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**Micromanipulation in Assisted Conception** - Steven D. Fleming - 2003-11-06
This practical handbook provides an extremely comprehensive, highly illustrated and up-to-date guide to micromanipulation techniques in assisted conception in a clinical setting. It includes detailed, illustrated descriptions of all the common micromanipulation systems currently in use in IVF laboratories around the world and clearly explains how to optimise their successful use. The volume covers state-of-the-art techniques including intracytoplasmic sperm injection (ICSI), and procedures such as assisted hatching and the blastomere biopsy (for preimplantation genetic diagnosis PGD). Valuable information on troubleshooting the potential mechanical and technical difficulties that can arise is provided to help all the practitioners of these techniques, including trainee embryologists and consultant obstetricians, and technicians and scientists involved in animal transgenesis and cloning. It will undoubtedly be of immense value to all doctors and scientists working with assisted reproductive technologies.

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For around half of the couples who have trouble conceiving the cause of infertility is sperm-related. Intracytoplasmic sperm injection (ICSI) is the most common and successful treatment for male infertility. Here, the pioneers for the technique, along with authorities in the field, describe the underlying science of ICSI and other micromanipulation techniques. Practical advice for performing the techniques is covered in depth, including sperm selection, laser-assisted ICSI, and the use of piezo in ICSI. Examining the safety of ICSI in animal models as well as the impact of ICSI on the health and well-being of the children conceived through the procedure is discussed. This manual is an essential resource for clinical embryologists and laboratory personnel wishing to refine or develop techniques and improve outcomes.

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**Gamete and Embryo Micromanipulation in Human Reproduction** - Edwin Malcolm Symonds - 1993
Assisted reproduction or ‘in vitro’ fertilization (IVF) techniques have been developed and refined over the last thirteen years to provide help for subfertile couples. More recently, micromanipulation techniques have been used successfully to achieve fertilization in patients not helped by normal IVF. This book brings together the most recent advances in micromanipulation techniques from internationally renowned IVF centres and discusses the technical, legal and ethical considerations ofwork on the human embryo.

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A comprehensive text on the process of human fertilization and reproduction and the technique of in-vitro fertilization and embryo transfer. Includes coverage of assisted fertilization and the potential applicability of genetic diagnosis of the pre-implantation embryo. Discusses clinical methods for treating both infertile men and infertile women comprehensively, preparing readers to handle even the most complicated clinical disorders affecting fertile couples. Covers the evaluation, processing, and preparation of sperm samples for assisted reproduction. Details the latest techniques for inducing ovulation, obtaining oocytes, and evaluating and preparing them for fertilization. Presents state-of-the-art techniques in genetic analysis and immunologic assays, as well as the latest micromanipulation techniques. Discusses the detection of genetic problems prior to implantation. Provides guidance in the evaluation of pregnancies following assisted reproduction, and explains the statistics of assisted reproduction and success rates.

In Vitro Fertilization - Elizabeth S. Ginsburg - 2012-12-12
In Vitro Fertilization: A Comprehensive Guide represents the next frontier in the integrated clinical and laboratory practice of ART. Uniquely balanced, the book provides the necessary understanding of the key laboratory techniques involved in ART and the complex aspects of clinical care. Featuring the contributions of world leaders in the field, the guide begins with the evaluation of the infertile woman and man. It then moves on to discuss treatment protocols and adjunctive treatments. Techniques for oocyte retrieval, insemination, and culture, and embryo transfer and cryopreservation are explored in detail. This comprehensive book covers all aspects of IVF and includes special sections on oocyte and embryo donation as well as gestational carriers, making it ideal for practicing clinicians. Advances such as pre-implantation genetic diagnosis and screening, in vitro maturation, and means of fertility preservation, including oocyte and ovarian tissue cryopreservation, are also covered. The book concludes with dedicated chapters on quality assessment and improvement, regulation and legal concerns, and stress and ART. Readers will gain complete in-depth knowledge of the most current therapies and techniques, enabling optimal care and counsel of their infertile patients.

