1. Record Nr. UNINA9910132230303321

Titolo	Molecular aspects of aging : understanding lung aging / / edited by Mauricio Rojas, Silke Meiners, Claude Jourdan LeSaux
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Blackwell, , 2014 ©2014
ISBN	1-118-39626-X 1-118-39629-4 1-118-39627-8
Descrizione fisica	1 online resource (231 p.)
Disciplina	612.6/7
Soggetti	Aging - Physiology Lungs - Diseases
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	The demography of aging / David E. Bloom and Sinead Shannon -- The "OMICS" of aging : insights from genomes upon stress / Ismene Karakasilioti, Anna Ioannidou, and George A. Garinis -- Protein quality control coming of age / Silke Meiners -- Telomerase function in aging / Rodrigo T. Calado -- The cellular senescence progtam / Pooja Shivshankar and Claude Jourdan Lesaux -- Signaling networks controlling cellular senescence / Leena P. Desar, Yan Y. Sanders, and Victor J. Thannickal -- Immune senescence / Kevin P. High -- Developmental and physiological aging of the lung / Kent E. Pinkerton, Lei Wang, Suzette M. Smiley-Jewell, Jingyi Xu, and Francis H. Y. Green -- Mouse models to explore the aging lung / Mingyi Wang and Deepak A. Deshpande -- Evidence for premature lung aging of the injured neonatal lung as exemplified by bronchopulmonary dysplasia / Anne Hilgenderff -- Remodeling of the extracellular matrix in the aging lung / Jesse Roman -- Aging Mesenchymal Stem Cells in lung disease / Maria G. Kapetanaki, Ana L. Mora, and Mauricio Rojas -- COPD as a disease of premature aging / Laurent Boyer, Jorge Boczkowski, and Serge Adnot -- Lung infections and aging / Jacqueline M. Kehler and Keith C. Meyer.

Sommario/riassunto	Molecular Aspects of Aging: Understanding Lung Aging covers recent research in the mechanisms that contribute to cellular senescence. Covering universal themes in aging, such as the exhaustion of stem cells and subsequent loss of the regenerative refueling of organs as well as immunosenescence, this text illuminates new directions for research not yet explored in the still poorly investigated area of molecular mechanisms of lung aging. The molecular nature of general aging processes is explored with targeted coverage on how to analyze lung aging through experimental approaches.