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Within twenty, maybe forty, years most people in developed countries will stop having sex for the purpose of reproduction. Instead, prospective parents will be told as much as they wish to know about the genetic makeup of dozens of embryos, and they will pick one or two for implantation, gestation, and birth. And it will be safe, lawful, and free. In this work of prophetic scholarship, Henry T. Greely explains the revolutionary biological technologies that make this future a seeming inevitability and sets out the deep ethical and legal challenges humanity faces as a result. “Readers looking for a more in-depth analysis of human genome modifications and reproductive technologies and their legal and ethical implications should strongly consider picking up Greely’s The End of Sex and the Future of Human Reproduction...[It has] the potential to empower readers to make informed decisions about the implementation of advancements in genetics technologies.” —Dov Greenbaum, Science “[Greely] provides an extraordinarily sophisticated analysis of the practical, political, legal, and ethical implications of the new world of human reproduction. His book is a model of highly informed, rigorous, thought-provoking speculation about an immensely important topic.” —Glenn C. Altschuler, Psychology Today

**Human Reproduction**-Heide Schatten 2017-03-06 The proposed book on progress in human reproduction will focus on recent developments and new approaches to study egg and sperm cells and embryo development and it will address the increasing demand for in vitro fertilization (IVF) and assisted reproductive technologies (ART) to overcome infertility problems that are encountered by an increasing number of couples worldwide. It will include 30-40 chapters written by experts in their specific fields to provide information on in vitro sperm and egg preparations; in vitro oocyte maturation; in vitro fertilization; in vivo and in vitro development of spermatozoa and oocytes;
assessment of sperm and oocyte quality; cell and molecular biology of sperm and egg cells; cryopreservation of sperm, eggs, embryos, and reproductive tissue; Assisted Reproductive Technologies (ART) including intracytoplasmic sperm injection (ICSI); pre-implantation development; post-implantation development; genetic and epigenetic considerations; production of embryonic stem cells for patient-specific therapies; microinjection of specific factors for molecular therapies; and others.

Science and Babies-Institute of Medicine 1990-02-01 By all indicators, the reproductive health of Americans has been deteriorating since 1980. Our nation is troubled by rates of teen pregnancies and newborn deaths that are worse than almost all others in the Western world. Science and Babies is a straightforward presentation of the major reproductive issues we face that suggests answers for the public. The book discusses how the clash of opinions on sex and family planning prevents us from making a national commitment to reproductive health; why people in the United States have fewer contraceptive choices than those in many other countries; what we need to do to improve social and medical services for teens and people living in poverty; how couples should "shop" for a fertility service and make consumer-wise decisions; and what we can expect in the future—featuring interesting accounts of potential scientific advances.

Principles and Practice of Assisted Human Reproduction-Robert Geoffrey Edwards 1995 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 infertile 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.

Reproductomics-José A. Horcajadas 2018-07-23 Recent advances in genomic and omics analysis have triggered a revolution affecting nearly every field of medicine, including reproductive medicine, obstetrics, gynecology, andrology, and infertility treatment. Reproductomics: The -Omics Revolution and Its Impact on Human Reproductive Medicine demonstrates how various omics technologies are already aiding fertility specialists and clinicians in characterizing patients, counseling couples towards pregnancy success, informing embryo selection, and supporting many other positive outcomes. A diverse range of chapters from international experts examine the complex relationship between genomics, transcriptomics, proteomics, and metabolomics and their role in human reproduction, identifying molecular factors of clinical significance. With this book Editors Jaime Gosálvez and José A. Horcajadas have provided researchers and clinicians with a strong foundation for a new era of personalized reproductive medicine. Thoroughly discusses how genomics and other omics approaches aid clinicians in various areas of reproductive medicine Identifies specific genomic and molecular factors of translational value in treating infertility and analyzing patient data Features chapter contributions by leading international experts.

