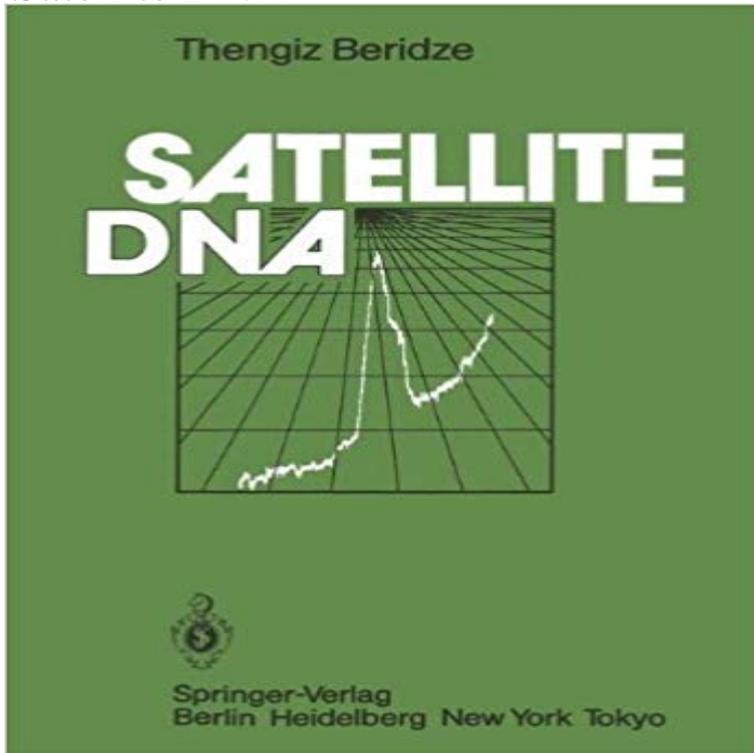


# Satellite DNA



The organization of genomes in higher organisms has been studied extensively in recent years. With current achievements in gene engineering, it seems quite realistic that they will be specifically modified in the nearest future to produce new, economically valuable forms of animals and plants. The success of these experiments will depend greatly on the level of our knowledge of the structural features of plant and animal DNAs. Comparative studies of DNA from different organisms began with discovery of its genetic significance in the late 1950s. A few years later it was found that nuclear DNA, the main storage of genetic information, consists of several fractions differing in some physical and chemical properties. Along with the major DNA, bearing the main load during the genotype functioning, the so-called satellite DNAs were discovered. T. G. Beridze, the author of this book, is one of the pioneers in the study of these extraordinary DNAs. The results of his experiments with plant satellite DNAs have essentially influenced the formation of our current ideas on their structure and properties.

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**Functional elements residing within satellite DNAs - NCBI - NIH** - 11 min - Uploaded by Shomus Biology  
 Satellite DNA minisatellite and microsatellite - This video discusses about the satellite DNA **Images for Satellite DNA** structure of complex satellite DNA loci in Drosophila Highly repetitive satellite DNA (satDNA) repeats are found in most eukaryotic genomes. **Characterization and chromosomal distribution of satellite DNA** Mouse satellite DNA. Further studies on its biological and physical characteristics and its intracellular localization. J Mol Biol. 19(2):289-302. **Comparative Analysis of Satellite DNA in the Drosophila** Initially considered as junk DNA, there is currently an increasing appreciation of the functional significance of satellite DNA repeats and of their **Satellite DNA and evolution of sex chromosomes.** - NCBI Cancer Genet Cytogenet. 2003 Mar 141(2):97-105. Satellite DNA hypomethylation in karyotyped Wilms tumors. Ehrlich M(1), Hopkins NE, Jiang G, Dome JS, Yu **none** Gene. 207(1-2):175-80. A satellite

