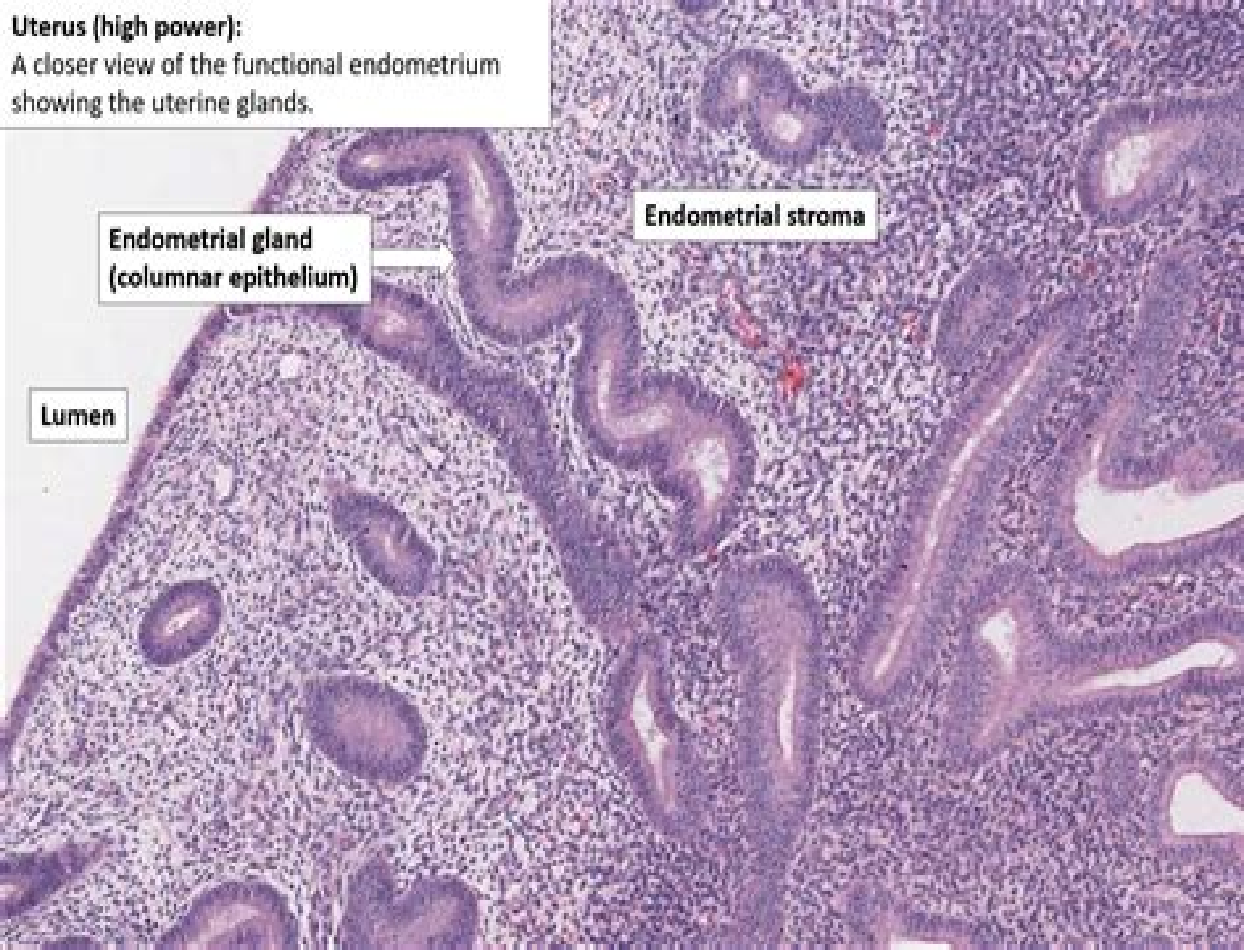


**Uterus (high power):**  
A closer view of the functional endometrium showing the uterine glands.



**Endometrial gland  
(columnar epithelium)**

**Endometrial stroma**

**Lumen**

# The Human Endometrium

**Carlo Bulletti, Erlio Gorpide, Carlo  
Flamigni**



## **The Human Endometrium:**

The Human Endometrium Carlo Bulletti, Erlio Gorpide, Carlo Flamigni, 1994 The structural biochemical and clinical events related to menstruation implantation parturition endometriosis abnormal uterine bleeding and endometrial cancer are discussed in this comprehensive volume on the biological functions of the endometrium New topics such as the biochemical and molecular mechanisms regulating maternal embryonic interaction are explored and gynecologic endoscopy and therapeutic tools are discussed The proceedings of the first conference is also available from the Academy as volume 622 of The Annals of The New York Academy of Science      The Functional Morphology of the Human Endometrium and Decidua

