



Reproductive Tissue Banking: Scientific Principles

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Reproductive Tissue Banking: Scientific Principles From Academic Press

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 insight into research directions and ethical considerations crucial to the advancement of tissue banking.

With its emphasis on human applications and concerns, this book provides a valuable supplement to short courses on tissue preservation and tissue engineering. Researchers in reproductive medicine, animal and veterinary science, and cryobiology will find this book, with its extensive bibliography, a very handy reference.

*

- * Written by leading international researchers
- * Provides insightful discussions on reproductive tissue banking
- * Presents comprehensive citations to relevant literature, both current and historic
- * Discusses in vitro preservation of spermatozoa, oocytes, embryos, and gonadal tissues of mammals
- * Contains coverage of ethical considerations from a discussion of the splitting of embryos to an exploration of the protection of biodiversity

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Editorial Review

Review

"This book is a perfect source for those, like myself, who are joining the field of reproductive tissue banking with a background in a related area...My overall opinion of the book is high. I would recommend it to anyone entering the field and for new students in an area utilizing cryobiology or reproductive tissues."

--TRENDS IN ENDOCRINOLOGY AND METABOLISM

"...this book is a well-researched text of past and present cryobiology issues in reproduction. The authors effectively review the topic of cryobiology with an updated twist--the role that the biophysical and biochemical parameters play in freezing and thawing. There is little doubt that in the new millenium this text will be a benchmark for future books on cryopreservation."

--FERTILITY AND STERILITY

From the Back Cover

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Michelle Fulk:

This Reproductive Tissue Banking: Scientific Principles book is not really ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book will be information inside this e-book incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. This particular Reproductive Tissue Banking: Scientific Principles without we know teach the one who studying it become critical in pondering and analyzing. Don't become worry Reproductive Tissue Banking: Scientific Principles can bring when you are and not make your handbag space or bookshelves' turn into full because you can have it with your lovely laptop even phone. This Reproductive Tissue Banking: Scientific Principles having good arrangement in word and also layout, so you will not really feel uninterested in reading.

Maritza Kress:

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