the mosaic of our earthly lives, and the placenta is the mandala in the center of this miracle. Historically, our creation stories tell of the Earth Mother birthing the world: her amniotic fluid became the oceans, the placenta became the Tree of Life. This demonstrates how essential the placenta is to our survival and how embedded it is in our psyche. According to Chaos Theory, dynamic systems are sensitive to start up conditions. Human beings are extremely dynamic systems, and our survival hinges on the strength of our individual immune systems. The placenta is the commander-in-chief of the baby's immune system during embryonic development (i.e. condition of start-up). Thus, we must protect our offspring's placentas by being gentle during the transition of birth, to give our children the best possible start and protect the very foundation of their immune systems.

**The Guide to Investigation of Mouse Pregnancy** Jul 29 2020 The Guide to Investigation of Mouse Pregnancy is the first publication to cover the mouse placenta or the angiogenic tree the mother develops to support the placenta. This much-needed resource covers monitoring of the cardiovascular system, gestational programming of chronic adult disease, epigenetic regulation, gene imprinting, and stem cells. Offering detailed and integrated information on how drugs, biologics, stress, and manipulations impact pregnancy in the mouse model, this reference highlights techniques used to analyze mouse pregnancy. Joining the ranks of much referenced mouse resources, The Guide to Investigation of Mouse Pregnancy is the only manual providing needed content on pregnancy in animal models for translational medicine and research. Provides instruction on how to collect pre-clinical data on pregnancy in mouse models for eventual use in human applications Describes the angiogenic tree the mother's uterus develops to support pregnancy and the monitoring of pregnancy-induced cardiovascular changes Educates readers on placental cell lineages, decidual development including immune cells, epigenetic regulation, gene imprinting, stem cells, birth and lactation Discusses how stress, environmental toxicants and other manipulations impact upon placental function and pregnancy success

**Pathology of the Placenta** Nov 25 2022 Now in its third edition, this "benchside" reference provides you with a structured diagnostic approach to the features of the placenta most commonly encountered in the investigation of adverse fetal outcomes. Inside, you'll find detailed discussions on cytogenetics and molecular biology as well as the latest developments in coagulopathy, infections, chorioamnionitis, preeclampsia, trophoblastic disease, and twin pregnancies among others. Plus, a new format facilitates information retrieval and new color clinical and pathologic images help you recognize and diagnose lesions better than ever. Access the most authoritative and effective diagnostic help with step-by-step guidance on placental examination techniques. Get the clinical information you need without superfluous details. Create better reports or prepare for exams with comprehensive coverage of all benign and malignant disorders of placental abnormalities. Increase your diagnostic acumen with new and expanded topics such as apoptosis in the normal and pathological placenta, pathogenesis of miscarriage, placental infections (especially malaria and HIV), chorioamnionitis with special reference to its role in cerebral palsy, preeclampsia, gestational trophoblastic disease, medico-legal aspects of the placenta, and much more. Perform a complete diagnostic workup with detailed coverage of molecular biology, immunohistochemistry, and cytogenetics. Diagnose confidently with the addition of full-color images throughout. Find the the information you need quickly thanks to a new user-friendly format, including bullet points, summary tables, and take-home messages.

**Lectures on the Comparative Anatomy of the Placenta** Nov 13 2021

**HIV, Perinatal Infections, and Therapy** Aug 30 2020 Papers on the role of the placenta in HIV and other perinatal infections.

**Fetal Nutrition, Metabolism, and Immunology** Mar 17 2022 Each year since 1961, the Rochester Trophoblast Conference has grown in the diversity of its approaches to trophoblast research. At the Ninth Conference, Professors Klopper, Villee and Winick molded the conference with their state of the art addresses on Endocrinology, Metabolism and Nutrition of the Trophoblast. The Conference was favored with a multitude of creative studies and with warm, sunny, autumn weather to discuss these results. In October of 1982, one hundred and five investigators from 12 countries and 21 states discussed 42 different presentations at the Holiday Inn in Rochester, New York. The Ninth Conference introduced workshops on Metabolism, Nutrition, Endocrinology and Trophoblastic Neoplasia. The chairmen of these workshops were: Metabolism -Villee and Miller; Nutrition - Winick and Maulik; Endocrinology - Klopper and Muechler; and Trophoblastic Neoplasia -Szulman and Helmkamp. These two-hour, intimate discussion groups were well-received by all who attended. As with the Eighth Conference, the University of Rochester will no longer

produce a transcript of the Conference. Beginning with the Ninth Conference, Plenum Press in association with the University, will publish a peer-reviewed series entitled Trophoblast Research. An international editorial advisory board has been named to assure the direction of the series. The editorial board and the organizing committee will develop the future meetings of the Rochester Trophoblast Conference. Trophoblast Research will be published as single bound volumes with original contributions and editorial reports of presentations from the Conference.