Assisted Human Reproduction-Dani Singer 2006-02-22 With contributions from: Eric Blyth, Ken Daniels, Julia Feast, Robert Lee, Nina Martin, Alexina McWhinnie, Derek Morgan, Clare Murray, Sharon Pettle, Claire Potter, Jim Richards and Francoise Shenfield The separation of procreation from conception has broadened notions of parenthood and created novel dilemmas. A woman may carry a foetus derived from gametes neither or only one of which came from her or her partner; or she may carry a foetus created using in vitro fertilisation (IVF) with the purpose of handing it to two other parents one, neither or both of whom may be genetically related to the prospective child. Parents may consist of single-sex couples, only one of them genetically related to the child; the
prospective mother may be past her menopause; and genetic parenthood after death is now achievable. In a world increasingly reliant on medical science, how can the argument that equates traditional with natural and novel with unnatural/unethical be justified? Should there be legislation, which is notoriously slow to change, in a field driven by dazzling new possibilities at ever faster rate; particularly when restrictions differ from country to country, so that those who can afford it travel elsewhere for their treatment of choice? Whose rights are paramount - the adults hoping to build a family or the prospective child(ren)s future well being? On what basis can apparently competing rights be regulated or adjudicated and how and to what extent can these be enforced in practice?

**Human Reproduction**-Christine Overall 1993
Who owns frozen human embryos? Are surrogate motherhood arrangements dangerous for women? Should access to in vitro fertilization be limited or increased? With the development of complex reproductive technologies and the ensuing controversies in reproductive ethics, there is an urgent need for more careful examination of moral principles, current practices, and social policies pertaining to reproduction. The issues examined in this collection of nine papers focusing of the Canadian experience include abortion, the cryopreservation of embryos, the selective termination of fetuses within multiple pregnancies, social policy for gestational surrogacy, and the regulation of in vitro fertilization. Adopting a feminist perspective, the book places reproductive autonomy at the center of debates about the control of reproduction.

**Clinical In Vitro Fertilization**-C. Wood 2012-12-06 Man is entering a new era as a result of advances in human reproduction. Techniques have been developed to assist in the creation of man-artificial insemination and, now, in vitro fertilization (IVF). Soon, other new methods, based upon current advances of the IVF procedure, will develop to improve the quality of human reproduction. The book describes the conceptual framework and details of technique concerned with in vitro fertilization and embryo transfer (ET). Edwards and Steptoe first described the technique of IVF and ET and the subsequent births of two normal babies. Since then, the success rate of the system has been improved by the use of fertility drugs to provide more oocytes and preincubation to mature the oocyte before fertilization. As a result of the continued research from Melbourne and Cambridge, more than 100 babies have been born. A free interchange of information between the Cambridge and Melbourne groups has led to a predictable success rate of 15%-20% per laparoscopy, and infertility centres all over the world are now copying the techniques. It is an appropriate time to inform doctors and scientists to help them understand the various procedures involved in IVF and ET. While many advances will occur in the future, the establishment of high success rates in several of the critical steps in the procedure-oocyte pick-up rate (90%), fertilization (>90%) and early embryo development (70%-90%) -signifies that some of the new techniques are stabilized sufficiently to warrant transmission of information by text, rather than scientific journal.

**Ethics and Human Reproduction**-Christine Overall 2012-10-11 In Ethics and Human Reproduction, Christine Overall blends feminist theory and philosophical expertise to provide a coherent analysis of a range of moral questions and social policy issues pertaining to human reproduction and the new reproductive technologies. Topics covered include: sex preselection, artificial insemination, prenatal diagnosis, abortion, in vitro fertilisation and embryo transfer, surrogate motherhood, and childbirth. Throughout the book, the author examines the values and assumptions underlying common perceptions of sexuality and fertility, the status of the foetus, the value of children, the nature of parenting, and the roles of women. In so doing, she develops a feminist approach to answering questions about reproductive rights and freedoms, the value of a genetic link between mother and their offspring, the commodification of reproduction, and the effects of reproductive technologies on women and children. This book should be essential reading for anyone interested in the new reproductive technologies, biomedical ethics, and women's health.

**Animal Models and Human Reproduction**-Heide Schatten 2017-01-12 Our knowledge of reproductive biology has increased enormously in recent years on cellular, molecular, and genetic levels, leading to significant
breakthroughs that have directly benefitted in vitro fertilization (IVF) and other assisted reproductive technologies (ART) in humans and animal systems. Animal Models and Human Reproduction presents a comprehensive reference that reflects the latest scientific research being done in human reproductive biology utilizing domestic animal models. Chapters on canine, equine, cow, pig, frog, and mouse models of reproduction reflect frontier research in placental biology, ovarian function and fertility, non-coding RNAs in gametogenesis, oocyte and embryo metabolism, fertilization, cryopreservation, signal transduction pathways, chromatin dynamics, epigenetics, reproductive aging, and inflammation. Chapters on non-human primate models also highlight recent advancements into such issues as human in vitro fertilization (IVF) and assisted reproductive technologies (ART). This book offers animal scientists, reproductive biology scientists, clinicians and practitioners, invaluable insights into a wide range of issues at the forefront of human reproductive health.

