Copy of a printed diagram referenced as "Part of a chain of DNA"

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Publication/Creation

March 1958

Persistent URL

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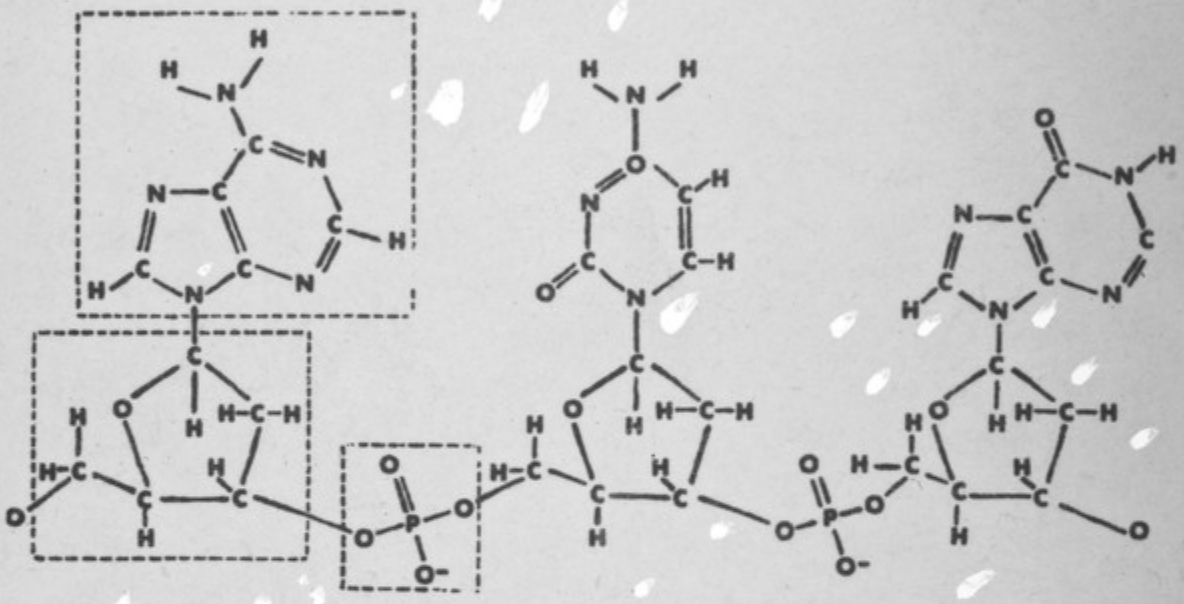
of these is the discovery that the "transforming principles" of bacteria, which can produce an inherited change when added to the cell, appear to consist only of DNA. The second is the fact that during the infection of a bacterium by a bacteriophage the DNA of the phage penetrates into the bacterial cell while most of the protein, perhaps all of it, is left outside.

DNA can be extracted from cells by mild chemical methods,



Fragment of chain of desoxyribonucleic acid shows the three basic units that make up the molecule. Repeated over and over in a long chain, they make it 1,000 times as long as it is thick. The backbone is made up of pentose sugar molecules (marked by the dashed-line square at bottom left), linked by phosphate groups (square at bottom right). The bases (square at top), adenine, cytosine, guanine and thymine (not shown), protrude off each sugar in irregular order.