



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

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhemF0ei5yZW4vMjgyMjc5NTM>

Título: Cryopreservation and freeze-drying protocols edited by John G. Day, Glyn N. Stacey

Edición: 2nd ed

Editorial: Totowa, N.J. Humana Press 2007

Descripción física: 1 online resource (xi, 347 pages) illustrations

Mención de serie: Methods in molecular biology 368

Bibliografía: Includes bibliographical references and index

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 enbryos / Barry J. Fuller and Sharon J. Paynter

Lengua: English

Copyright/Depósito Legal: 173237688 230742926 642461590 771207604 880109885 964921130 967614778 1005797012 1081179627 1087344511 1148078350 1152978915 1165266502 1166154776 1172370995 1173921683 1179670374 1229762058 1245147394

ISBN: 1588293777 alk. paper) 9781588293770 alk. paper) 9781597453622 eISBN) 1597453625 eISBN) 1280971703 9781280971709 9786610971701 6610971706 9781617375286 1617375284

Materia: Cryopreservation of organs, tissues, etc- Methods Freeze-drying- Methods Cryopreservation- methods Freeze Drying- methods NATURE- Reference. SCIENCE- Life Sciences- General. SCIENCE- Life Sciences- Biology. Cryopreservation- methods. Freeze Drying- methods. Cryopreservation of organs, tissues, etc.- Methods. Cryopreservation of organs, tissues, etc. Freeze-drying.

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

Enlace a formato físico adicional: Print version Cryopreservation and freeze-drying protocols. 2nd ed. Totowa, N. J. : Humana Press, 2007 1588293777 (DLC) 2006015414 (OCoLC)68705631

Punto acceso adicional serie-Título: Methods in molecular biology (Clifton, N.J.) v. 368

Baratz Innovación Documental

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