Udo M. Spornitz, 1992 1 1 Historical Perspective In the nineteenth century knowledge of the events leading to ovulation fertilization and implantation was very limited so much so that Seiler 1832 in his book The Uterus and the Human Egg wrote in the left ovary the first signs of fertilization namely a Graaf vesicle could be seen The right ovary shows proof of a second successful copulation a fresh scar from the ovulated egg and the beginning of a corpus luteum In fact all nineteenth century authors strictly divide the female cycle into two phases the menstrual period and the intermenstruum ct Hitschmann and Adler 1908 The generally accepted histology of the endometrium in those days was that of the late proliferative phase Deviations from this were considered to be pathological Von Ebner 1902 As Gebhard 1899 expressly put it As a rule it can be said that in the mature woman the endometrial glands run straight an irregular course of the glands is to be regarded as pathological The same author describes the changes occurring during the secretory phase of the cycle as endometritis glandularis which he believed to arise from a local nutritional disturbance The uterine stroma was believed to be lymphoid Toldt 1877 and the uterine glands were compared to the crypts of Lieberkiihn Von Ebner 1902      **The Endometrium**

Stanley R. Glasser, John D. Aplin, Linda C. Giudice, Siamak Tabibzadeh, 2002-05-16 The Endometrium is devoted to a comprehensive multi disciplinary account of the uterine endometrium This book is the first to define the regulatory biological interrelationships between epithelial and stromal cell phenotypes endothelial cells extracellular matrix and immunobiological elements It highlights their relevance to clinical conditions      **The Human Endometrium** Carlo Bulletti, Erlio

Gorpide, Carlo Flamigni, 1994 The structural biochemical and clinical events related to menstruation implantation parturition endometriosis abnormal uterine bleeding and endometrial cancer are discussed in this comprehensive volume on the biological functions of the endometrium New topics such as the biochemical and molecular mechanisms regulating maternal embryonic interaction are explored and gynecologic endoscopy and therapeutic tools are discussed The proceedings of the first conference is also available from the Academy as volume 622 of The Annals of The New York Academy of Science

The Endometrium John D. Aplin, Asgerally T Fazleabas, Stanley R Glasser, Linda C Giudice, 2008-04-07 The first edition of The Endometrium was a landmark publishing event in reproductive biology and medicine Many important developments have occurred in the field and this new edition has been substantially updated and expanded to include new topics with an

improved format With the addition of several new authors and topics the Second Edition of **The Normal Human Endometrium** Heinrich Schmidt-Matthiesen,1968 **Composition of the Stroma in the Human Endometrium and Endometriosis** , *The Human Endometrium* Ian Aitken Ross More,1979 *Multimice Exploration of the Human Endometrium* Alexandra Haigh,2022 *The Endometrium* J. De Brux,2012-12-06 Although the physiology of the menstrual cycle appears clear and easily explained by a balance in the concentration of various sex steroid hormones numerous details of its mechanism are still poorly understood and little is known about the relationship among clinical events plasma hormone concentrations molecular impacts on target tissues and their regulation In the following chapters the authors have attempted to establish a correlation between endometrial histology and well understood physiologic events of the menstrual cycle They have provided up to date information on the effects of various hormones and combinations of hormones on the endometrium The interdependence of endometrial morphology molecular biology endocrinology and physiology provides grounds for a better understanding of the complex mechanism of the menstrual cycle and sheds some light on its pathophysiology Such an approach adds another dimension to interpretation of many menstrual abnormalities and numerous aspects of infertility in women with normal physiognomies and apparently regular menstrual cycles The pathologist must be aware of these new concepts since a knowledge of functional changes reflected in hormone serum levels and sex steroid receptor concentrations allows a more detailed analysis and a better interpretation of the structural features of the endometrium This information placed in the proper clinical context can help the gynecologist provide optimal therapy The reader will find a valuable reference for a synthesis of clinical morphological and biochemical data related to the menstrual cycle and its aberrations

