ALL NOBEL PRIZES 2021
The Nobel Prize

“to those who, during the preceding year, shall have conferred the greatest benefit to humankind”

Alfred Nobel (1833–1896)
The Nobel Prizes 2021

Physics prize: models of the climate and other complex systems

Chemistry prize: a tool that have revolutionised the construction of molecules

Medicine prize: receptors reacting to temperature and pressure

Literature prize: the author Abdulrazak Gurnah

Peace prize: efforts in the name of freedom of expression

Prize in economic sciences: natural experiments
The 2021 physics prize is awarded for models of the climate and other complex systems.
The 2021 physics laureates
"for groundbreaking contributions to our understanding of complex physical systems"

Syukuro Manabe and Klaus Hasselmann for the physical modelling of Earth’s climate, quantifying variability and reliably predicting global warming

Giorgio Parisi "for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales"

Syukuro Manabe
Born: 1931, Japan

Klaus Hasselmann
Born: 1931, Germany

Giorgio Parisi
Born: 1948, Italy
Models of the climate and other complex systems

Syukuro Manabe has developed models that demonstrate that increased levels of carbon dioxide in the atmosphere lead to higher temperatures on the earth’s surface.
The 2021 chemistry prize

The prize is awarded for tools that have revolutionised the construction of molecules.
The 2021 chemistry laureates

"for the development of asymmetric organocatalysis"

Benjamin List
Born: 1968, Germany

David W.C. MacMillan
Född: 1968, Storbritannien
Cheap, simple and eco-friendly

The laureates' tools are being used to produce pharmaceuticals more efficiently, more sustainably and more cheaply.
The medicine prize 2021

The discovery of how certain specific receptors react to temperature and touch allows us to explain our ability to perceive the world around us.
The 2021 medicine laureates

“for their discoveries of receptors for temperature and touch”

David Julius
Born: 1955, USA

Ardem Patapoutian
Born: 1967, Lebanon
For the greatest benefit to humankind

The laureates’ discoveries can be used in further research to develop new treatment methods for various disease conditions, including chronic pain.
The literature prize 2021

Abdulrazak Gurnah
Born: 1948, Zanzibar

"for his uncompromising and compassionate penetration of the effects of colonialism and the fate of the refugee in the gulf between cultures and continents."
The 2021 literature laureate

Abdulrazak Gurnah was born on Zanzibar but emigrated to England at the age of eighteen.
Debut and breakthrough

In 1987, Gurnah made his debut with the novel Memory of Departure. His breakthrough as a writer came with the 1994 novel Paradise.
The 2021 peace prize

The prize calls attention to the work of journalists around the world and underscores the importance of free, independent and fact-based journalism.
The 2021 peace laureates

“for their efforts to safeguard freedom of expression, which is a precondition for democracy and lasting peace”

Maria Ressa
Born: 1963, Philippines

Dmitry Muratov
Born: 1961, Russia
Representative of all journalists who stand up for free speech
The 2021 prize in economic sciences

The prize is awarded for research that shows how natural experiments can be used to answer important questions for society.
The 2021 economic sciences laureates

David Card “for his empirical contributions to labour economics”

Joshua D. Angrist and Guido W. Imbens “for their methodological contributions to the analysis of causal relationships”

David Card
Born: 1956, Canada

Joshua D. Angrist
Born: 1960, USA

Guido W. Imbens
Born: 1963, the Netherlands
Natural experiments are experiment-like situations that arise in real life.

1 April 1992: The hourly minimum wage in New Jersey was increased from 4.25 dollars to 5.05 dollars. Despite this, employment in New Jersey was not affected.
Awarding the Nobel Prize

On 10 December each year, the Nobel Prize is presented.
FOR THE GREATEST BENEFIT TO HUMANITY