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	disease); Discussion; LMNA mutations in progeroid syndromes; Discussion A genetic approach to study the role of nuclear envelope components in nuclear positioningDiscussion; General discussion I; A lamin- dependent pathway that regulates nuclear organization, cell-cycle progression and germ-cell development; Discussion; Mutations in the mouse Lmna gene causing progeria, muscular dystrophy and cardiomyopathy; Discussion; The nuclear membrane and mechanotransduction: impaired nuclear mechanics and mechanotransduction in lamin A/C-deficient cells; Discussion; Chair's summing-up; Index of contributors; Subject index
Sommario/riassunto	This book draws together contributions from cell and developmental biologists, structural biologists, geneticists and clinical scientists aimed at a better understanding of the cellular and molecular basis of these diseases. Topics include:How nuclear structure and location within a nucleus affect gene expressionChromatin organization and cell differentiationThe nature of the interactions between the nuclear envelope and the cytoskeletonThe extent to which the cytoskeleton mediates communication between the cell membrane and nucleus in regulating gene expression and whether