

Blastosis Invasion

Jyrki Heino

Trophoblast Invasion and Endometrial Receptivity H.W. Denker,J.D. Aplin,2012-12-06 Interest in mechanisms of embryo implantation is increasing, particularly with the realization that failure of implantation after in vitro fertilization and embryo transfer places significant limits on the success of treatment. In addition, there is a need to provide hypotheses, and ultimately mechanisms, for the high rates of embryonic loss in women in the population at large. Traditionally, implantation research has concentrated on genetics and endocrinology without providing many therapeutic benefits. A new era is now beginning with the application of modern cellular and molecular approaches to the investigation of the relationship between trophoblast and endometrium. At the same time, older data can be reevaluated in the light of current research into cell-cell and cell-matrix interactions. The feeling that new avenues of research are open was apparent when an international group of scientists came together at a workshop on The Cell Biology of Trophoblast Invasion In Vivo and In Vitro held during the XXIV Annual Meeting of the Cell, Tissue and Organ Culture Study Group (C.T.O.C.) at Heidelberg in 1986. What was unusual about this Conference was the interdisciplinary dialogue between implantation researchers and tumor biologists, highlighting aspects common to invasion of trophoblast and tumor cells.

Vascular Biology of the Placenta Yuping Wang,Shuang Zhao,2010 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.

MICRORNA LET-7A REGULATES INTE 王彦,2017-01-26 This dissertation, MicroRNA Let-7a Regulates Integrin Beta-3, Vav3, and Dicer to Modulate Trophoblast Activities and Hence Embryo Implantation by 王彦, Wan-yee, Ana, Cheong, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: MicroRNAs are small regulatory RNAs that bind to the seeding regions within the 3'-untranslated region (3'-UTR) of their target transcripts to modulate transcript stability and/or inhibit protein translation. MicroRNA Let-7a belonging to the Lethal-7 (Let-7) family is down-regulated at the blastocyst stage, suggesting its suppression is crucial for embryo implantation. Yet, the underlying mechanism on how Let-7a modulates blastocyst implantation remains largely unknown. In silico analysis identified attachment related integrin beta-3, outgrowth related vav3, and the microRNA processing dicer, as Let-7a targets. Therefore, it is hypothesized that down-regulation of Let-7a promotes embryo implantation by stimulating these target proteins. Let-7a is down-regulated during blastulation and at 3-hour post-estradiol activation of the dormant blastocysts. Force-expression of Let-7a in mouse blastocysts suppressed blastocyst attachment, outgrowth on fibronectin-coated plates and compromised pregnancy in vivo. Dual luciferase assay using the 3'-UTR reporter constructs of the integrin beta-3, vav3, and dicer confirmed the interaction between Let-7a and the three targets. Force-expressing or inhibiting Let-7a expression in mouse blastocysts by electroporating the Let-7a precursor or inhibitor respectively illustrated post-transcriptional regulation of Let-7a on integrin beta-3 and vav3, and transcriptional regulation on dicer. Dormant blastocysts retrieved from the delayed implanting mice expressed high Let-7a levels, which was suppressed in the first 12-hours of estradiol activation. Concomitantly, dormant blastocysts expressed low levels of integrin beta-3, vav3, and dicer, yet, their protein expression was up-regulated from 3 hours-post estradiol activation. Furthermore, addition of integrin beta-3 antibody suppressed attachment of trophoblast spheroids (blastocyst surrogate) onto endometrial epithelial cells in a co-culture model and the outgrowth of the spheroids on fibronectin-coated plates. Knockdown of Vav3 with siRNA decreased blastulation, hatching, and outgrowth rates of the embryos in vitro. Although the loss of vav3 activities did not affect embryo implantation, it suppressed trophoblast migration on fibronectin-coated plates and invasion into collagen matrix. In contrast, force-expression of vav3 enhanced blastocyst outgrowth, and promoted cell proliferation. Blocking integrin beta-3 activities in the vav3 knock-down embryos further suppressed blastocyst outgrowth, suggesting the intertwining effect of the integrins and vav3. Dicer knock-down in mouse blastocysts decreased mature Let-7a expression and suppressed blastulation and hatching in vitro and implantation in vivo. Dicer knock-down in estradiol activated mouse blastocysts decreased the epidermal growth factor receptor expression and lowered the affinity of the embryos to EGF, and suppressed the implantation potential to a level similar to that of dormant blastocysts. Taken together, the suppression of Let-7a by estradiol up-regulates integrin beta-3, vav3, and dicer. The increased Itgb3 expression promotes blastocyst attachment and intertwined with the up-regulated vav3 expression to enhance blastocyst outgrowth. The increased vav3 expression further stimulates cell proliferation and confers blastocyst invasion into the collagen matrix. Dicer, by alt

