

ALL NOBEL PRIZES 2020

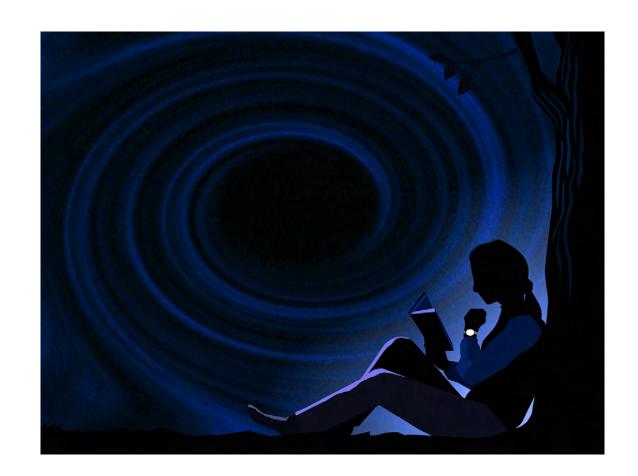
The Nobel Prize

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

Alfred Nobel (1833-1896)



All Nobel Prizes 2020



Physics Prize: Research on black holes



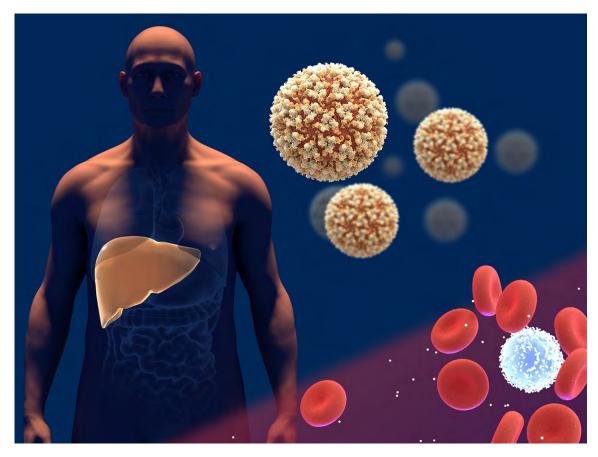
Literature Prize: American poet Louise Glück



Chemistry Prize: The discovery of the genetic scissors



Peace Prize: World Food Programme (WFP)