Human Reproduction and IVF-H. J. Leese 1988-11-11 Combining the basic physiological facts of human reproduction with a concise account of the techniques used for in vitro fertilization (IVF), this short text makes an important addition to material currently available for sixth form and introductory courses in higher education. Following the central theme of the Dimensions of Science Series, in which modern discoveries are placed in a social context, this book uses the topic of IVF to illustrate not only the scientific and clinical aspects of human infertility, but the way science develops and generates ethical issues of concern to all.

Ethics and Human Reproduction (RLE Feminist Theory)-Christine Overall 2013-05-20 In Ethics and Human Reproduction, Christine Overall blends feminist theory and philosophical expertise to provide a coherent analysis of a range of moral questions and social policy issues pertaining to human reproduction and the new reproductive technologies. Topics covered include: sex preselection, artificial insemination, prenatal diagnosis, abortion, in vitro fertilisation and embryo transfer, surrogate motherhood, and childbirth. Throughout the book, the author examines the values and assumptions underlying common perceptions of sexuality and fertility, the status of the foetus, the value of children, the nature of parenting, and the roles of women. In so doing, she develops a feminist approach to answering questions about reproductive rights and freedoms, the value of a genetic link between mother and their offspring, the commodification of reproduction, and the effects of reproductive technologies on women and children. This book should be essential reading for anyone interested in the new reproductive technologies, biomedical ethics, and women's health.

Embryology-Bin Wu 2019-08-28 Recently developed new embryology theory may greatly improve the success of assisted reproductive technology (ART) in the treatment of human infertility and animal well-being. This book updates and reviews newly developed theories and technologies in human in vitro fertilization and focuses mainly on discussing its clinical practice. Areas covered include ovarian stimulation medicine and final ART outcomes, involving oocyte in vitro maturation, oocyte fertilization and failure treatment, blastocyst formation and implantation, as well as regulation of neuroendocrine embryo implantation. Thus, this book will add new knowledge for readers to improve their appreciation of ART.

Manual of Embryo Culture in Human Assisted Reproduction-Kersti Lundin 2021-04-30 Whilst assisted reproduction techniques (ART) have become increasingly successful and largely standardized, there is still only a partial understanding of what constitutes a ‘true’ embryo environment. Replicating the varying 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.

**IVF and Assisted Reproduction**
Sarah Ferber
2020-12-17
This is the first transnational history of IVF and assisted reproduction. It is a key text for scholars and students in social science, history, science and technology studies (STS), cultural studies, and gender and sexuality studies, and a resource for journalists, policymakers, and anyone interested in assisted reproduction. IVF was seen as revolutionary in 1978 when the first two IVF babies were born, in the UK and India. Assisted reproduction has now contributed to the birth of around ten million people. The book traces the work of IVF teams as they developed new techniques and laid the foundations of a multi-billion-dollar industry. It analyses the changing definitions and experience of infertility, the markets for eggs and children through surrogacy, cross-border reproductive treatment, and the impact of regulation. Using interviews with leading IVF figures, archives, media reports, and the latest science, it is a vital addition to the field of reproduction studies. ‘This pathbreaking account of the global forces behind the rapid rise of the fertility industry is the first to offer such a truly comprehensive overview of this hugely important topic.’ —Sarah Franklin, Chair of Sociology, University of Cambridge

‘In this compelling overview of one of the most significant technological and social interventions ever developed, the cultural and scientific imaginaries of assisted reproduction meet the obdurate histories of laboratory experiments, biological materials, and personal quests. It is an indispensable read for anyone interested in IVF and assisted reproduction.’ —Andrea Whittaker, Professor of Anthropology, Monash University

**Assisted Reproductive Technology**
Christopher J. De Jonge
2002-07-11
This text describes the rapid advances that have revolutionized reproductive medicine due to the result of converging and overlapping developments in reproductive biology, molecular biology and genetics.