In Vitro Fertilization - Kay Elder - 2010-12-02
This fully updated new edition of a successful and popular practical guide is an indispensable account of modern in-vitro fertilization practice. Initial chapters cover theoretical aspects of gametogenesis and embryo development at the cellular and molecular level, while the latter half of the book describes the requisites for a successful IVF laboratory and the basic technologies in ART. Advanced techniques, including pre-implantation genetic diagnosis, vitrification and stem-cell technology, are comprehensively covered, providing up-to-date analyses of these groundbreaking technologies. This edition includes: • New practical techniques, including preservation of fertility for cancer patients, stem-cell biology/technology, vitrification and in-vitro maturation • A ‘refresher’ study review of fundamental principles of cell and molecular biology • The latest technology and information available from animal and human research in reproductive biology Packed with a wealth of practical and scientific detail, this is a must for all IVF practitioners.

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and research methods. Written for all levels of IVF practitioners, reproductive biologists and technologists
Biotechnology including fishery, that are not sheltered in depth in earlier publications. It offers an update on
innovative techniques and advances in key aspects of genetic engineering, metagenomics, assisted
reproduction, animal genomics, biotechnology in veterinary health, as well as the role of gut and marine microbial
ecosystems in livestock and industrial development. The book is divided broadly into five different sections, viz.,
Gut Microbiome and Nutritional Biotechnology, Assisted Reproduction Biotechnology, Livestock Genomics, Health
Biotechnology, and Animal Biotechnology in Global Perspective. The book covers the syllabus of Animal
Biotechnology courses in various universities, academia and competitive examinations at various levels.
Researchers, Continuing Graduates, and Academicians, Research Institutions, and Biotech Companies will be
benefited from this valuable compilation of research. Its broad spectrum makes this work a valuable resource for
professionals, researchers, academics and students in the field of veterinary and animal production as well as the
biotechnology industry.

Advances in Reproductive Technology Research - Ignatz Sanger - 2013-01-01
Assisted reproductive technology (ART) now accounts for 1-3% of all live births in the western world. Several
procedures that may be used in the ART process are hormonal stimulation, egg retrieval, in vitro fertilization
(IVF), intra-cytoplasmic sperm injection, micro-manipulation of gametes; and exposure to culture medium.
Although these techniques are considered safe, in recent years evidence has been accumulating that ART may be
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provides current research in reproductive technology with a focus on Down’s Syndrome screening in assisted
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Textbook of Clinical Embryology - Kevin Coward - 2013-10-31
The success of Assisted Reproductive Technology is critically dependent upon the use of well optimized protocols,
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molecular biological techniques and advanced methods for the manipulation of gametes and embryos. This
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In Vitro Fertilization - Zsolt Peter Nagy - 2019-07-03
Now in its revised and expanded second edition - including over 20 new chapters - this comprehensive textbook
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and technologies comprising in vitro fertilization (IVF). Arranged thematically in sections, each chapter covers a
key topic in IVF in a sensible presentation. Parts one and two describe the planning, design and organization of an
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descriptions of IVF techniques, embryo culture methods, sperm processing and selection, insemination
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address issues of management and regulation of ART labs across the globe, as well as special topics and emerging
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With the addition of learning key points and review questions at the beginning and end of each chapter, this new
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Reproductive Medicine for the MRCOG - Siladitya Bhattacharya - 2021-02-28
An authoritative account of the causes of infertility that fully explores the clinical assessment of patients and
covers the decision-making behind treatment options. The content follows the MRCOG syllabus as well as delving
deeper into subjects covered by the RCOG Advanced Training Skills Modules (ATSMs), leaving readers well
prepared for their examinations. Written by nationally recognised leaders in the field, this volume concisely
reviews contemporary clinical practice. Using an aetiology-based approach, chapters discuss ovulatory
dysfunction, endometriosis, male infertility, uterine/tubal factors and unexplained infertility. The increasing use of
third-party reproduction and surrogacy is explored, along with the psychosocial aspects of this type of treatment.
Ethical dilemmas surrounding reproductive medicine and their management are covered in depth. With an
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learn how to ensure the support and care they offer is of the highest quality.