**Human Placenta** Dec 22 2019 The placenta is a fetomaternal organ provided by nature to aid development of the growing embryo by facilitating gas and nutrient exchange between the mother and foetus and by helping to maintain fetomaternal tolerance. Aside from playing an age-old and essential role in foetal development, placental tissues have also attracted the interest of clinical scientists due to their potential utility as a therapeutic agent. This book provides an overview of the clinical applications which have been described for placental tissue or are currently applied, as well as a summary of the most recent results obtained in pre-clinical studies, which present promising perspectives for the future clinical application of these cells. The trophoblast, a cell type of the placenta, is also outlined in this book, as well as its function in the placenta during pregnancy and its role in developmental processes and gynecological diseases. In addition, pregnancy-specific glycoproteins (PSGs) are secreted proteins which are produced by the rodent and primate placenta, and play a critical role in pregnancy success. This book summarises and analyses the data on structure and function of PSGs known to date. Relatively recent data of PSG-derived biologically active peptides are also described. Other chapters examine placental functions and their role in predicting development and disease in infancy and childhood, and the role of insulin like growth factors (IFGs) in normal and abnormal placental and foetal development during pregnancy.

**The Placenta** Oct 24 2022 This book is a comprehensive work that spans the gap between basic knowledge and clinical significance of the placenta. Starting from normal development, it deals with the histopathology of the placenta, leads the reader on to functional disorders and insufficiencies and explains their effects on mother and child. Based on this, the authors convey in a practical and user-friendly manner everything worth knowing about diagnostics and therapy and provide valuable information for the optimal care of the pregnant patient.

*Pathology of the Human Placenta* May 19 2022 Pathology of the Human Placenta has become the gold standard in the field for pathologists and obstetrician-gynecologists. Completely up-to-date, this fifth edition continues to be the essential reference for professionals in the field and includes many revised features such as a more detailed index; 700 total illustrations (350 color illustrations); and updated tables.

Placenta Wit: Mothers Stories, Rituals and Research Jan 03 2021 Placenta Wit is an interdisciplinary anthology of stories, rituals, and research that explores mothers' contemporary and traditional uses of the human afterbirth. Authors inspire, provoke and highlight diverse understandings of the placenta and its role in mothers' creative life-giving. Through medicalization of childbirth, many North American mothers do not have access to their babies' placentas, nor would many think to. Placentas are often considered to be medical property, and/ or viewed as the refuse of birth. Yet there is now greater understanding of motherand baby-centred birth care, in which careful treatment of the placenta and cord can play an integral role. In reclaiming birth at home and in clinical settings, mothers are choosing to keep their placentas. There is a revival, and survival, of family and community rituals with the placenta and umbilical cord, including burying, art making, and consuming for therapeutic use. Claiming and honouring the placenta may play a vital role in understanding the sacredness of birth and the gift of life that mothers bring. Placenta Wit gathers narrative accounts, scholarly essays, creative pieces and artwork from this emergence of placental interests and uses. This collection includes understandings from birth cultures and communities such as home-birth, hospital-birth, midwifery, doula, Indigenous, and feminist perspectives. Once lost, now found, Placenta Wit authors capably handle and care for this wise organ at the roots of motherhood, and life itself.

The Human Placenta in Health and Disease , An Issue of Obstetrics and Gynecology Clinics May 27 2020 Together with Consulting Editor Dr. William Rayburn, Drs. D. Michael Nelson and Leslie Myatt have put together a unique issue that discusses The Human Placenta in Health and Disease. Expert authors have contributed clinical review articles on the following topics: Why obstetricians know the future health of the babies they deliver; How obstetricians can predict the future health of mothers after a complicated pregnancy; What obstetricians need to know about placental pathology; Immunology of the placenta; Diabetes mellitus, obesity, and the placenta; Intrauterine growth restriction and placental dysfunction; The placenta as the root cause for preeclampsia; Placental anatomy and function in twin gestations; Placental implantation disorders: accreta, previa, and abruptio placentae; Key infections in the placenta; Chorioamnion function in normal and abnormal pregnancy; The future for imaging modalities of the human placenta; Artificial reproductive technologies and the decidual and placental development interface; and When the fetus goes still and the birth is tragic: The role of the placenta in stillbirths. Readers will come away with the clinical information they need to improve outcomes in the women, mothers, and infants.

**The Pathology of the Human Placenta** Dec 14 2021 This presentation of the diseases of the placenta differs in many ways from the first such treatment in these volumes by the eminent Robert Meyer. It is a deliberate attempt to bring together the practical information which has been gathered about the pathology of this complex organ and to make it available to the practicing pathologist as well as clinician. Despite the ready availability of the placenta for study, the pathologist is often ill-prepared to interpret lesions which he may find. Moreover, it has been difficult for him to find reference material, published commonly in journals and books with which he is not familiar. Further more, the interpretation of lesions affecting the placenta seemed less challenging since the organ had served its function, was to be discarded and presumably little of significance could be expected from such a retrospective study. Recently, with new emphasis on maternal and fetal health and disease, it has become apparent that knowledge of pathologic changes in the placenta often provides a unique insight into antenatal events. Thus, there has been an abundance of publications in this field in recent years, several in book form. These and the most important older investigations on the morbid anatomy of the human placenta are here reviewed. This book has been written with a special point of view, however, which reflects our own bias.