**Women and Reproductive Technologies**
Annette Burfoot
2021-11-16
A sociological and historical study of the development of reproductive technologies, this book focuses on key technological developments through a biomedicalization lens with special attention to gender. Using in vitro fertilization (IVF) as a hub, it critically examines the main areas of related socio-technical developments: reproductive science, birth control, animal husbandry, genetics and reproductive medicine. Employing a critical framework to illuminate dominant discourses, the book also highlights examples of social resistance, as well as contradictory responses to new reproductive technologies. Over eight chapters, the author examines the social history of reproduction and sexuality, reproductive technologies from old to new and debates surrounding new reproductive technologies and genetic engineering. Women and Reproductive Technologies pays close attention to the interconnections between the business of reproduction (and replication industries), the sociality of reproduction (including reproductive justice) and what are considered the technologies themselves. As such, it constitutes essential reading for students and researchers in the fields of sociology, health studies and gender studies interested in the current state of human reproduction.

**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 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.

**Human Reproduction and in Vitro Fertilisation**
Henry J Leese
1988
Combining the basic physiological facts of human reproduction with a concise account of the techniques used for...
in vitro fertilization (IVF), this short text makes an important addition to material currently available for sixth form and introductory courses in higher education. Following the central theme of the Dimensions of Science Series, in which modern discoveries are placed in a social context, this book uses the topic of IVF to illustrate not only the scientific and clinical aspects of human infertility, but the way science develops and generates ethical issues of concern to all.

**Beyond Baby M** - Dianne M. Bartels 2012-12-06

Arthur L. Caplan

It is commonly said, especially when the subject is assisted reproduction, that medical technology has outstripped our morality. Yet, as the essays in this volume make clear, that is not an accurate assessment of the situation. Medical technology has not overwhelmed our moral ity. It would be more accurate to say that our society has not yet achieved consensus about the complex ethical issues that arise when medicine tries to assist those who seek its services in order to reproduce. Nevertheless, there is no shortage of ethical opinion about what we ought to do with respect to the use of surrogate mothers, in vitro fertil ization, embryo transfer, artificial insemination, or fertility drugs. Nor is it entirely accurate to describe assisted reproduction as technology. The term "technology" carries with it connotations of machines buzzing and technicians scurrying about trying to control a vast array of equipment. Yet, most of the methods used to assist reproduction that are discussed in this volume do not involve exotic technologies or complicated hardware. It is technique, more than technology, that dominates the field of assisted reproduction. Efforts to help the infertile by means of the manipulation of human reproductive materials and organs date back at least to Biblical times. Human beings have engaged in all manner of sexual practices and manipulations in attempts to achieve reproduction when nature has balked at allowing life to begin.

**Genetics in Human Reproduction** - Elisabeth Hildt 2018-08-13

Published in 1999, this book discusses issues related to the current and possible future technological progress in genetic technology linked to in vitro fertilization, specifically preimplantation diagnosis and germline gene therapy, from a scientific and medical as well as from a social, juridical and ethical point of view. The 31 contributions are divided into six sections medical and scientific view, personal interests and moral implications, moral rights and duties, social concepts and moral implications, choices and decision making, and justice in health care and legal regulation.

**Scientific and Medical Aspects of Human Reproductive Cloning** - National Research Council 2002-06-17

Human reproductive cloning is an assisted reproductive technology that would be carried out with the goal of creating a newborn genetically identical to another human being. It is currently the subject of much debate around the world, involving a variety of ethical, religious, societal, scientific, and medical issues. Scientific and Medical Aspects of Human Reproductive Cloning considers the scientific and medical sides of this issue, plus ethical issues that pertain to human-subjects research. Based on experience with reproductive cloning in animals, the report concludes that human reproductive cloning would be dangerous for the woman, fetus, and newborn, and is likely to fail. The study panel did not address the issue of whether human reproductive cloning, even if it were found to be medically safe, would be acceptable to individuals or society.


