

Series Editor: John M. Walker

CRYOPRESERVATION AND FREEZE-DRYING PROTOCOLS

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Cryopreservation and Freeze-Drying Protocols provides detailed protocols for all the latest methodologies used to ensure the long-term biostorage of a diverse range of biological materials.

Developed in expert laboratories, the protocols have been painstakingly perfected over the years to provide time-tested, step-by-step instructions that ensure robust and reproducible results. Each protocol deals with the preservation of an organelle, cell, or tissue type, and is accessible even to the nonspecialist because of its cookbook approach. Novel protocols also can be readily developed with the help of the "hands-on" Notes sections.

Cryopreservation and Freeze-Drying Protocols is an indispensable reference work for both the individual researcher and all those who want to establish or improve biostorage systems in their laboratories. Its applications range from microbial culture collections, botanical gardens, and zoos to animal husbandry, aquaculture, medicine, human fertilization, and cell and molecular biology.

Features:

- Preculture Techniques
- Addition of Cryoprotectants
- Cooling and Warming Techniques
- Vitrification
- Storage Techniques
- Postthaw Recovery
- Primary and Secondary Freeze-Drying
- Viability Assessment

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