**Placenta** Aug 22 2022 Long regarded as biological waste, the placenta is gaining momentum as a viable product for clinical use. Due to their unique properties, placental cells and derivatives show great promise in curing various diseases. Utilizing contributions from world-renowned experts, Placenta: The Tree of Life considers the therapeutic potential of these cells. It examines new stem

cell-based strategies and highlights recent studies that advance the range of treatment for a number of illnesses. Emphasizing the potential research and therapeutic use of stem cells, the book discusses the development, structure, and functions of the human placenta. It introduces overall aspects of the immune system, explains some of the immune mechanisms during pregnancy, and shows the role of the placenta in these mechanisms. Current scientific research is presented that focuses on the mechanisms of action underlying the therapeutic benefit of cells isolated from different placental regions. An exhaustive examination, this pivotal work: Considers how perinatal cells may represent an important source for cell therapy approaches in the near future, in both human and veterinary medicine Describes the clinical potential of placenta-derived cells in regenerative medicine—specifically in neurological disorders, metabolic liver diseases, inflammatory diseases, and autoimmune diseases Explains how cells isolated from different placental tissues share basic properties Placenta: The Tree of Life summarizes the advantages of perinatal tissue as a source of cells with therapeutic potential and is designed for use in the study of genetics, stem cell science, placental function, reproductive biology, regenerative medicine, and related fields.

Placenta Sep 11 2021 The placenta, amniotic fluid, umbilical cord, and cord blood can often be classified as pregnancy-specific biological substances with enormous applications in regenerative medicine. The Placenta includes eight chapters that provide readers with access to a range of information from basic mechanisms and assays to cutting-edge research investigating concerns for normal placentation. The book presents a comprehensive, translational look at all aspects of abnormal placentation and its effects on maternofetal axis. It follows the relationship between placenta-derived mesenchymal stromal cells and modulation of immunity, gene expression, and inflammation. It also covers additional information concerning the management of placental complications, placental therapy, and biological roles of antiinflammation and regeneration. The Placenta will be of interest to scientists, embryologists, physicians, and lay readers wishing to review recent developments in the field of the placenta.

**Placenta** Oct 12 2021 Long regarded as biological waste, the placenta is gaining momentum as a viable product for clinical use. Due to their unique properties, placental cells and derivatives show great promise in curing various diseases. Utilizing contributions from world-renowned experts, Placenta: The Tree of Life considers the therapeutic potential of these cells. I

Morphofunctional Characteristics of the Placenta in Norm and at Cytomegalovirus Infection Apr 25 2020 This monograph is devoted to the issues of the morphofunctional characteristics of the placenta. We meticulously studied the stages of the placenta formation, the placental circulation, the participation of the placenta in the steroidogenesis and cholesterol metabolism, the lipid peroxidation, the functioning of the fetoplacental system, and the morphofunctional state of the peripheral blood erythrocytes in normal pregnancy and in pregnancy complicated by CMVI exacerbation.

Like a Mother Jan 23 2020 A candid, feminist, and personal deep dive into the science and culture of pregnancy and motherhood Like most first-time mothers, Angela Garbes was filled with questions when she became pregnant. What exactly is a placenta and how does it function? How does a body go into labor? Why is breast best? Is wine totally off-limits? But as she soon discovered, it's not easy to find satisfying answers. Your obstetrician will cautiously quote statistics; online sources will scare you with conflicting and often inaccurate data; and even the most trusted books will offer information with a heavy dose of judgment. To educate herself, the food and culture writer embarked on an intensive journey of exploration, diving into the scientific mysteries and cultural attitudes that surround motherhood to find answers to questions that had only previously been given in the form of advice about what women ought to do—rather than allowing them the freedom to choose the right path for themselves. In Like a Mother, Garbes offers a rigorously researched and compelling look at the physiology, biology, and psychology of pregnancy and motherhood, informed by in-depth reportage and personal experience. With the curiosity of a journalist, the perspective of a feminist, and the intimacy and urgency of a mother, she explores the emerging science behind the pressing questions women have about everything from miscarriage to complicated labors to postpartum changes. The result is a visceral, full-frontal look at what's really happening during those nine life-altering months, and why women deserve access to better care, support, and information. Infused with humor and born out of awe, appreciation, and understanding of the female body and its strength, Like a Mother debunks common myths and dated assumptions, offering guidance and camaraderie to women navigating one of the biggest and most profound changes in their lives.

**The Placenta and Human Developmental Programming** Nov 01 2020 Developmental programming is a rapidly advancing discipline of great importance to basic scientists and health professionals alike. This text integrates, for the first time, contributions from world experts to explore the role of the placenta in developmental programming. The book considers the materno-fetal supply line, and how perturbations of placental development impact on its functional capacity. Chapters examine ways in which environmental, immunological and vascular insults regulate expression of conventional and imprinted genes, along with their impact on placental shape and size, transport, metabolism and endocrine function. Research in animal models is integrated with human clinical and epidemiological data, and questions for future research are identified. Transcripts of discussions between the authors allow readers to engage with controversial issues. Essential reading for researchers in placental biology and developmental programming, as well as specialists and trainees in the wider field of reproductive medicine.

**Observations on the Placenta of the Rabbit** Dec 02 2020

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