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Advances in Assisted Reproductive Technologies - Z. BenRafael - 2012-12-06

The World Congress of In Vitro Fertilization and Alternate Assisted Reproduction, held in Jerusalem, Israel, 2-7 April, 1989, was the sixth in the sequence of these Congresses, but was the first to emphasize the major importance and the place of assisted reproductive technologies in the treatment of infertility. The eternal City of Jerusalem witnessed the gathering of more than 1500 participants from all over the world who shared and exchanged knowledge and up-to-date experience in this ever-evolving field. The high quality scientific contributions to the Congress culminated in the publication of this Proceedings. It embraces all-important aspects in the field of in vitro fertilization and alternate assisted reproduction. Papers on controversies and diversities of methods to stimulate the ovaries, imaging techniques, basic research and state-of-the-art papers on ovarian physiology, the role of GnRH and its analog, clinical aspects of IVF treatment and cryopreservation, up-to-date techniques in assisted reproductive technologies that are quickly developing in conjunction with IVF, were included. When should IVF be preferable to surgery? What are the ex pected up-to-date world results and what are the psychological, moral, ethical and religious implications? These are all the concerns of the treating team and are addressed here. Male factor infertility remains a frustrating problem, but advances in the understanding of sperm-egg interaction, sperm evaluation and preparation are reported. Micromanipulation emerges as a possible alternative to bring some relief to this problem, but it also promises to be central in promoting the field of prenatal genetic analysis.

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Advanced Mechanical Models of DNA Elasticity - Yakov M Tseytlin - 2016-07-29

Advanced Mechanical Models of DNA Elasticity includes coverage on 17 different DNA models and the role of elasticity in biological functions with extensive references. The novel advanced helicoidal model described reflects the direct connection between the molecule helix structure and its specific properties, including nonlinear features and transitions. It provides an introduction to the state of the field of DNA mechanics, known and widely used models with their short analysis, as well as coverage on experimental methods and data, the influence of electrical, magnetic, ionic conditions on the persistence length, and dynamics with viscosity influence. It then addresses the need to understand the nature of the non-linear overstretched transition of DNA under force and why DNA has a negative twist-stretch coupling. Includes coverage of 17 contemporary models of DNA mechanics with analysis. Provides comparison of DNA and RNA mechanical features Covers advances in experimental techniques including AFM, X-ray, and optical tweezers Contains extensive references for further reading

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physiological conditions of the in-vivo environment that the embryo travels through in the in-vitro culture is still a major challenge in ART. This practical volume details how to organize and operate an IVF laboratory in order to mimic these conditions for successful embryo culture. Environments and equipment that are essential for running safe and efficient facilities such as maintaining good air quality and hygiene protocols, and utilizing an effective layout are covered in detail. Other chapters discuss the different consumables needed, optimal handling techniques and parameter monitoring systems, as well as recent advances in the area including artificial intelligence and automation. This is an indispensable guide to understanding the background science of culturing embryos, crucial to successful outcomes in ART.

**Manual of Sperm Retrieval and Preparation in Human Assisted Reproduction** - Ashok Agarwal - 2021-06-10
A complete guide to sperm retrieval methods performed for men with azospermia, aimed at andrologists and male fertility specialists.

**Practical Problems in Assisted Conception** - Ying Cheong - 2018-09-20
Practical and effective; this book supports challenging clinical and laboratory issues that the IVF practitioner faces all day, every day.

Textbook of Assisted Reproductive Techniques has become a classic comprehensive reference for the whole team at the IVF clinic. The fourth edition comes more conveniently as a set of two separate volumes, one for laboratory aspects and the other for clinical applications. The text has been extensively revised, with the addition of several important new contributions on laboratory aspects including developing techniques such as PICSI, IMSI, and time-lapse imaging. The second volume focuses on clinical applications and includes new chapters on lifestyle factors, tailored ovarian stimulation, frozen-thawed embryo transfer, viral disease, and religious perspectives. As before, methods, protocols, and techniques of choice are presented by eminent international experts. The two volume set includes: ■ Volume One - Laboratory Perspectives ■ Volume Two - Clinical Perspectives

**Reproductive Tissue Banking** - Armand M. Karow - 1997-03-20
Reproductive technologies to assist in both human conception and animal breeding are increasingly in demand. These technologies, along with the advent of tissue engineering, have propelled the challenges of tissue collection, preservation, and banking to the research forefront. Using examples drawn from reproductive technologies, Reproductive Tissue Banking presents the scientific principles underlying tissue banking. These examples serve as models for the technology of banking other living tissues, including blood, bone marrow, cornea, and skin. In discussing research emerging from their laboratories and those of others, the authors meld fundamentals of biology, chemistry, and physics with the latest discoveries in the field to give the reader profound
Preimplantation Diagnosis of Genetic Disease - Yury Verlinsky - 1993

