

## **Antimicrobial Resistance: A Global Threat to Modern Medicine Practice and the Role of Vaccination**

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### **Abstract**

**Vaccines are one of the major success stories of modern medicine. The development of vaccines progressed at a fairly slow rate until the last decade when new scientific discoveries and technologies led to innovative gene-based vaccines. Gene-based vaccines are a completely new type of vaccine that are faster and cheaper to produce than traditional vaccines. mRNA vaccines use a different approach that takes advantage of processes that are more efficient, cost-effective and safe. On the basis of these remarkable properties, mRNA vaccines quickly moved forward and within ten years were being used in some early clinical trials for infectious diseases and several types of cancer. The COVID-19 outbreak dramatically accelerated mRNA vaccines, moving them from development to authorized use in a record-setting ten months. In this review, we provide an overview of mRNA vaccine development and its application against the COVID-19 pandemic. As the first approved COVID vaccines, mRNA vaccines have been shown to be safe and mRNA technology will have a tremendous impact, not only on the pandemic, but also on the future treatment of many diseases.**

### **Biography:**

Oludotun Oluwamayowa Paul is a fresh scholar and an erudite research enthusiast. He received his first degree in Microbiology from Moshood Abiola Polytechnic, Abeokuta, Ogun State, Nigeria. He has been awarded several certificates of honor and national service from academic and prestigious national bodies

respectively. Over the years, he has contributed to various research papers which have been published under the supervision of Dr. Olabode Olatunbosun Osifeso. He is currently a freelance research analyst and a writer. While his area of research specializes on Microbiological Techniques and Environmental Microbiology, his current area of research interest is Pathological Microbiology..

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