Medicine Prize: The discovery of Hepatitis C virus

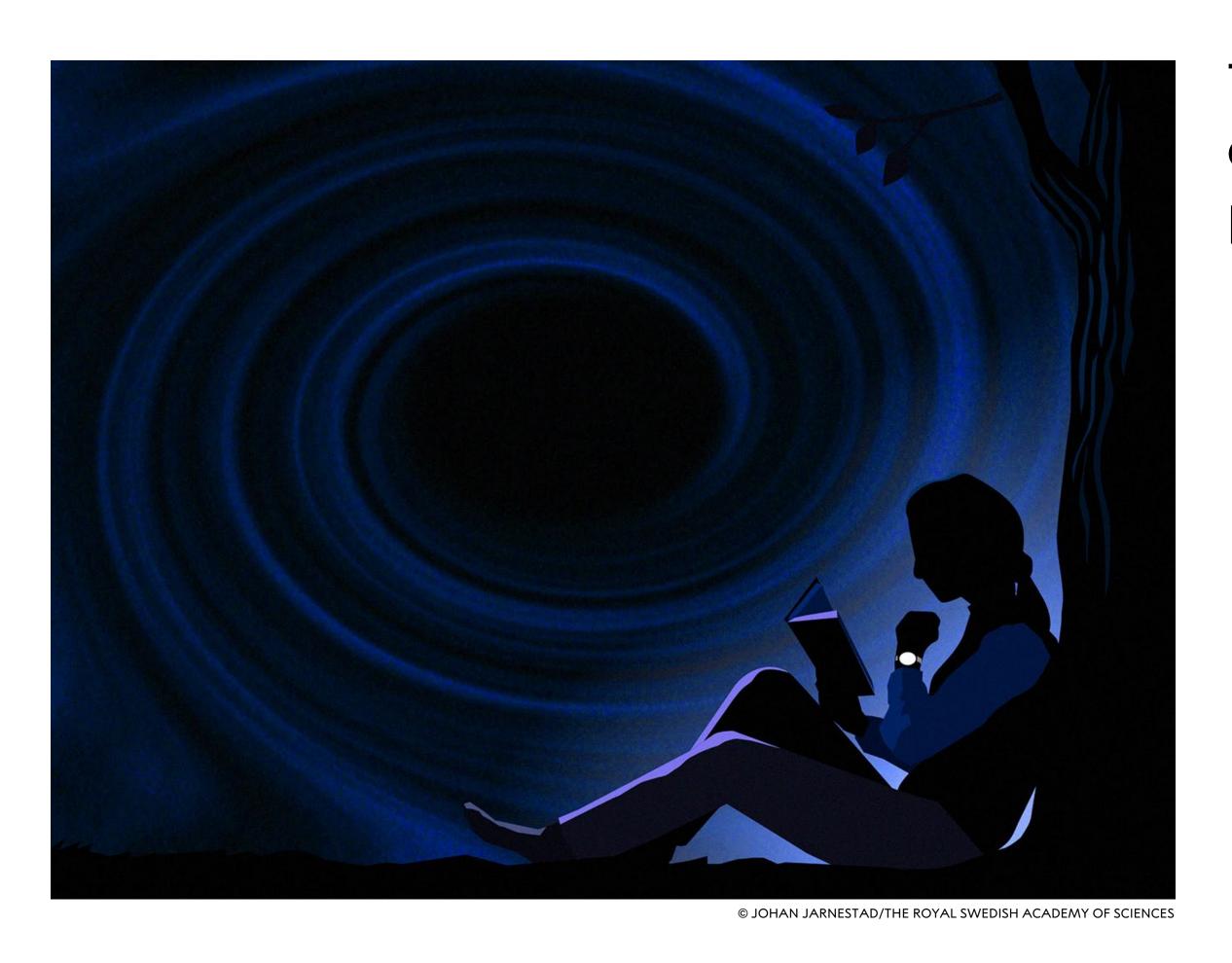


Economic Sciences Prize: Research on auctions

All 2020 Nobel Laureates



The 2020 Physics Prize

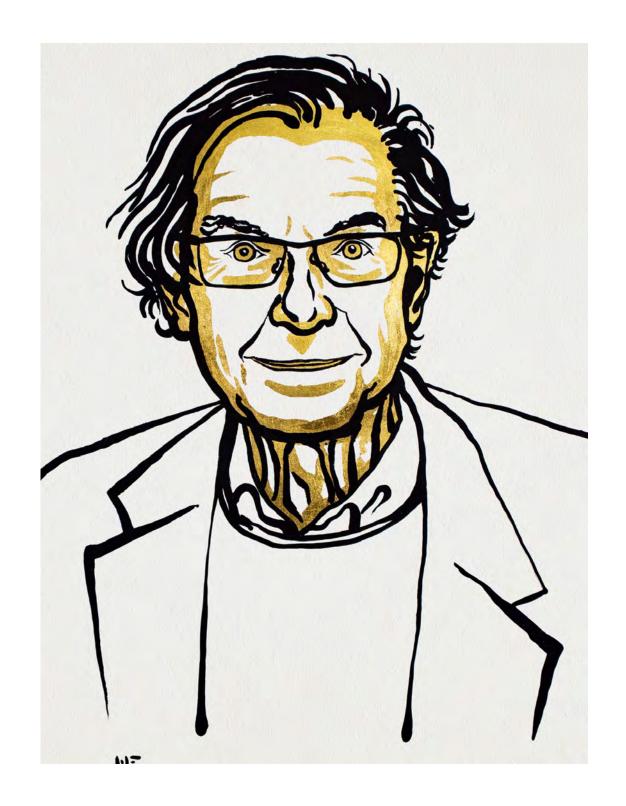


The prize rewards researchers for their discoveries about one of the strangest phenomena in the universe: black holes.

