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Edizione	[Second edition.]
Descrizione fisica	1 online resource (1,011 pages)
Disciplina	572.8719
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Lingua di pubblicazione	Inglese
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Note generali	Includes index.
Sommario/riassunto	"A stunning visual collection of the banded metaphase chromosome karyotypes from some 850 species of mammals, the Atlas of Mammalian Chromosomes represents an unabridged compendium of the state of this genomic art form. Bringing together information currently scattered throughout the cytogenetics literature for scores of published and unpublished species, the atlas features high quality karyotype images for nearly every mammal studied to date, making it the most comprehensive assemblage of high resolution chromosome photographs available, a critically invaluable resource for today's comparative genomics era. For every available species, the atlas presents the best karyotype produced, the common and Latin name of the species, the published citation, and the contributing authors. Nearly all karyotypes are G banded, revealing the chromosomal bar codes of homologous segments among related species. Addressing the mandate of the Human Genome Project to annotate the genomes of other organisms as well, this edition offers a step forward in our understanding of species formation, of genome organization, and of DNA script for natural selection. It is an invaluable resource for geneticists, mammalogists, and biologists interested in comparative

genomics, systematics, and chromosome structure. The book will include karyotypes of 1000 of the 5000 species of mammals. These images provide the starting point for a new dynamic field called "ComparativeGenomics" which is driven by the whole genome sequence discernment of biological species. When the atlas was first published, only three mammals were sequenced (human, mouse and rat). Today nearly 300 non-human mammal species enjoy genome sequence empowerment. This practice has become mainstream rigor, with genome sequencing being planed for nearly all mammal species in the coming decade. Updating the atlas will ignite the starting point for so many of these exciting new research endeavors"--Provided by publisher.
