

2023 Nobel Prize in Physiology or Medicine

Harry Forsdick and Dick Wagner

March 20, 2024

URL: <https://tinyurl.com/HF-2023NPMed>

Click on **Slideshow** button in the upper right side of display

Background

On October 2, 2023, the winners of the 2023 Nobel Prize in Physiology or Medicine were announced to be **Katalin Karikó PhD and Drew Weissman PhD and MD** of the **University of Pennsylvania Perelman School of Medicine** for their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19.

Katalin Karikó
was brought up in
Szolnok, Hungary



Drew Weissman
was brought up in
Lexington MA

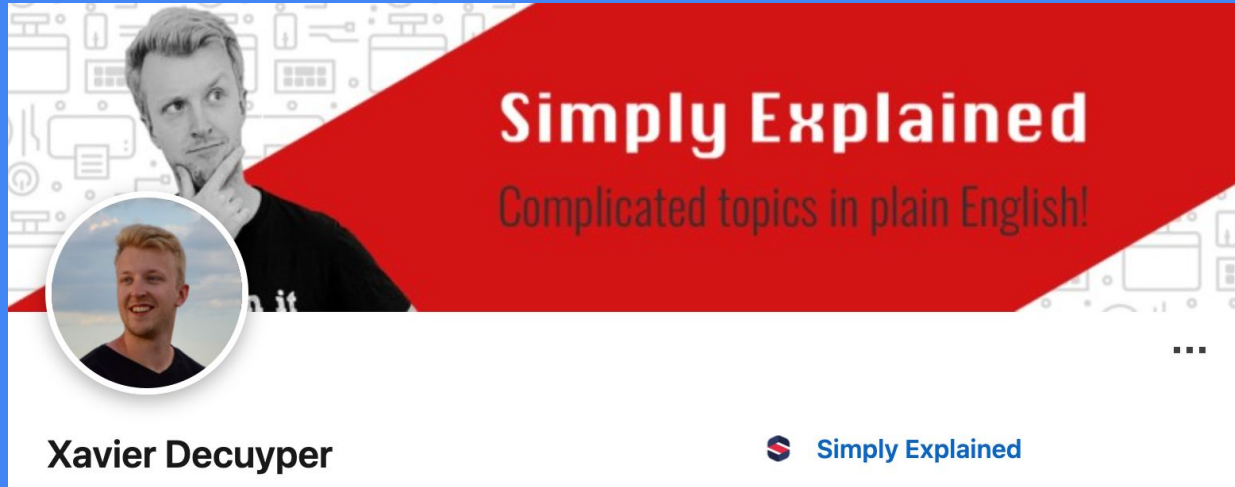
Game Plan for Today

Dick Wagner and I have struggled to figure out how to develop a presentation for our group that could convey what the two UPenn researchers did without overwhelming ourselves.

Although we are all *smart*, we are all smart about *different things*. Few of us know enough to really follow the science at the level Nobel Prize winners work.

But, there are a series of videos we have found that explain the work for which the Nobel Prize was awarded. These are sort of like explaining something to several different age groups such as a child, a teen-ager, an undergrad science student, and a graduate student in Medicine.

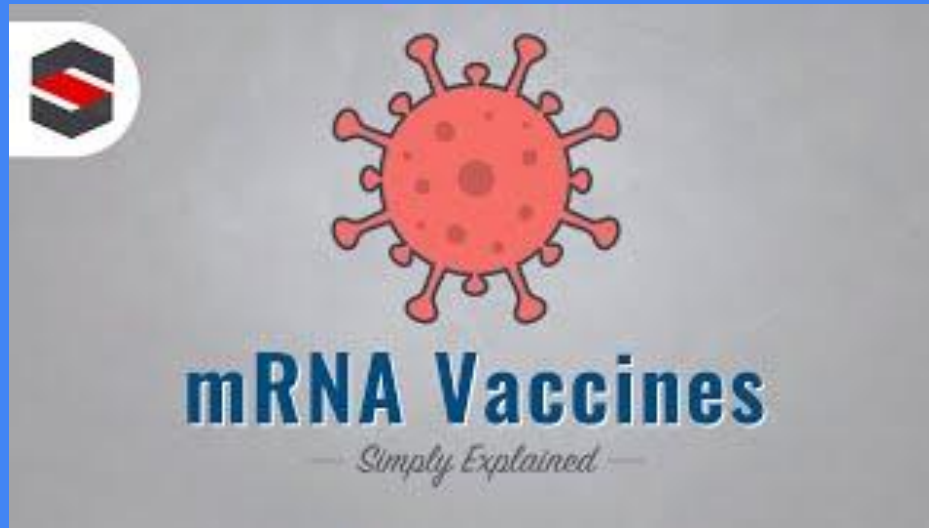
mRNA Vaccines



Xavier Decuyper likes to explain complicated topics in a simple way. So on his YouTube channel “Simply Explained” I get to be a video creator and teacher.

mRNA Vaccines

This video will teach you the basics of how in general vaccines work and how mRNA vaccines work in particular.



Vaccine Safety

This video will answer concerns people have about using vaccines.



Announcement of the 2023 Nobel Prize in Physiology or Medicine

This is a video of the information session for the press that was held in Sweden on October 2, 2023. It was designed to inform reporters about the advancements accomplished by the winners as well as answer questions.



How mRNA Medicine Will Change the World

Melissa J. Moore is an American biochemist who focuses on RNA. She was the **Chief Scientific Officer of Moderna from 2016-2023**, where her team contributed to the development of the Moderna COVID-19 vaccine.



How mRNA Medicine Will Change the World

This video explains how the basic science for which the Nobel Prize was awarded has been applied to produce the COVID-19 vaccine. It also explains how mRNA pharmaceuticals will be used in the future to create treatments for a number of diseases that so far have eluded cures.



2023 Nobel Prize Lectures in Physiology or Medicine

Katalin Karikó

Developing mRNA for Therapy

2023 NOBEL PRIZE
LECTURES IN PHYSIOLOGY
OR MEDICINE

Katalin Karikó
and Drew Weissman

7 December, 14:00 CET

#nobelprize

2023 Nobel Prize Lectures in Physiology or Medicine

Drew Weisman:

Nucleoside Modified mRNA-LNP Therapeutics

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The End