The 2020 Physics Laureates

Roger Penrose
"for the discovery that black
hole formation is a robust
prediction of the general
theory of relativity"

Reinhard Genzel and Andrea Ghez "for the discovery of a supermassive compact object at the centre of our galaxy"



Roger Penrose Born: 1931, United Kingdom

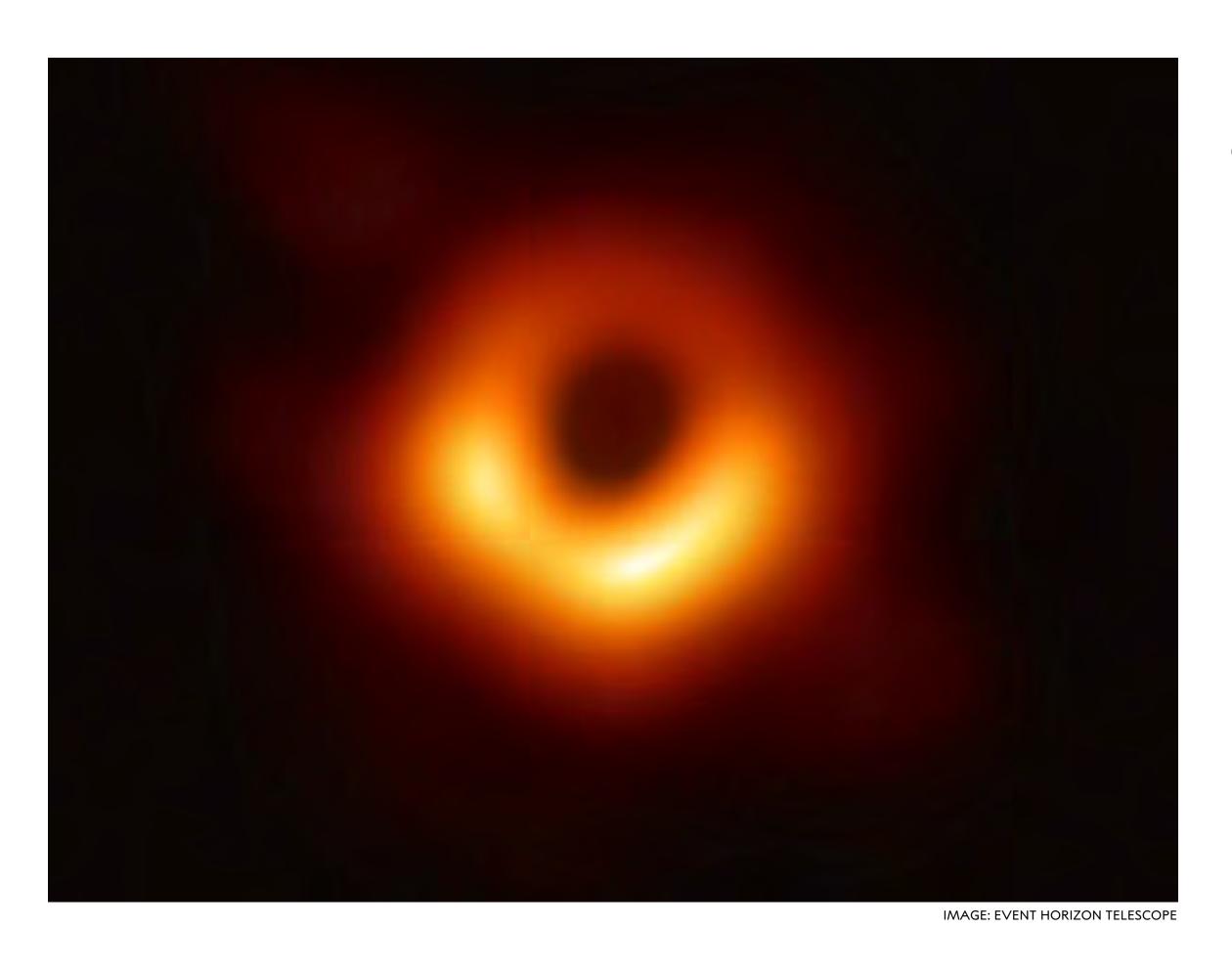


Reinhard Genzel Born: 1952, Germany



Andrea Ghez Born: 1965, USA

Black holes



Black holes are incredibly heavy and compact objects.

