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Nanotechnology is an emerging and innovative discipline representing the frontier of current technology and science. The past decade has seen rapid growth in literature reporting nanotechnology platforms for virus and pathogen diagnosis predating COVID-19.

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Infectious disease agents such as bacteria, viruses, fungi 1 and parasites account for approximately 15 million deaths worldwide, with acute respiratory infections and human immunodeficiency virus (HIV) being the leading causes. 2

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Virus nanotechnology is the use of viruses as a source of nanoparticles for biomedical purposes. Viruses consist of a genome and a capsid; and some viruses are enveloped. Most virus capsids measure between 20-500 nm in diameter. Because of their nanometer

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size dimensions, viruses have been considered as naturally occurring nanoparticles. Virus nanoparticles have been subject to the nanoscience and nanoengineering disciplines. Viruses can be regarded as prefabricated nanoparticles. Many different

Virus nanotechnology - Wikipedia

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Nanotechnology is a common word these days, but many of us don't realize the amazing impact it has on our daily lives. According to the United States National Nanotechnology Initiative, nanotechnology is "science, engineering, and technology conducted at the nanoscale, which is about 1 to 100 nanometers." One nanometer is a

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billionth of a meter, or 10^{-9} of a meter.

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Viruses, like bacteria, can be important beneficial microbes in human health and in agriculture, researchers say, following a review of the current literature on beneficial viruses.

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