Molecular Research of Endometrial Pathophysiology Paola Viganò,Andrea Romano,2019-10-14 The endometrium has been the subject of intense research in a variety of clinical settings, because of its importance in the reproductive process and its role in women's health. In the past 15 years, significant efforts have been invested in defining the molecular phenotype of the receptive phase endometrium as well as of various endometrial pathologies. Although this has generated a wealth of information on the molecular landscape of human endometrium, there is a need to complement this information in light of the novel methodologies and innovative technical approaches. The focus of this International Journal of Molecular Sciences Special Issue is on molecular and cellular mechanisms of endometrium and endometrium-related disorders. The progress made in the molecular actions of steroids, in the metabolism of steroids and intracrinology, in endometrial intracellular pathways, in stem cells biology, as well as in the molecular alterations underlying endometrium-related pathologies has been the focus of the reviews and papers included.]

Preimplantation Embryo Development Barry D. Bavister,2012-12-06 This volume contains the Proceedings of the Sero Symposium on Pre implantation Embryo Development, held in Newton, Massachusetts, in 1991. The idea for the symposium grew out of the 1989 Sero Symposium on Fertilization in Mammals* at which preimplantation development was the predominant suggestion for a follow-up topic. This was indeed a timely subject in view of the recent resurgence of interest in this fundamental phase of embryogenesis and its relevance to basic research and applied fertility studies in humans, food-producing animals, and endangered species. The symposium brought together speakers from a broad range of disciplines in order to focus on key regulatory mechanisms in embryo development, using a wide variety of animal models, and on representative topics in human preimplantation embryogenesis. The culmination of preimplantation development is a blastocyst containing the first differentiated embryonic tissues and capable of initiating and sustaining pregnancy. The central objective of the symposium was to throw light on the regulation of cellular and molecular events underlying blastocyst formation. It was particularly appropriate that the date of the symposium marked the 20th anniversary of the publication of the classic volume Biology of the Blastocyst, the proceedings of an international workshop held in 1970. This book, which summarized most of the information then available on this topic in mammals, was edited by the pioneer in blastocyst research, Dr. Richard Blandau, who was the guest speaker at the symposium.

Handbook of Endocrinology, Second Edition George H. Gass,Harold M. Kaplan,1996-06-17 Stay on top of the rapid changes sweeping endocrinology today with the latest information on important selected topics in The Handbook of Endocrinology. This extensive two-volume text provides an impressive breadth and depth of coverage difficult to find in other sources. After a broad survey of the functions of major endocrine glands, the book launches into detailed reviews of both established and hot, new research areas. Selected topics include:

Fetal Alcohol Syndrome Ernest L. Abel,2022-01-26 Recognition of the relationship between alcohol abuse and adverse prenatal outcomes is reflected in the warning labels on every alcoholic beverage sold in the United States. Because alcohol abuse has serious consequences for both individuals and society as a whole, much research has been devoted to this problem. Fetal Alcohol Syndrome provides straightforward facts regarding the impact of alcohol consumption as it affects the development of the embryo and fetus. Surveying current research of fetal alcohol syndrome and its related problems, the book addresses the immediate effects on development at various stages. Long-term action of prenatal alcohol exposure later in life is also considered. A chapter devoted to assessing the behavior of children who were prenatally exposed to alcohol

emphasizes the necessity of longitudinal studies of fetal alcohol syndrome. This important reference offers a thorough overview of a problem that cannot be ignored.

Endocrinology of Embryo—Endometrium Interactions Stanley R. Glasser, Joy Mulholland, Alexandre Psychoyos, 2012-12-06 Early embryonic loss is a continuing social and economic global problem. In human populations the estimates of interruptions early in pregnancy range from 35-60%. In animal husbandry (swine, ruminants) fully 30% of pregnancies fail to survive early events of gestation. The fertility associated with this persistent high risk is even more unsettling because of advances made in assisted reproductive technology which, although this very selective methodology has added to our knowledge of embryo-endometrial interactions, has resulted in a birth rate of only 14%. These studies have instigated comparisons of the live relative contributions of the embryo and the uterus to the outcome of pregnancy. These analyses have shown that we have learned significantly less about the role of the uterus in deciding the outcome of either natural or assisted pregnancies. In 1979 a quotation by George Corner was used to set the tone of a meeting that was devoted to discussion of the cellular and molecular aspects of implantation. In spite of the proliferation in research activity which occurred in the following 15 years our real understanding of the embryo transfer process has fallen short of our expectations. We use the Corner quotation, once again, to preface this symposium so that we may recall that the fundamental nature of the process which regulates embryo-endometrial interactions still escapes us.

