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SV40 DNA replication intermediates were pulse-labeled with [methyl-3 H]Tdr, purified, separated by agarose gel electrophoresis, and visualized by gel fluorography 5, 6. Topoisomerase II inhibition is detected as a concentration-

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dependent increase in the catenated SV40 daughter chromosomes 7 , 8 since the final (decatenation) step of SV40 DNA replication is carried out by topoisomerase II.

~~Replication of viral DNA sequences integrated within the ...~~

The appropriate model is not so much the run-away replication of viral DNA in lytically infected cells that depends on a highly specific interaction between an initiator protein, T antigen in the case of SV40, and a circumscribed origin sequence.

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From the Back Cover This volume of the Biotechnology Intelligence Unit series reviews the history of SV40 as a mammalian replicon model and covers the techniques used to analyze viral DNA replication.

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~~Mutational analysis of the simian virus 40 replicon ...~~

The circular genome of simian virus 40 is a model mammalian replicon, containing a unique origin of replication (ori) and coding for a protein (SV40 T antigen) known to be involved in initiation of...

~~SV40 DNA replication: From the A gene to a nanomachine ...~~

The semiautonomous replicon: a molecular model for the oncogenicity of SV40. Martin RG, Chou JY, Avila J, Saral R.

~~Topoisomerase II inhibition by aporphine alkaloids ...~~

To determine when during S phase integrated viral DNA sequences in several tsA SV40-transformed Chinese hamster cell clones replicate, we pulse-labeled cultures with BrdUrd and subsequently collected mitotic cells during sequential time intervals.

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~~Eukaryotic DNA replication: a model for a fixed double ...~~
Therefore, the visible internucleosomal DNA of the SV40 minichromosome does not arise from an unfolding of a fraction of the 190-200 base pairs of DNA initially wound in the nucleosome. These results support the chromatin model which proposes that the same DNA length is contained in the nucleosome and the biochemical unit.

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Electron microscopic analysis of intermediates in replicon duplication, analogous to those performed for the SV40 chromosome, might also shed light on this matter. Theoretical physicists teach us constantly that, when dealing with different models or theories that describe a given phenomenon, the criteria for choosing one from among the others ...

~~The SV40 Replicon Model for Analysis of Anticancer Drugs ...~~

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Abstract: Provides a review of the simian virus 40 (SV40) minichromosome as a model for the mammalian chromosome in studies of DNA replication. This book focuses on disruption of DNA replication by anticancer drugs and DNA-damaging agents. It covers the high-resolution gel electrophoresis methods for the analysis of SV40 DNA replication.

~~The SV40 Replicon Model for Analysis of Anticancer Drugs ...~~

This book provides the most up-to-date review of the simian virus 40 (SV40) minichromosome as a model for the mammalian chromosome in studies of DNA replication. It focuses on disruption of DNA replication by anticancer drugs and DNA-damaging agents.

~~An episomal mammalian replicon: sequence independent ...~~

Although common interest focuses on the replication of cells' own genome, replication of SV40 DNA frequently serves as a

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convenient model of mammalian (human) DNA replication. However, when the cellular replication equipment is abused for viral multiplication, cellular mechanisms are often falsified or put out of function, in particular the regulatory mechanisms involved.

~~The semiautonomous replicon: a molecular model for the ...~~

The circular genome of simian virus 40 is a model mammalian replicon, containing a unique origin of replication (ori) and coding for a protein (SV40 T antigen) known to be involved in initiation of viral DNA replication and to bind in vitro to the origin region.

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Consists of the SV40 promoter (SV nt 270-5171), a HindIII linker, the hph gene (1347 bp), SV40 splice site (SV nt 4710-4100), SV40 polyadenylation site (SV nt 4362-2067), pML (inserted at

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the BamHI site with HindIII-EcoRI-amp upstream of the SV40 promoter).

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~~The SV40 replicon model for analysis of anticancer drugs ...~~

Summary: Provides a review of the simian virus 40 (SV40) minichromosome as a model for the mammalian chromosome in

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studies of DNA replication. This book focuses on disruption of DNA replication by anticancer drugs and DNA-damaging agents. It covers the high-resolution gel electrophoresis methods for the analysis of SV40 DNA replication.

~~Subunit Structure of Simian Virus 40 Minichromosome ...~~

Replicon model More than five decades ago, Jacob , Brenner , and Cuzin proposed the replicon hypothesis to explain the regulation of chromosomal DNA synthesis in E. coli . [24] The model postulates that a diffusible, trans -acting factor, a so-called initiator, interacts with a cis -acting DNA element, the replicator, to promote replication ...

~~Origin of replication — Wikipedia~~

Simian vacuolating virus 40, known as SV40, is a virus found in monkeys and humans, which has the potential to cause cancer, mainly in animals, although research indicates that it doesn't

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cause cancer in humans. Nevertheless, it may be virtually impossible to rule out such connection.

~~The SV40 replicon model for analysis of anticancer drugs ...~~

Like most prokaryotic genomes, the SV40 genome is a circular duplex DNA organized in a single replicon. This small viral genome, its association with host histones in nucleosomes, and its dependence on the host cell milieu for replication factors and precursors led to its adoption as a simple and powerful model.

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