Preimplantation Diagnosis of Genetic Diseases A New Technique in Assisted Reproduction Editors: Yury Verlinsky and Anver M. Kuliev For individuals with hereditary genetic disorders such as cystic fibrosis, muscular dystrophy, or hemophilia, the decision to reproduce can be a profoundly difficult and emotional problem. For specialists in reproductive medicine, this situation can raise a myriad of complex—often conflicting—ethical questions. Recently, a revolutionary approach to screening for genetic disorders has emerged, offering unique possibilities for resolving this dilemma. Preimplantation Diagnosis of Genetic Diseases: A New Technique in Assisted Reproduction details the latest procedures for detecting congenital disease in gametes prior to fertilization or in embryos fertilized in vitro prior to uterine implantation. This book covers current methods used in oocyte and preembryo sampling as well as the latest techniques in DNA and cytogenetic analysis in preimplantation development. This text presents detailed, practical information on such crucial topics as: blastomere and blastocyst biopsy for preimplantation genetic analysis oocyte retrieval and embryo transfer for in vitro fertilization preparation of necessary media and micromanipulation tools polymerase chain reaction techniques for DNA analysis and preimplantation genetic analysis of embryos preimplantation genetic screening. Serving as both a practical manual for current methods and a reference for future research and clinical applications, Preimplantation Diagnosis of Genetic Diseases: A New Technique in Assisted Reproduction provides a complete overview of this dramatic development in reproductive medicine. This book will be of interest to specialists in fertility medicine, obstetrics and gynecology, embryology, genetics, molecular biology, and cytogenetics whose work defines this new frontier in biomedical science.

Textbook of Assisted Reproductive Techniques - David K. Gardner - 2017-12-15
Established as a definitive reference for the IVF clinic, the fifth edition has been extensively revised, with the addition of several important new contributions on clinical topics, including GnRH agonist triggering, segmentation of IVF treatment, uterus transplantation, and risk and safety management. As previously, methods, protocols, and techniques of choice are presented by IVF pioneers and eminent international experts.

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Pregnancy After Assisted Reproductive Technology - Eric Jauniaux - 2012-09-06
It is estimated that more than 4.5 million couples experience infertility each year, and more than 4 million babies have been born using IVF since 1978. However, assisted reproductive technologies continue to raise many medical, social, ethical, political and religious questions, often leading to controversial and sometimes inaccurate opinions about the outcomes of pregnancies resulting from these techniques. This is the first book dedicated to pregnancies arising from assisted reproductive technologies (ART). Chapters cover the most important management issues, from early pregnancy to outcome of children resulting from ART, including gynaecological, genetic and obstetric complications. Each chapter is written and edited by leading experts in the field of human reproduction. A timely, practical and evidence-based guide to the management of ART pregnancies, based on 30 years of clinical experience, this is essential reading for reproductive and maternal-fetal specialists as well as general obstetricians and gynaecologists.

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Organization and Management of IVF Units - Steven D. Fleming - 2016-08-23

Bringing together the latest information on the organization, management and quality of in-vitro fertilization (IVF) units, this is the first true field guide for the clinician working in assisted reproductive technologies (ART). Divided thematically into four main sections, part one discussed the establishment and organization of the IVF unit, including location, design and construction, practical considerations for batching IVF cycles, and regulations and risk management. Part two, the largest section, covers the many aspects of overall quality management and its implementation - staff and patient management, cryobank and PGD/PGS management, and data management - as well as optimization of treatment outcomes and statistical process control analysis to assess quality variation. Part three addresses the relationship between IVF units and society at large, including the ethics of IVF treatment, as well as public/low-cost and private/corporate IVF units. Advertising and marketing for IVF units is discussed in part four, including the building and managing of websites and the use of traditional print and social media. With approximately five thousand IVF units worldwide and a growing number of training programs, Organization and Management of IVF Units is a key resource for clinic directors, unit managers, embryologists, quality experts, and students of reproductive medicine and clinical embryology.

