



## **Title: Nanoparticles and mRNA Covid-19 efficacy**

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### **Abstract**

The CDC approach to the Covid-19 virus was to quickly develop a vaccine, but even if successful in the near term is impossible to implement for the entire World population, let alone unacceptable because of attendant social unrest and economic collapse. Vaccines traditionally contain fragments of inactivated viruses that require unacceptable development time. The Pfizer/BioNTech and Moderna vaccine approach differ in that inactivated virus fragments are not used, but rather the patient receives an injection of genetic material – mRNA– that encodes the virus protein *thought* to be the antigen necessary to elicit Covid-19 immunity, the process taking place inside the patient's body. Because the mRNA molecule is fragile, cold storage temperatures are required with the mRNA dispersed inside fatty lipid nanoparticles (NPs). Pfizer/BioNTech and Moderna vaccines are reported 94.5% efficacy in protecting against Covid-19 disease.

The high efficacy of the mRNA vaccines is remarkable as influenza vaccines have 50% efficacy. Indeed, Dr. Fauci remarked “I would have settled for a 70% or 75% effective vaccine...90% or 95% would be aspirational...” However, the success of mRNA vaccines may have nothing to do with mRNA, but rather the efficacy is caused by the NPs that deliver the mRNA to the body.

In mid-2020, the Covid-19 NP Treatment was proposed as an alternative to the logistical problems in the World-wide delivery of cold storage mRNA vaccines. Based on the long history of UV inactivating viruses, simple QED theory applied to ~80 nm lipid NPs injected in the patient produce UVC (254 nm) inside the body. The NPs need only inactivate a few of the live virus in the patient that then act as the antigen to elicit Covid-19 immunity. Low NP doses reduce UVC levels to allow correction of DNA damage by repair systems. But if NP doses are too high, DNA repair systems are overwhelmed and neurological symptoms appear. Since Bell's palsy has been reported, Dr. Fauci should look for DNA damage before further celebration as NP doses are likely too high. Perhaps, NPs alone without mRNA are producing the high efficacy?

### **Biography**

Thomas Prevenslik is a retired American living in Berlin. He developed the theory of simple QED for nanoscale heat transfer over a decade ago at the University of Hong Kong. Based on the Planck law that precludes atoms in NPs the heat capacity to conserve heat by an increase in temperature, conservation proceeds by creating non-thermal standing EM radiation within the NP that depending on size is emitted as UV radiation to the surroundings.