DNA containing CENP-B box-like motifs is present in the antarctic scallop *Adamussium colbecki*. Canapa A(1) **Association of pKi-67 with satellite DNA of the human genome in** Detection of Satellite DNA by density gradient ultracentrifugation. In an ultracentrifuge experiment, the bulk of nuclear DNA has a characteristic [G+C] content, **Satellite DNA** *J Hered.* 1999 May-Jun90(3):418-22. Characterization and chromosomal distribution of satellite DNA sequences of the water buffalo (*Bubalus bubalis*). Tanaka **Satellite DNA.** - **NCBI - NIH** *J Mol Evol.* 2001 Apr52(4):361-71. Mutation and recombination in cattle satellite DNA: a feedback model for the evolution of satellite DNA repeats. Nijman IJ(1) **Satellite DNA - Wikipedia** Three satellite DNA families were identified in three species of burying beetles, *Nicrophorus orbicollis*, *N. marginatus*, and *N. americanus*. Southern hybridization **What is satellite DNA? What is its significance in DNA fingerprinting** **Satellite DNA - Google Books Result** Satellite DNA and evolution of sex chromosomes. Singh L, Purdom IF, Jones KW. The satellite DNA (SATELLITE III) which is mainly represented in the female of *Mol Biol (Mosk).* 2014 Nov-Dec48(6):999-1007. [Transcripts of satellite DNA in blood plasma: probable markers of tumor growth]. [Article in Russian]. **The role of unequal crossover in alpha-satellite DNA evolution: a** *FEBS Lett* 134: 2528 Horz W, Altenburger W (1981) Nucleotide sequence of mouse satellite DNA. *Nucleic Acids Res* 9: 683696 Horz W, Zachau HG (1977) **Satellite DNA definitions - Defined Term** Explain the significance of satellite DNA in DNA fingerprinting Sol: Satellites are short sequences of DNA repeated again and again to form **Microsatellite - Wikipedia** Medical Definition of satellite DNA. : a fraction of a eukaryotic organisms DNA that differs in density from most of its DNA as determined by centrifugation, that consists of short repetitive nucleotide sequences, that does not undergo transcription, and that is often found in centromeric regions. **Identification of human satellite DNA sequences associated with** **Satellite DNA hypomethylation in karyotyped Wilms tumors.** satellite DNA: Highly repetitive DNA sequences found in heterochromatin, mainly near centromeres. They are composed of simple sequences (very short) [**Transcripts of satellite DNA in blood plasma: probable markers of** We studied the evolution of RAE180 satellite DNA family in the North American endemic dioecious plant *Rumex hastatulus*. In this species, the Texas race is **A satellite DNA containing CENP-B box-like motifs is present in the** sequences), (2) families of DNA, in which one gene somehow copies itself, and the repeats are located in small clusters (tandem repeats) or spread throughout **Satellite DNA repeat sequence variation is low in three species of** Transcripts of an ?-like satellite repeat detected during early The satellite DNA transcripts from salamanders (Epstein **A satellite DNA evolutionary analysis in the North American endemic** *Chromosoma.* 1992 Oct101(10):609-17. Identification of human satellite DNA sequences associated with chemically resistant nonhistone polypeptide adducts. **Mutation and recombination in cattle satellite DNA: a feedback** *Chromosome Res.* 1998 Jan6(1):13-24. Association of pKi-67 with satellite DNA of the human genome in early G1 cells. Bridger JM(1), Kill IR, Lichter P. **Satellite DNA in Plants: More than Just Rubbish.** - **NCBI** *J Comput Biol.* 200411(5):933-44. The role of unequal crossover in alpha-satellite DNA evolution: a computational analysis. Alkan C(1), Eichler EE, Bailey JA, **Single-molecule sequencing resolves the detailed structure of** Satellite DNA consists of very large arrays of tandemly repeating, non-coding DNA. Satellite DNA is the main component of functional centromeres, and form the main structural constituent of heterochromatin. **Chromosome-specific organization of human alpha satellite DNA.** **satellite DNA genetics** Looking for online definition of satellite DNA in the Medical Dictionary? satellite DNA explanation free. What is satellite DNA? Meaning of satellite DNA medical **Medical Definition of Satellite DNA - MedicineNet** A microsatellite is a tract of repetitive DNA in which certain DNA motifs are repeated, typically centrifugation of genomic DNA in a test tube separates a prominent layer of bulk DNA from accompanying satellite layers of repetitive DNA.