ISSUES IN BIOMEDICAL ETHICS

General Editors: John Harris, University of Manchester; Soren Holm, University of Copenhagen. Consulting Editor: Ranaan Gillon, Director, Imperial College Health Service, London. North American Consulting Editor: Bonnie Steinbock, Professor of Philosophy, SUNY, Albany. The late twentieth century has witnessed dramatic technological developments in biomedical science and the delivery of health care, and these developments have brought with them important social changes. All too often ethical analysis has lagged behind these changes. The purpose of this series is to provide lively, up-to-date, and authoritative studies for the increasingly large and diverse readership concerned with issues in biomedical ethics—not just healthcare trainees and professionals, but also social scientists, philosophers, lawyers, social workers, and legislators. The series will feature both single-author and multi-author books, short and accessible enough to be widely
read, each of them focused on an issue of outstanding current importance and interest. Philosophers, doctors, and lawyers from several countries already feature among the authors lined up for the series. It promises to become the leading channel for the best original work in this burgeoning field. This volume: The Future of Human Reproduction brings together new work, by an international group of contributors from various fields and perspectives, on ethical, social, and legal issues raised by recent advances in reproductive technology. These advances have put us in a position to choose what kinds of children and parents there should be; the aim of the essays is to illuminate how we should deal with these possibilities for choice. Topics discussed include gender and race selection, genetic engineering, fertility treatment, ovarian tissue transfer, and post-menopausal pregnancy.

The central focus of the volume is the interface between reproductive choice and public regulation. The Future of Human Reproduction is a roadmap for twenty-first century reproductive technologies written by leading thinkers in the field for philosophers, policy makers, and clinicians. However, it will perhaps be equally useful for parents and other members of our most important social institutions, as we struggle to cope with the rapidly changing reproductive horizon. Glenn McGee, University of Pennsylvania Center for Bioethics

**Nutrition, Fertility, and Human Reproductive Function** - Kelton Tremellen
2015-02-24 One in six couples around the world experience infertility. Before undertaking expensive and intrusive assisted reproductive treatment such as in vitro fertilization, many seek advice from their physicians or dietitians on what foods and supplements might enhance their fertility. But health practitioners are often ill equipped to provide dietary recommendations in a scientifically based manner. Nutrition, Fertility, and Human Reproductive Function provides a comprehensive guide to clinicians on how they can best advise their patients to optimise fertility and reproductive function through optimal nutrition. Taking a holistic or "whole-of-life" approach, the book reviews the role of nutrition in human fertility and explores its effect on male and female reproductive physiology. Problem-orientated topics are arranged in chapters that each cover a specific clinical topic of interest, allowing easy reference by the practicing clinician. From the female perspective, the book covers the role of nutrition on essential reproductive processes such as ovulation, early embryo development, implantation, and sexual function, together with nutrition’s influence on the duration of the reproductive life span. In the male context, it examines the effect of nutrition on hormone and sperm production as well as sexual function. The book also includes information on evidence-based complementary health approaches such as Traditional Chinese Medicine (TCM) and naturopathy. This book draws on the wide experience of several respected leaders in clinical nutrition who combine research expertise with clinical insight. The information contained herein will enable clinicians to make the best recommendations for their patients for optimising fertility.

**Infertility Around the Globe** - Professor Marcia Inhorn 2002-05-30 These essays examine the global impact of infertility as a major reproductive health issue, one that has profoundly affected the lives of countless women and men. The contributors address a range of topics including how the deeply gendered nature of infertility sets the blame on women's shoulders.

**CRISPR People** - Henry T. Greely 2021-02-16 What does the birth of babies whose embryos had gone through genome editing mean--for science and for all of us? In November 2018, the world was shocked to learn that two babies had been born in China with DNA edited while they were embryos--as dramatic a development in genetics as the cloning of Dolly the sheep was in 1996. In this book, Hank Greely, a leading authority on law and genetics, tells the fascinating story of this human experiment and its consequences. Greely explains what Chinese scientist He Jiankui did, how he did it, and how the public and other scientists learned about and reacted to this unprecedented genetic intervention.

**Regulating Assisted Reproductive Technologies** - Amel Alghrani 2018-11-22 Examines emerging assisted reproductive technologies that will revolutionise the future of human reproduction and their regulation.

