



## Cryopreservation and freeze-drying protocols /

Day, John G. (1961-)

Stacey, G. (Glyn)

Humana Press, 2007

Fulltext

Internet Resource

Methods (Music)

Monografía

Cryopreservation and Freeze-Drying Protocols: Second Edition is a compilation of robust, reproducible techniques for the conservation of a wide range of biological materials. This widely expanded second edition includes novel approaches and protocols for biological materials that were not preservable when the first edition was published in 1995. This volume begins with a discussion of long term ex situ conservation of biological resources, the role of biological resource centers, and fundamental principles of freeze-drying and cryopreservation. Each chapter focuses on the preservation of specific biological materials, including proteins, microorganisms, cell lines, and multicellular structures. Detailed descriptions of materials required and stepwise protocols are presented for each preservation method, along with explanatory notes that highlight key technical issues. The troubleshooting and background notes provided for each protocol enhance this practical and reliable resource for the conservation and sustainable use of biological resources

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**Contenido:** Long-term ex situ conservation of biological resources and the role of biological resource centers / Glyn N. Stacey and John G. Day -- The principles of freeze-drying / Gerald Adams -- Principles of cryopreservation / David E. Pegg -- Lyophilization of proteins / Paul Matejtschuk -- Vacuum-drying and cryopreservation of prokaryotes / Brian J. Tindall -- Freeze-drying of yeast cultures / Chris Bond -- Cryopreservation of yeast cultures / Chris Bond -- Freeze-drying fungi using a shelf freeze-drier / C. Shu-hui Tan, Cor W. van Ingen, and Joost A. Stalpers -- Cryopreservation and freeze-drying of fungi employing centrifugal and

shelf freeze-drying / Matthew J. Ryan and David Smith -- Cryopreservation of microalgae and cyanobacteria / John G. Day -- Cryopreservaton of plant cell suspensions / Brian W.W. Grout -- Cryopreservation of shoot tips and meristems / Erica E. Benson, Keith Harding, and Jason W. Johnston -- Cryopreservation of desiccation-tolerant seeds / Hugh W. Pritchard -- Cryopreservation of fish sperm / Eugeny Kopeika, Julia Kopeika, and Tiantian Zhang -- Cryopreservation of avian spermatozoa / Graham J. Wishart -- Cryopreservation of animal and human cell lines / Christopher B. Morris -- Cryopreservation of hematopoietic stem/progenitor cells for therapeutic use / Suzanne M. Watt, Eric Austin, and Sue Armitage -- Cryopreservation of human embryonic stem cell lines / Charles J. Hunt and Paula M. Timmons -- Cryopreservation of primary animal cell cultures / Glyn N. Stacey and Stuart Dowall -- Cryopreservation of red blood cells and platelets / Andreas Sputtek -- Cryopreservation of mammalian semen / Mark R. Curry -- Cryopreservation of mammalian oocytes / Sharon J. Paynter and Barry J. Fuller -- Cryopreservation of mammalian embryos / Barry J. Fuller and Sharon J. Paynter

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**Autores:** Day, John G. ( 1961-) Stacey, G. ( Glyn)

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## Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es