2020 Chemistry Prize



The prize is awarded for the discovery of one of gene technology's sharpest tools: the CRISPR/Cas9 genetic scissors.

The 2020 Chemistry Laureates

"for the development of a method for genome editing"



Emmanuelle Charpentier Born: 1968, France



Jennifer A. Doudna Born: 1964, USA

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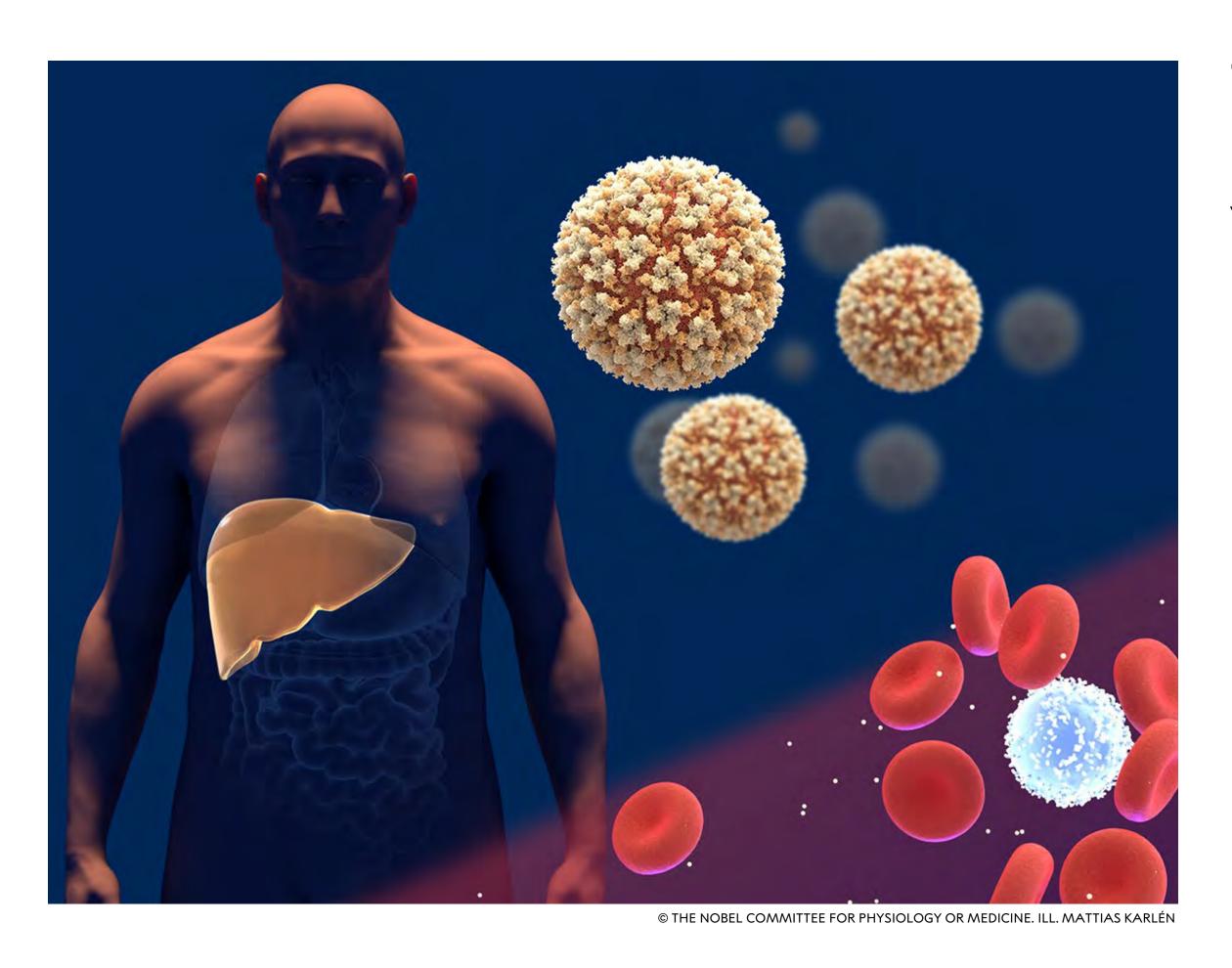
Unlimited possibilities – but also risks

Jennifer A. Doudna, one of the laureates, holding a model of the genetic scissors. The laureates' discovery offers hope of curing serious diseases.



