

# Bacterial plasmids

**Van Nostrand Reinhold (UK) - Bacterial plasmids: their extraordinary contribution to molecular genetics**

Description: -

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Zapotec Indians -- Legends.

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Plasmids.

Bacteriology.Bacterial plasmids

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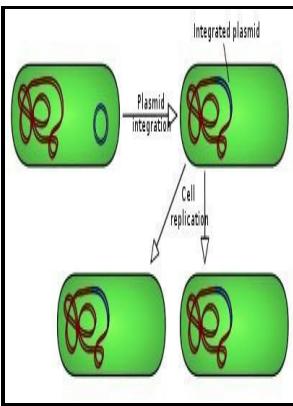
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Aspects of microbiology (Washington, D.C.) -- 4.Bacterial plasmids

Notes: Includes bibliographies and index.

This edition was published in 1986

Tags: #Plasmid



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**Plasmid encoded antibiotic resistance: acquisition and transfer of antibiotic resistance genes in bacteria**

Smaller plasmids make use of the host replicative enzymes to make copies of themselves, while larger plasmids may carry genes specific for the replication of those plasmids. Several foreign genes have been introduced into a variety of hosts to produce transgenic plants.

## What is a Bacterial Plasmid? (with pictures)

Plasmids encoding ZFN could help deliver a therapeutic gene to a specific site so that cell damage, cancer-causing mutations, or an immune response is avoided. A total of 161 paralogous gene families containing 2—41 members have been identified in B. I mean, I get the whole thing about wanting to control the environment and all.

## Plasmids in Bacteria: Properties, Types and Replication

Other bacteriocins produced by bacteria under natural environmental conditions probably function by eliminating competitors. Many of the genes carried by a plasmid are beneficial for the host cells, for example: enabling the host cell to survive in an environment that would otherwise be lethal or restrictive for growth. Cold Spring Harbor, NY: Cold Spring Harbor Laboratory.

## Bacterial plasmids: their extraordinary contribution to molecular genetics

Cases have also been found in which incompatibility is unidirectional. Two different plasmids that belong to the same family cannot co-exist in the same cell.

## Plasmid

In addition to the chromosome, bacteria often contain plasmids — small circular DNA molecules. Most resistance integrons conform to a structure

known as a class 1 integron.

### **Plasmid**

We tend to forget that bacteria have inhabited the planet for approximately three and a half billion years, somewhat longer than mankind, and in that time have had to adapt on innumerable occasions to toxic substances suddenly introduced into their environments. Further, their ability to mobilize, at least in principle, any bacterial DNA sequence means they pose a considerable threat in the future, their activities being limited only by their distributions.

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