Review of: "A Harmless Avian Vaccine Virus Could Be Developed into an Off-the-Shelf “Antibiotic” for Viruses"

Mariusz Jaremko[1]

1 Independent researcher

Potential competing interests: No potential competing interests to declare.

This study, entitled: "A Harmless Avian Vaccine Virus Could Be Developed into an Off-the-Shelf “Antibiotic” for Viruses," explores the potential of the infectious bursal disease virus (IBDV), an apathogenic double-stranded RNA virus, as a repurposed antiviral agent for combating a range of viral infections. The proposed superinfection therapy (SIT) hinges on the virus’s ability to upregulate type I interferon (IFN) genes, offering a promising pre-adaptive immunity strategy. However, while the findings and proposals are intriguing, the study raises several important considerations regarding feasibility, safety, and long-term application.

A new frontier in cancer therapy: The intersection of cancer vaccines and metabolomics, FA Sukareh, et al., (2024) Metabolomics for Personalized Vaccinology, 143-201 - This book chapter provides an overview of the standard cancer treatment modalities, explores the current advancements in cancer immunotherapy, and delves into various platforms and strategies for optimizing cancer vaccines to improve their efficacy and clinical impact. Authors should directly refer to it to update the content of their manuscript.

Molecules 2020, 25(20), 4597; https://doi.org/10.3390/molecules25204597 - In this review, we highlight the major applications of NMR spectroscopy in medical drug discovery and development. We discuss the foundational concepts, theories, and applications of commonly employed NMR techniques, emphasizing their roles in the drug development pipeline. Furthermore, we evaluate the advantages and limitations of primary NMR methods, providing insights into their impact on the future of drug discovery. That is why authors should refer to the biophysical methods as NMR spectroscopy that are useful in the future vaccine developments.

After the implementation of these changes, the paper should reach its final maturity.