

## **REAL-WORLD DNA APPLICATIONS**

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### **ABSTRACT**

DNA is the total genetic information of an organism, which is also called “the genetic code book”. DNA was discovered six decades ago. Since, it’s discovery, it has made great progress in its multiple applications in the lifetime of Dr. James Watson, one of the discoverers of DNA. It has various applications ranging from genetic engineering, nano-medicine, personalized medicine, biotechnology, sex determination, pharmacogenetics, drug development and testing, forensics, bioinformatics, anthropology, archeology, ancestry, animal production, immigration to agriculture, and cloning organisms. It expands further in host of other biological and non-biological areas among which some of them are reviewed by this article.

**KEYWORDS:** DNA, Biotechnology, Genetic Engineering, Forensics, Bioinformatics, Nanomedicine, Immigration, Ancestry, Pharmacy, Anthropology, Archeology