**The Human Female Reproductive Tract** H. Ludwig,H. Metzger,2012-12-06 Life is always intimately bound up with structure and with the continuous transformation which structures undergo Modern science and technology have now made it possible to display these structures before our eyes right up to the frontiers of molecular dimensions When several years ago Dr HANS LUDWIG while working at the First Department of Obstetrics and Gynecology of the University at Munich demonstrated to us some micrographs showing the human oviduct's surface pattern my immediate reaction was This is the environment that encompasses the very onset of an individual human life In fact scanning electron microscopy superimposed upon classical micro morphology has enabled us to get insight into the landscape of living structures their intricate organization and their delicate beauty as well At the same time this technique opens up an entirely new perspective in our three dimensional view and comprehension of biological events This becomes especially evident in the realm of reproductive processes within the human female reproductive tract In this volume the authors give for the first time systematically a description of the surface patterns of the inside of the human vagina ecto and endocervix and the human uterus and oviduct they depict ovulatory alterations of the ovarian surface and surface changes under various endocrine conditions as well as in relation to the menstrual cycle pregnancy fetal growth and the menopausal cessation of ovarian functional activity of the

placental intervillum the In addition they describe surface structures basal plate and the amnion Atlas of Human Reproduction E.S. Hafez,P. Kenemans,2012-12-06 The suggestion of Max Knoll that an electron fascinated by the numerous SEM photographs the wealth of information and the enthusiasm of the microscope could be developed using a fine scanning researchers covering a variety of disciplines All aspects beam of electrons on a specimen surface and recording the emitted current as a function of the position of the of the female and male genital tract have been covered beam was launched in 1935 Since then several culminating in the prizewinning award showing the in investigators and clinicians have used this concept to vitro fertilized human egg develop techniques now known as scanning electron In clinical diagnostics SEM also proved to be a microscopy SEM and scanning transmission electron valuable complementary technique shedding new light microscopy STEM The choice to study the female on oncology the pathogenesis of tubal disease and the reproductive organs was a logical one because cells and maturation process of the placenta Future research has tissue samples can be sampled relatively easily still to be accomplished e g quantification of SEM furthermore these cells and organs are influenced photographs for meaningful and sound biological continuously by the cyclic production of hormones scientific and statistical evaluation in diagnostic This atlas demonstrates the state of the art in 1983 gynecology obstetrics andrology and oncology

**Endometriosis in Clinical Practice** David Olive,2004-11-29 Endometriosis is on a worldwide increase and carries with it serious implications for women s reproductive health Endometriosis in Clinical Practice brings together international experts to demonstrate what is known about the condition and the corresponding clinical implications for the patient suffering from it Unlike many other books on this su *Epigenetics in Human Disease* Trygve O. Tollefsbol,2023-10-09 *Epigenetics in Human Disease* Third Edition examines the diseases and conditions on which we have advanced knowledge of epigenetic mechanisms such as cancer autoimmune disorders aging metabolic disorders neurobiological disorders and cardiovascular disease From molecular mechanisms and epigenetic technology to clinical translation of recent research the nature and applications of the science is presented for those with interests ranging from the fundamental basis of epigenetics to therapeutic interventions for epigenetic based disorders with an emphasis throughout on understanding and application of key concepts in new research and clinical practice Fully revised and up to date this Third Edition discusses topics of current interest in epigenetic disease research including stem cell epigenetic therapy bioinformatic analysis of NGS data epigenetic mechanisms of imprinting disorders microRNA in cancer epigenetic approaches to control obesity epigenetics and airway disease and epigenetics in cardiovascular disease Further sections explore online epigenetic tools and datasets early life programming of epigenetics in age related diseases the epigenetics of addiction and suicide and epigenetic approaches to regulating and preventing diabetes cardiac disease allergic disorders Alzheimer s disease respiratory diseases and many other human maladies In addition each chapter now includes chapter summaries definitions and vibrant imagery and figures to reinforce understanding as well as step by step methods and disease research case studies Includes contributions from