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Handbook of the Assisted Reproduction Laboratory - Brooks A. Keel - 2000-07-01

With the advent of Assisted Reproductive Technologies, our understanding of the reproductive system in both men and women has progressed in an exponential manner. Along with this increase in knowledge has emerged new and advanced laboratories performing unique techniques aimed at diagnosing and treating infertility problems. And as these laboratories expand, the need for properly trained technicians has also emerged. But while many ART labs are staffed with biologists well trained in reproductive research techniques, they lack the necessary skills to effectively manage these labs. The Handbook of the Assisted Reproduction Laboratory addresses many of the management issues and basic background information on reproductive biology and medicine needed by the technicians staffing and directing these ART labs. Internationally recognized experts in the field discuss various topics in this handbook, which: Reviews male and female reproductive systems and processes Discusses the clinical diagnosis and management of male and female infertility Provides new information on the state-of-the-art techniques of egg and embryo culture, micromanipulation, and biopsy Presents various aspects of quality control, quality assurance, and clinical laboratory management With its in-depth analysis of management issues, as well as basic background information on reproductive biology and medicine, the Handbook of the Assisted Reproduction Laboratory serves as an ideal guide for current investigation and as a stimulus for future developments in the field.

If at First You Don't Conceive - William Schoolcraft - 2010-03-16

More than 7.5 million women in the United States are unable to have children because of infertility challenges, according to the American Society for Reproductive Medicine. Women and men diagnosed with infertility often feel overwhelmed and panicked; they are eager for accessible information and medically sound guidance. In this breakthrough book, Dr. Schoolcraft, one of the most renowned fertility specialists, offers hope to prospective parents by explaining what they need to know, including: • choosing the right physician and clinic • finding proven treatments for each condition • dealing with the emotional challenges of infertility • understanding the financial aspects of treatment If at First You Don’t Conceive offers the latest information in the key areas of fertility drugs, insemination, in vitro fertilization, male infertility treatments, fertility options for cancer patients, and much more. It saves millions of hopeful parents from suffering and confusion by allowing them to become their own best advocates in the fight for fertility.

If at First You Don't Conceive - William Schoolcraft - 2010-03-16

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The Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices is a unique, accessible title that provides a complete review of the most well-established and current diagnostic and treatment techniques comprising in vitro fertilization. Throughout the chapters, a uniform structure is employed, including a brief abstract, a keyword glossary, a step-by-step protocol of the laboratory procedures, several pages of expert commentary, key issues of clinical concern, and a list of references. The result is a readily accessible, high quality reference guide for reproductive endocrinologists, urologists, embryologists, biologists and research scientists. The Manual also offers an excellent description of novel procedures that will likely be employed in the near future. An indispensable resource for physicians and basic scientists, the Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices is an invaluable reference and addition to the literature.

Textbook of Assisted Reproduction - Zsolt Peter Nagy - 2012-04-23
Groundbreaking, comprehensive, and developed by a panel of leading international experts in the field, Textbook of Assisted Reproduction provides a multidisciplinary overview of the diagnosis and management of infertility, which affects 15% of all couples around the world. The book aims to cover all aspects of assisted reproduction. Particular attention is given to topics such as the assessment of infertile couples; assisted reproductive techniques (ARTs) including ovulation induction, intra uterine insemination (IUI), in vitro fertilization (IVF) and intracytoplasmic sperm injection (clinical and laboratory aspects); reproductive genetics; and obstetric and perinatal outcomes.

Complications and Outcomes of Assisted Reproduction - Botros Rizk - 2017-03-16
Approximately five million children have been born worldwide as a result of assisted reproductive technology (ART). These techniques are now practised independently in most of the world’s nations. Although the vast majority of ART parents and children are healthy following the procedures involved, there is an imperative to maintain a high standard of practice and monitor outcomes carefully. Interpretation of outcome data is difficult for a variety of reasons. As ART technologies evolve and new variants are established, the need for robust assessment of outcomes increases. This book gives a thorough review of potential complications of ART, with detailed analysis of outcome data for the various conditions described. A worldwide perspective is given throughout, with an international team of chapter authors.

The new edition of this text admirably fills the need for a primer on the central topics involved in Human In Vitro Fertilization (IVF). Supplying a comprehensive and hands-on approach to IVF, this source presents established state-of-the-art procedures and techniques, as well as the most current research in the field. Expert contributors also discuss the history of IVF and the potential of future research. Offering essential information for reproductive endocrinologists, IVF practitioners and embryologists, this book guides readers through every step of human assisted conception, from patient pre-treatment to monitoring of outcomes.

Assisted Reproductive Technology Success Rates - 1998

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