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**EMILIO SOSA**

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DNA cloning, a new gene is inserted into a loop of bacterial DNA called a plasmid. As shown in the animation, the plasmid is first cut with a restriction enzyme so that the gene of interest, which is isolated from another organism, can be inserted into the loop. DNA Cloning with Plasmids - HHMI BioInteractive Cloning a gene into a vector such as a plasmid is a method widely used in molecular biology and biochemistry laboratories for the purpose of transferring the gene into another organism. An in silico DNA cloning experiment for the biochemistry ... Minimally, lab-created plasmids have an origin of replication, selection marker, and cloning site. The ease of modifying plasmids and the ability of plasmids to self-replicate within a cell make them attractive tools for the life scientist or

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plasmid from Addgene - reducing the time to experiments by removing the amplification and extraction steps required when one receives plasmids in ...Addgene: DNA Service - Cloning Grade DNADNA technology, laboratory exercises. Cloning a gene into a vector such as a plasmid is a method widely used in molecular biology and biochemis-. try laboratories for the purpose of transferring the gene. into another organism. The organism can then express a. gene-related protein using its own genetic machinery.Laboratory Exercises - IUBMBThe source of the insert for cloning may be genomic DNA, a portion of another plasmid, or a linear DNA fragment. Regardless of the type of source DNA, a common first step in

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enzymatically fragmenting DNA molecules, linking the pooled fragments to autonomously replicating circular bacterial genetic elements known as plasmids, and introducing the resulting recombinant DNA molecules into bacteria (1). DNA cloning: A personal view after 40 years | PNAS Paul Andersen explains the two major portions of the molecular biology lab in AP Biology. He starts by discussing the process of transformation. He explain... AP Biology Lab 6: Molecular Biology - YouTube Scientists working in Boyer's lab recognized the need for a general cloning plasmid, a compact plasmid with unique restriction sites for cloning in foreign DNA and the expression of antibiotic resistance genes for selection of transformed bacteria. In 1977, they

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### **DNA cloning: A personal view after 40 years | PNAS**

DNA technology, laboratory exercises. Cloning a gene into a vector such as a plasmid is a method widely used in molecular biology and biochemistry. Laboratories for the purpose of transferring the gene into another organism. The organism can then express a gene-related protein using its own genetic machinery.

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*DNA Cloning with Plasmids - HHMI BioInteractive*

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