Record Nr. UNINA9910812874103321 **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 Inglese Lingua di pubblicazione **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references at the end of each chapters and Nota di bibliografia 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

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## 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.