Early Pregnancy Roy G. Farquharson, Mary D. Stephenson, 2017-02-02 Updated in light of recent research findings on fertilization, implantation and early pregnancy, this new edition combines the expertise of a wide range of internationally renowned authors to produce an authoritative, multidisciplinary approach to the management of first-trimester complications. Several international guidelines and consensus statements have been released since publication of the first edition and this has stimulated new focussed research questions that are addressed. The book's key recommendations provide clinicians with the tools to improve the patient's experience of the management of first-trimester complications. By combining essential elements of scientific research and clinical care, Early Pregnancy continues to set a benchmark for evidence-based management and will be essential reading for obstetricians, gynaecologists, neonatologists, ultrasonographers, and nurses seeking an understanding of the reproductive science of early pregnancy.

Principles and Practice of Assisted Reproductive Technology Kamini A Rao, Vyshnavi A Rao, Devi R, 2023-01-18 VOLUME 1: INFERTILITY SECTION 1: ANATOMY AND PHYSIOLOGY 1. Anatomy of the Reproductive System 2. Regulation and Physiology of Menstrual Cycle 3. Oogenesis and Folliculogenesis 4. Spermatogenesis 5. Fertilization and Embryogenesis 6. Implantation 7. Embryo Endometrial Crosstalk and Endometrial Receptivity SECTION 2: REPRODUCTIVE ENDOCRINOLOGY 8. Synthesis and Metabolism of Steroid Hormones 9. Puberty and Aberrations 10. Amenorrhea 11. Endocrine Disorders Affecting Reproduction 12. Hirsutism 13. Luteal Phase Defect 14. Anovulation 15. Declining Fertility SECTION 3: COMBINED TOPICS 16. Evaluation of Infertility 17. Immunology and Infertility 18. Cytogenetics and Subfertility 19. Obesity and Infertility 20. Unexplained Infertility 21. Fertility Preservation 22. Counseling in Infertility 23. Assisted Reproductive Technology in Patients with Chronic Medical Disorders SECTION 4: MALE INFERTILITY 24. Etiopathogenesis of Male Infertility 25. Clinical and Endocrinological Evaluation of Infertile Male 26. Sexual Dysfunction in Male Infertility 27. Ultrasound in Male Infertility 28. Medical Management of Male Infertility 29. Azoospermia: Evaluation and Management 30. Varicocele and Infertility 31. Spinal Cord Injuries and Male Infertility 32. Algorithms for Genetic Evaluation of Infertile Males SECTION 5: FEMALE FACTOR INFERTILITY 33. Uterine Factors in Infertility 34. Tubal Factors in Infertility 35. Infections and Infertility 36. Tuberculosis and Infertility 37. Sonoendocrinology and Cycle Monitoring Assisted Reproduction Technology 38. Transvaginal Ultrasound and Doppler in Infertility 39. Polycystic Ovary Syndrome 40. Assessment of Ovarian Reserve 41. Endometriosis 42. Endoscopy in Infertility 43. Reconstructive Surgeries Enhancing Fertility SECTION 6: INTRAUTERINE INSEMINATION 44. Intrauterine Insemination 45. Optimizing Success in Intrauterine Insemination SECTION 7: OVARIAN STIMULATION 46. Drugs for Ovarian Stimulation 47. Ovulation Induction and Ovarian Stimulation Protocols 48. Role of Adjuvants in Ovarian Stimulation 49. Gonadotropin-releasing Hormone Analogs 50. Monitoring of Ovarian Stimulation 51. Ovulation Trigger 52. Individualized Controlled Ovarian Stimulation 53. In Vitro Fertilization Lite 54. Role of Luteinizing Hormone in Ovarian Stimulation 55. Anesthesia in Assisted Reproductive Techniques 56. Oocyte Retrieval. 57. Embryo Transfer 58. Troubleshooting in Assisted Reproductive Technology 59. Luteal Phase Support SECTION 8: DILEMMA IN ART 60. Poor Responder 61. Recurrent Implantation Failure 62. Empty Follicle Syndrome 63. Role of Aneuploidy Screening in Preimplantation Embryos 64. Preimplantation Genetic Testing of Embryos 65. Epigenetics and Assisted Reproductive Technology SECTION 9: COMPLICATIONS IN ART 66. Ovarian Hyperstimulation Syndrome 67. Ectopic Pregnancy 68. Multiple-order Births SECTION 10: THIRD PARTY REPRODUCTION 69. Oocyte and Sperm Donation 70. Surrogacy in Assisted Reproductive Technology 71. Assisted Reproductive Technology Guidelines 72. Adoption 73. LGBTQ and Fertility 74. Transgender Population and Fertility SECTION 11: OUTCOME FOLLOWING ASSISTED REPRODUCTIVE TECHNIQUE 75. Maternal and Fetal Outcomes Following Assisted Reproductive Technique 76. Early Pregnancy Scan 77. Recurrent Pregnancy Loss: From Diagnostic Dilemmas to Clinical Decisions SECTION 12: RECENT ADVANCES 78. Bioengineered Human Endometrium In Vitro. 79. Recent Trends in A...