leading international investigators involved in translational epigenetic research and therapeutic applications Integrates methods and applications with fundamental chapters on epigenetics in human disease along with an evaluation of recent clinical breakthroughs Presents side by side coverage of the basis of epigenetic diseases and treatment pathways Each chapter updated to include summaries definitions and vibrant imagery and figures to reinforce understanding Features step by step methods and disease research case studies to put book concepts into practice Benirschke's Pathology of the Human Placenta Rebecca N. Baergen, Graham J. Burton, Cynthia G. Kaplan, 2021-12-07 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 Cumulated Index Medicus ,1994 Medicated Intrauterine Devices E.S. Hafez, W.A. van Os, 2012-12-06 Extensive basic research and clinical trials have in some aspect of reproductive physiology been conducted on inert and medicated intrauterine devices or family planning There is in this volume devices In the last decade substantial progress has an attempt to provide a

total coverage of current been made in understanding the modes of action progress in medicated intrauterine devices The and the physiological mechanisms of IUDs pro volume is intended for a broad readership includ gress resulting from modern techniques and in ing physicians medical workers medical personnel strumentation in microanatomy immunology pa and administrators in family planning It is hoped thology endocrinology biochemistry and biophy that this volume will serve as a stimulus to basic sics Such studies however are scattered in such a scientists and clinicians concerned with intrauterine wide spectrum of journals that the clinician and devices to intensify their research toward better family planner can hardly keep up to date with the contraceptive techniques advances An attempt is made in this volume to coordinate physiological and clinical parameters Little is September 1980 known about the possible role of diet diseases and environmental factors E S E

**Cytokines in Human Reproduction** Joseph A. Hill,1999-12-24 The role of cytokines in the pathogenesis of disease is an area of research offering exciting challenges for scientists developing new disease interventions Cytokines are proteins secreted by immune and inflammatory cells that circulate in the blood or extracellular space and bind to specific receptors activating a cascade of intracellular signals which ultimately affect the growth differentiation and viability of cells The effect of too little or too much of an individual cytokine or cytokines as a potential source of disease has led to novel treatment strategies designed to control the processes affecting cytokine levels Cytokines in Human Reproduction is the first reference to examine the role and effect of cytokines in reproduction specifically how they cause and prevent disease Edited by one of the foremost authorities in reproductive immunology this important work includes the latest in cytokine research from leading specialists In its thirteen chapters the book includes discussion of cytokines in both testicular and ovarian function cytokines in early pregnancy cytokines in disease development uterine leiomyomas and tumors as well as The role of psycho neuro endocrine immunology in reproduction Cytokine networks in the human placenta Cytokines in the human fallopian tube Cytokines in the peritoneal environment Cytokines in endometriosis Oncogenes and growth factors in gynecologic oncology Authoritative and up to date Cytokines in Human Reproduction offers the first comprehensive look at cytokines in reproductive science and is a valuable resource in the library of the maternal fetal specialist reproductive immunologist obstetrician gynecologist as well as researcher or student

**Stem Cells in Human Reproduction** Carlos Simon, Antonio Pellicer,2006-12-05 This book gives an overview of the revolutionary advances in stem cell science that may potentially impact human reproductive medicine The contents cover the production and regeneration of female and male germ cells trophoblasts and endometrium from human embryonic and adult stem cells New developments in hESC derivation that will impact clinic

*Biology of the Uterus* W. Jollie,R.M. Wynn,2013-06-29 Almost a quarter of a century has elapsed since Cellular Biology of the Uterus the predecessor of the present volume was planned During that period especially in the decade since the publication of the last edition of Biology of the Uterus new information in the field has been so voluminous as to require major revisions of most of the chapters the addition of several new chapters and the collaboration of a second editor

to facilitate the selection of appropriate experts as authors As in prior editions a balance has been struck between classical biology and modern biochemistry and biophysics The inclusion of basic histological and embryological information provides a necessary though often lacking background for the protein chemist and molecular biologist and a bridge between the cell biologist and clinician Thus major practical problems in human reproduction such as the genesis of endometrial carcinoma and the cause of the initiation of labor may be approached on a firm scientific footing The current edition deals primarily with the biology of the uterus itself comparative and human rather than placentation or pregnancy and thus is a synthesis of data derived from many techniques both conventional and modern As it is clearly beyond the competence of anyone scientist to prepare such a text on the basis of personal knowledge and experience the aid of 22 distinguished scientists was enlisted



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