

Advances in BIOPRESERVATION

Edited by
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Moving rapidly from science fiction to science fact, cryopreservation is an integral part of many research, development, and production processes in industry and academia. The preservation sciences have emerged as an interdisciplinary platform that incorporates the fundamentals of bioengineering and cell and molecular biology, with the classic methodological approaches to freezing and drying living matter. Researchers and biotech companies must scramble to learn about and adopt the new preservation strategies that incorporate the classic and the new molecular-based approaches.

The first reference of its kind, ***Advances in Biopreservation*** addresses the breadth of the field of biopreservation. Written by recognized international leaders in biopreservation, the book expertly integrates recent molecular-based discoveries with classically based biopreservation basics, offering a new look at advances in the emerging regenerative medicine arena. In addition to general concepts of biopreservation, it includes chapters detailing subspecialty principles, such as biologically active macromolecules, stem cells, and gene therapy, as well as new protocols for cell, tissue, and organ preservation.

The classically based approaches to biopreservation are now recognized as bottlenecks to advances in the emerging regenerative medicine arena. Recent discoveries have changed the basic foundations upon which the preservation sciences were built. Integrating the concepts of first-generation cryopreservation with the new paradigm, this book is a fundamental reference to the latest advances in the field.



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