

1. Record Nr.	UNINA9910789720503321
Titolo	Apoptosis : physiology and pathology // edited by John C. Reed, Sanford-Burnham Medical Research Institute, Douglas R. Green, St. Jude Children's Research Hospital [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-139-12407-2 1-107-21919-1 1-283-29557-1 1-139-12212-6 9786613295576 1-139-11638-X 0-511-97609-7 1-139-12704-7 1-139-11421-2 1-139-11202-3
Descrizione fisica	1 online resource (xiii, 421 pages) : digital, PDF file(s)
Disciplina	611/.01815
Soggetti	Apoptosis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	; . General Principles Of Cell Death: ; 1. Human caspases -- Apoptosis and Inflammation Signaling Proteases / Guy S. Salvesen; ; 2. Inhibitor of Apoptosis Proteins / Jason B. Garrison, Andreas Krieg, Kate Welsh, Yunfei Wen, and John C. Reed; ; 3. Death Domain-Containing Receptors: Decisions Between Suicide and Fire / Henning Walczak and Chahrazade Kantari; ; 4. Mitochondria and Cell Death / Gavin P. McStay and Douglas R. Green; ; 5. The Control of Mitochondrial Apoptosis by the BCL-2 Family / Anthony Letai; ; 6. Endoplasmic Reticulum Stress Response in Cell Death and Cell Survival / Michael Boyce, Marta M. Lipinski, Benedicte F. Py and Junying Yuan; ; 7. Autophagy- The Liaison between the Lysosomal System and Cell Death / Hiroshi Koga and Ana Maria Cuervo; ; 8. Cell Death in Response to Genotoxic Stress and DNA

Damage / Pablo Lopez-Bergami and Ze'ev Ronai; ; 9. Ceramide and Lipid Mediators in Apoptosis / Thomas D. Mullen, Russell W. Jenkins, Lina M. Obeid, and Yusuf A. Hannun; ; 10. Cytotoxic Granules House Potent Proapoptotic Toxins Critical for Antiviral Responses and Immune Homeostasis / Katherine Baran, Ilia Voskoboinik, Nigel J. Waterhouse, Vivien R. Sutton and Joseph A. Trapani -- ; II. Cell Death In Tissues And Organs: ; 11. Cell Death in Nervous System Development and Neurological Disease / Juying Li and Junying Yuan; ; 12. Role of Programmed Cell Death in Neurodegenerative Diseases / Dale E. Bredesen; ; 13. Implications of Nitrosative Stress-Induced Protein Misfolding in Neurodegeneration / Tomohiro Nakamura and Stuart A. Lipton; ; 14. Mitochondrial Mechanisms of Neural Cell Death in Cerebral Ischemia / Lucian Soane, Brian M. Polster, and Gary Fiskum; ; 15. Cell Death in Spinal Cord Injury- An Evolving Taxonomy with Therapeutic Promise / Rajiv R. Ratan and Moses V. Chao; ; 16. Apoptosis and Homeostasis in the Eye / Jerry Y. Niederkorn; ; 17. Cell Death in the Inner Ear / Lisa L. Cunningham and Justin Tan; ; 18. Cell Death in the Olfactory System / Pawel Kermer; ; 19. Contribution of Apoptosis to Physiologic Remodeling of the Endocrine / Nika N. Danial; ; 20. Apoptosis in the Physiology and Diseases of the Respiratory Tract / Christian Taube and Martin Schuler; ; 21. Regulation of Cell Death in the Gastrointestinal Track / Maria Eugenia Guicciardi and Gregory J. Gores; ; 22. Apoptosis in the Kidney / Juan Antonio Moreno, Adrian Mario Ramos, and Alberto Ortiz; ; 23. Physiological and Pathological Cell Death in the Mammary Gland / Armelle Melet and and Roya Khosravi-Far; ; 24. Therapeutic Targeting Apoptosis in Female Reproductive Biology / Kaisa Selesniemi and Jonathan L. Tilly; ; 25. Apoptotic Signaling in Male Germ Cells / Amiya P. Sinha Hikim, Yue Jia, Yan-He Lue, Christina Wang, and Ronald S. Swerdloff; ; 26. Cell Death in the Cardiovascular System / Vladimir Kaplinskiy, Martin R. Bennett, and Richard N. Kitsis; ; 27. Cell Death Regulation in Muscle / Ayesha Saleem, Lawrence Kazak, Michael O'Leary, and David A. Hood; ; 28. Cell Death in the Skin / Saskia Lippens, Esther Hoste, Peter Vandenabeele, and Wim Declercq; ; 29. Apoptosis and Cell Survival in the Immune System / Delphine Merino and Philippe Bouillet; ; 30. Cell Death Regulation in the Hematopoietic System / Paul A. Ney; ; 31. Apoptotic Cell Death in Sepsis / Pavan Brahmamdam, Jared T. Muenzer, Richard S. Hotchkiss, and Jonathan E. McDunn; ; 32. Host-Pathogen Interactions / Maya Saleh -- ; III. Cell Death in Nonmammalian Organisms: ; 33. Programmed Cell Death in the Yeast, *Saccharomyces cerevisiae* / Valter D. Longo and Cristina Mazzoni; ; 34. *Caenorhabditis elegans* and Apoptosis / Brian L. Harry and Ding Xue; ; 35. Apoptotic Cell Death in *Drosophila* / Kathleen Galindo and John M. Abrams; ; 36. Analysis of Cell Death in Zebrafish / Ujwal J. Pyati and A. Thomas Look.

---

### Sommario/riassunto

Apoptosis, or cell death, can be pathological, a sign of disease and damage, or physiological, a process essential for normal health. This book, with contributions from experts in the field, provides a timely compilation of reviews of mechanisms of apoptosis. The book is organized into three convenient sections. The first section explores the different processes of cell death and how they relate to one another. The second section focuses on organ-specific apoptosis-related diseases. The third section explores cell death in non-mammalian organisms, such as plants. This comprehensive text is a must-read for all researchers and scholars interested in apoptosis.

---