



Subtelomeres

By Marion M Becker

Springer Jan 2014, 2014. Buch. Book Condition: Neu. 235x155x21 mm. This item is printed on demand - Print on Demand Neuware - New genes and diversity leading to adaptation and evolution are generated in special areas of genomes. One such area in all eukaryotic genomes and in those prokaryotes with linear chromosomes is the region near the ends of the chromosomes. These telomere-associated sequences or subtelomeres, have different properties than the rest of the genome and are one of the most exciting frontiers left in genomics. This book provides a broad introduction to the field of subtelomeres with detailed information from various fields and systems, covering yeasts and fungi, pathogens and parasites, plants, insects, humans and primates and bacteria with linear chromosomes. Advances in the field as well as continuing challenges are discussed throughout. The mosaic nature of this collection and the everchanging perspectives reflect the nature of subtelomeres themselves. Unlike the core of most genomes, which are conserved and stable over time, subtelomeres are dynamic and polymorphic, so much so that generally no two individuals look alike in these regions. The dynamic nature of the region and the ability to change the copy number, generate diversity and try novel...



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