

Nobel Prize for Medicine

On October 2, 2023 the Nobel Prize winner's announcement started. On December 10 prizes will be distributed.

Winners:

- Katalin Karikó Hungarian American biochemist
- Drew Weissman American Physician & Scientist

Awarded for:

For their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19.

Announced by:

The Royal Swedish Academy of Science

Cash prize:

11 million Swedish kronor (approximately Rs. 8.33 crore)

mRNA Technology:

mRNA - Messenger RNA, a type of molecule that carries

instructions from DNA to a cell's cytoplasm, where those

messages are 'read' to produce various proteins.

mRNA – the **basis** for a new kind of vaccine.

This technology sends messages to our cells to make protein which

fight against virus, bacteria when it attacks our body. o n d T N P

Significance mRNA technology – Covid 19 vaccines:

- ✓ Through this technology, vaccine development is **quicker** than conventional vaccine
- Immunity of body strengthened
- ✓ Lowering death roll.
- ✓ Eg: Moderna, Pfizer vaccines used this technology.

Current studies:

Exploring its uses against – Influenza, dengue, some cancers &

autoimmune diseases.

More to know:

Katalin Karikó - 13th women to win the prize.





Outreach Katalin Karikó

Outreach **Drew Weissman**

Nobel Prize

Established by the will of **Alfred Nobel**

Awarded to – Contributor of greatest benefit to humankind

1st Award – 1901

Categories:

- 1. PHYSICS
- 2. CHEMISTRY
- 3. MEDICINE
- 4. LITERATURE
- 5. PEACE
- 6. ECONOMIC SCIENCE (1986 created)

Prize ceremony - Stockholm, Sweden in December every year.

For Peace prize - Presented annually in **Oslo**, Norway

Award: A gold medal, A diploma, A monetary award

Maximum sharing's – 3 people

Cannot be given posthumously

1ST Indian Nobel Laureate: Rabindranath Tagore (Literature), 1913

1ST Indian Woman Nobel Laureate: Mother Teresa (Peace), 1979

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