Human Reproductive and Prenatal Genetics Peter C.K. Leung, Jie Qiao, 2023-03-22 Human Reproductive and Prenatal Genetics, Second Edition provides application-driven coverage of key topics in human reproductive and prenatal genetics, including genetic control underlying the development of the reproductive tracts and gametogenesis, the genetics of fertilization and implantation, the genetic basis of female and male infertility, as well as genetic and epigenetic aspects of assisted reproduction. Also examined are the genetics and epigenetics of the placenta in normal and abnormal pregnancy, preimplantation genetic diagnosis and screening, and cutting-edge advances in noninvasive prenatal screening, prenatal genetic counseling, and bioethical and medicolegal aspects of relevance in the lab and clinic. This new edition has been fully revised to address new and evolving technologies in human reproductive genetics, with new chapters added on chromatin landscapes and sex determination, genetic alterations of placental development and preeclampsia, metabolism and inflammation in PCOS, pre-implantation genetic testing, maternal genetic disorders, bioethics, and future applications. Features chapter contributions from leading international scientists and clinicians Provides in-depth coverage of key topics in human reproductive and prenatal genetics, including genetic controls, fertilization, placental development, embryo implantation, in vitro culture of the human embryo for the study of post-implantation development, and more Identifies how researchers and clinicians can implement the latest genetic, epigenetic, and -omics-based approaches Includes all new chapters on evolving technologies and recent genetic discoveries of relevance to reproductive medicine

Cellular and Molecular Aspects of Implantation Stanley R. Glasser, David W. Bullock, 2012-12-06 Long was I hugg'd close-long and long. Immense have been the preparations for me, Faithful and friendly the arms that have help'd me. Cycles ferried my cradle, rowing and rowing like friendly boatmen. For room to me stars kept aside in their own rings, They sent influences to look after what was to hold me. Before I was born out of my mother, generations guided me, My embryo has never been torpid, nothing could overlay it. -Walt Whitman, Song of Myself The womb is the seat of all mammalian life. In pregnancy, the uterus acquires this importance with the arrival of the fertilized egg, which takes up residence for periods ranging from about 2 weeks in the opossum to about 2 years in the elephant. The arrival of the embryo signals a crucial time for the establishment of pregnancy. For several days the blastocyst remains free in the uterine lumen, where it depends on uterine secretions for its survival and differentiation. During this time, essential changes in the endometrium take place in preparation for attachment of the blastocyst and implantation. Early embryonic loss is an economic problem of global proportions in animal husbandry, where, in pigs and cattle for example, some 30% of all fertilizations fail to result in a pregnancy. In humans this figure may be even higher, and estimates of early spontaneous abortions range from 40 to 60% of all conceptions.

Cell Invasion Jyrki Heino, 2002-08-01 Provides an overview of cell invasion. Topics include information on the cellular matrix, cell surface integrins, matrix metalloproteinases and proteinases, and the interplay between protein families.