**The End of Sex and the Future of Human...**
Within 40 years many people will stop having sex for reproduction. After IVF and preimplantation genetic diagnosis, parents will pick embryos for implantation, gestation, and birth. It will be easy, safe, lawful, and free, Henry Greely predicts. He explains the new technologies and sets out the deep ethical and legal challenges facing humanity.

Beyond Conception - 1989-05-15

Assisted Conception: Research, Ethics and Law - Jennifer Gunning 2017-11-01
This title was first published in 2003. Assisted conception is an area where it often seems that all the ethical and legal issues have been covered and then technology advances and the discussions start all over again. The book is an anthology of papers presented during a project looking at therapeutic research in assisted conception (TRAC). It is divided into three areas addressing research, ethics and law. Each chapter begins with an overview of the issues, with the aim being to present new perspectives rather than covering old ground. The European Convention on Human rights and Biomedicine came into force on December 1, 1999. The Convention allows therapeutic research and research on spare embryos but forbid fundamental research, which may be essential to the safe development of new techniques. This also means that people may become part of an experimental process without their consent. The project brings together clinicians, embryologists, lawyers and ethicists to ascertain whether there might be a risk of infertility patients being exposed to insufficiently tested procedures and to see if there is a need for fundamental research in this area. It also looks at the legislative safeguards that exist and whether a European standard for treatment should be set.

Assisted Reproductive Technologies in the Global South and North - Virginie Rozée 2016-07-15
Assisted Reproductive Technologies in the Global South and North critically analyses the political and social frameworks of Assisted Reproductive Technology (ART), and its impact in different countries. In the context of a worldwide social pressure to conceive – particularly for women – this collection explores the effect of the development of ARTs, growing globalisation and reproductive medicalization on global societies. Providing an overview of the issues surrounding ART both in the Global South and North, this book analyses ART inequalities, commonalities and specificities in various countries, regions and on the transnational scene. From a multidisciplinary perspective and drawing on multisite studies, it highlights some new issues relating to ART (e.g. egg freezing, surrogacy) and discusses some older issues regarding infertility and its medical treatment (e.g. in vitro fertilisation, childless stigmatisation and access to treatment). This book aims to redress the balance between what is known about Assisted Reproductive Technologies in the Global North, and how the issue is investigated in the Global South. It aims to draw out the global similarities in the challenges that ARTs bring between these different areas of the world. It will appeal to scholars and students in the social sciences, medicine, public health, health policy, women’s and gender studies, and demography.

In Vitro Maturation of Human Oocytes - Seang Lin Tan 2019
The use of IVM in assisted reproductive technology continues to increase around the world. The major benefit of IVM is that significant numbers of oocytes can be collected from ovaries without recourse to ovarian stimulation. This reduces the costs, time, and risks associated with conventional IVF. Although initially limited to women with polycystic ovary syndrome who were at higher risk of problems following ovarian stimulation, IVM is increasingly used in women with normal ovulatory menstrual cycles. This authoritative text covers the current scientific knowledge of oocyte development and the understanding behind the techniques involved in the clinical application of IVM in assisted reproductive technologies. Short Contents

Transnationalising Reproduction - Roisin Ryan Flood 2018-06-28
Third party conception is a growing phenomenon and provokes a burgeoning range of ethical, legal and social questions. What are the rights of donors, recipients and donor conceived children? How are these reproductive technologies regulated? How is kinship understood within these new family forms? Written by specialists from three different continents, Transnationalising Reproduction examines a broad range of issues concerning kinship and identity, citizenship and regulation,
and global markets of reproductive labour; including gamete donation and gestational surrogacy. Indeed, this book seeks to highlight how reproductive technologies not only makes possible new forms of kinship and family formations, but also how these give rise to new, ethical, political and legal dilemmas about parenthood as well as new modes of discrimination and a re-distribution of medical risks. It also thoroughly investigates the ways in which a commodification of reproductive tissue and labour affects the practices, representations and gendered self-understandings of gamete donors, fertility patients and intended parents in different parts of the world. With a broad geographical scope, Transnationalising Reproduction offers new empirical and theoretical perspectives on third-party conception and demonstrates the need for more transnational approaches to third-party reproduction. This volume will appeal to postgraduate students and postdoctoral researchers interested in fields such as Gender Studies, Health Care Sciences, Reproductive Technology and Medical Sociology.