Issues in Cancer Epidemiology and Research: 2011 Edition, 2012-01-09 Issues in Cancer Epidemiology and Research / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Cancer Epidemiology and Research. The editors have built Issues in Cancer Epidemiology and Research: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the

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Gestational Trophoblastic Disease Pei Hui,2011-12-14 In this volume Dr Hui has brought together a comprehensive overview of gestational trophoblastic disease that includes all the currently recognized entities: complete and partial hydatidiform moles, placental site trophoblastic tumor, epithelioid trophoblastic tumor, gestational choriocarcinoma, persistent gestational trophoblastic neoplasia, placental site nodule and exaggerated placental site reaction. Each entity is reviewed in detail, with emphasis on genetic background, clinical presentation, pathologic findings and ancillary studies, differential diagnosis and clinicopathological correlations. Descriptions of the pathology are supported by numerous excellent photomicrographs. Recent advances in our understanding of the genetics of gestational trophoblastic diseases are stressed. Introductory chapters cover the developmental biology of the placenta and the genetic basis of gestational trophoblastic disease, and one chapter is devoted to the molecular diagnosis of gestational trophoblastic disease. This chapter includes a review of the use of short tandem repeat (STR) genotyping which is of particular value in the diagnosis of hydatidiform moles. The final chapter covers clinical aspects of gestational trophoblastic disease, including treatment. The text throughout is current and thoroughly referenced. This book will be of great value to pathologists, community gynecologists, gynecological pathologists and medical students.

How to Prepare the Endometrium to Maximize Implantation Rates and IVF Success Gabor Kovacs,Lois Salamonsen,2019-01-17 Practical, evidence-based review of all factors that can affect the endometrium and influence implantation success rates.

Yen and Jaffe's Reproductive Endocrinology Jerome Frank Strauss,Robert L. Barbieri,2009-01-01 Thoroughly revised and now enhanced with color artwork, this new edition offers the latest information on the diagnosis and management of reproductive endocrine disorders. As an Expert Consult title, it includes convenient online access to the complete text of the book along with all of the images and references linked to Medline.

Fertility, Pregnancy, and Wellness Diana Vaamonde,Anthony C. Hackney,Juan Manuel Garcia-Manso,2022-02-09 Fertility, Pregnancy, and Wellness is designed to bridge science and a more holistic approach to health and wellness, in particular, dealing with female-male fertility and the gestational process. Couples seeking to solve fertility issues for different reasons, whether failed assisted reproductive techniques or the emotional impact they entail, economic or moral reasons, are demanding more natural ways of improving fertility. This book explores the shift in paradigm from just using medications which, in the reproductive field, can be very expensive and not accessible to the entire population, to using lifestyle modifications and emotional support as adjunctive medicine therapies. This must-have reference brings together the current knowledge - highlighting the gaps - and delivers an important resource for various specialists and practitioners. Offers insights from scientific and holistic methods, providing the available scientific evidence for (or against) different holistic approaches, aimed at improving fertility, health and wellness Bridges the more ‘peripheral’, yet critical and multidisciplinary, considerations in fertility, infertility, pregnancy and wellness Includes clear, concise and meaningful summary conclusion sections within each chapter

Connective Tissue Cells: Advances in Research and Application: 2011 Edition ,2012-01-09 Connective Tissue Cells: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Connective Tissue Cells. The editors have built Connective Tissue Cells: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Connective Tissue Cells 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 Connective Tissue Cells: Advances in 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/>.

Immunology of Recurrent Pregnancy Loss and Implantation Failure Joanna Kwak-Kim,2022-07-03 Immunology of Recurrent Pregnancy Loss provides doctors and immunologists with the information they need to help couples who experience recurrent pregnancy losses. Sections cover unexplained infertility, repeated in vitro fertilization, embryo transfer failures, history of second or third trimester pregnancy losses of unknown cause, or pregnancy with a history of or active autoimmune and/or alloimmune disease. Reproductive failure (RF), including recurrent pregnancy losses (RPL) and repeated implantation failures (RIF) is rather a syndrome than a disease caused by multiple etiologies, such as anatomical, endocrine, genetic, infectious, immunological, thrombotic and unexplained etiologies, hence this book strives to present the latest information. In 27 chapters, divided in 5 sections, the book introduces the current update of reproductive immunology topics in RF and provides systematic diagnostic guidelines, systemic and immune etiologies and therapeutic approaches. Provides detailed immunological background for understanding the etiology and management of reproduction failure Evaluates various immunological factors involved in the pathogenesis and management of reproduction failure Gives insights into various immunological and therapeutic approaches for reproduction failure

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