Kin, Gene, Community - Daphna Birenbaum-Carmeli 2010-07-30 Israel is the only country in the world that offers free fertility treatments to nearly any woman who requires medical assistance. It also has the world’s highest per capita usage of in-vitro fertilization. Examining state policies and the application of reproductive technologies among Jewish Israelis, this volume explores the role of tradition and politics in the construction of families within local Jewish populations. The contributors - anthropologists, bioethicists, jurists, physicians and biologists - highlight the complexities surrounding these treatments and show how biological relatedness is being construed as a technology of power; how genetics is woven into the production of identities; how reproductive technologies enhance the policing of boundaries. Donor insemination, IVF and surrogacy, as well as abortion, pre-implantation genetic diagnosis and human embryonic stem cell research, are explored within local and global contexts to convey an informed perspective on the wider Jewish Israeli environment.

Advances in Embryo Transfer - Bin Wu 2012-03-14 Embryo transfer has become one of the prominent high businesses worldwide. This book updates and reviews some new developed theories and technologies in the human embryo transfer and mainly focus on discussing some encountered problems during embryo transfer, which gives some examples how to improve pregnancy rate by innovated techniques so that readers, especially embryologists and physicians for human IVF programs, may acquire some new and usable information as well as some key practice techniques. Major contents include the optimal stimulation scheme for ovaries, advance in insemination technology, improved embryo transfer technology and endometrial receptivity and embryo implantation mechanism. Thus, this book will greatly add new information for readers to improve human embryo transfer pregnancy rate.

Contemporary Bioethics - Mohammed Ali Al-Bar 2015-05-27 This book discusses the common principles of morality and ethics derived from divinely endowed intuitive reason through the creation of al-fitr’ a (nature) and human intellect (al-‘aql). Biomedical topics are presented and ethical issues related to topics such as genetic testing, assisted reproduction and organ transplantation are discussed. Whereas these natural sources are God’s special gifts to human beings, God’s revelation as given to the prophets is the supernatural source of divine guidance through which human communities have been guided at all times through history. The second part of the book concentrates on the objectives of Islamic religious practice - the maqa’sid - which include: Preservation of Faith, Preservation of Life, Preservation of Mind (intellect and reason), Preservation of Progeny (al-nasl) and Preservation of Property. Lastly, the third part of the book discusses selected topical issues, including abortion, assisted reproduction devices, genetics, organ transplantation, brain death and end-of-life aspects. For each topic, the current medical evidence is followed by a detailed discussion of the ethical issues involved.

Count Down - Shanna H. Swan 2021-02-23 In the tradition of Silent Spring and The Sixth Extinction, an urgent, meticulously researched, and groundbreaking book about the ways in which chemicals in the modern environment are changing—and endangering—human sexuality and fertility on the grandest scale, from renowned epidemiologist Shanna Swan. In 2017, author Shanna Swan and her team of researchers
completed a major study. They found that over the past four decades, sperm levels among men in Western countries have dropped by more than 50 percent. They came to this conclusion after examining 185 studies involving close to 45,000 healthy men. The result sent shockwaves around the globe—but the story didn’t end there. It turns out our sexual development is changing in broader ways, for both men and women and even other species, and that the modern world is on pace to become an infertile one. How and why could this happen? What is hijacking our fertility and our health? Count Down unpacks these questions, revealing what Swan and other researchers have learned about how both lifestyle and chemical exposures are affecting our fertility, sexual development—potentially including the increase in gender fluidity—and general health as a species. Engagingly explaining the science and repercussions of these worldwide threats and providing simple and practical guidelines for effectively avoiding chemical goods (from water bottles to shaving cream) both as individuals and societies, Count Down is at once an urgent wake-up call, an illuminating read, and a vital tool for the protection of our future.

**New Reproductive Assemblages**
Edyta Magdalena Just 2008

**Reproductive Technologies as Global Form**
Stefan Beck 2012-07 In the thirty-five years since the first test-tube baby, in-vitro fertilization and other methods of reproductive assistance have become a common aspect of family life and medicine in affluent nations and, increasingly, throughout the world. How do persons seeking treatment, donors, and medical experts make use of these reproductive technologies? How in crossing borders between nations do they manage to evade legal and bioethical regulations? And how do they make sense of these new modes of making kinship against the backdrop of diverse world-views and social settings? --