PHOTO: UC BERKELEY PHOTO BY STEPHEN MCNALLY

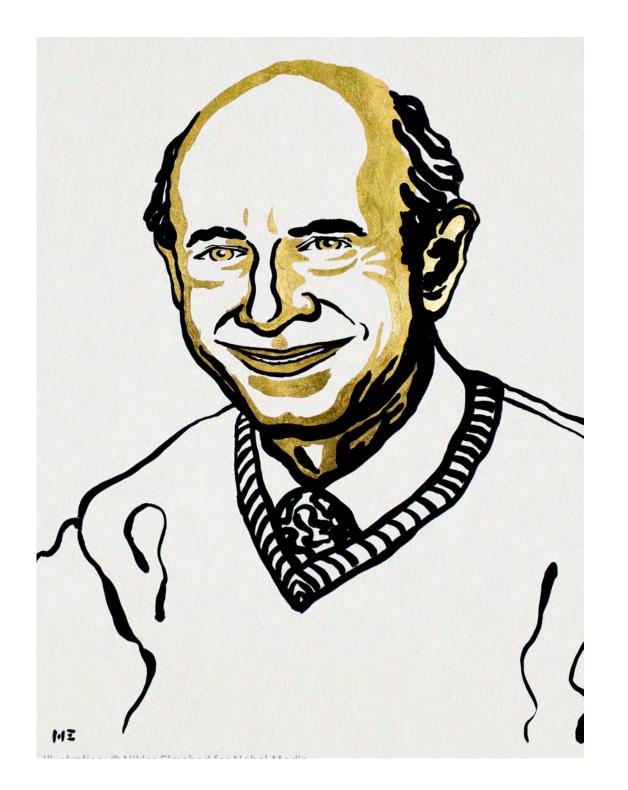
2020 Medicine Prize



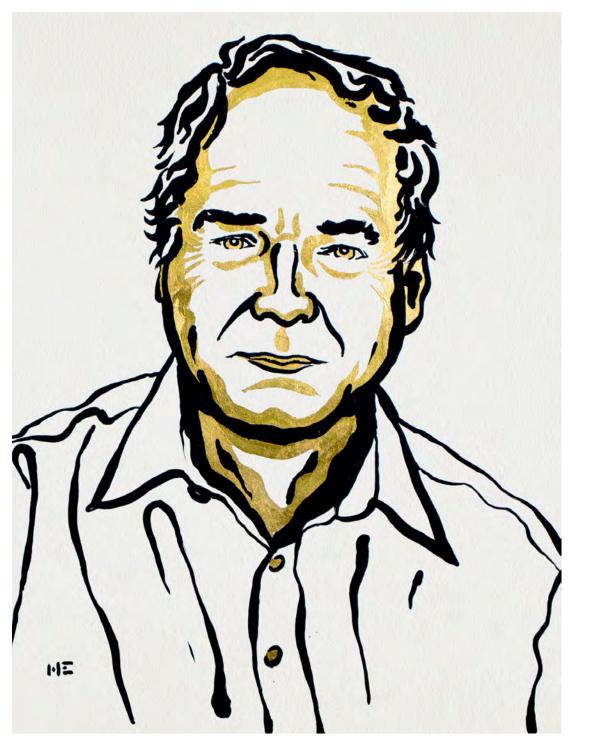
The prize is awarded for pioneering research that led to the discovery of a new virus that causes the disease hepatitis.

The 2020 Medicine Laureates

"For the discovery of Hepatitis C virus"



Harvey J. Alter Born: 1935, USA

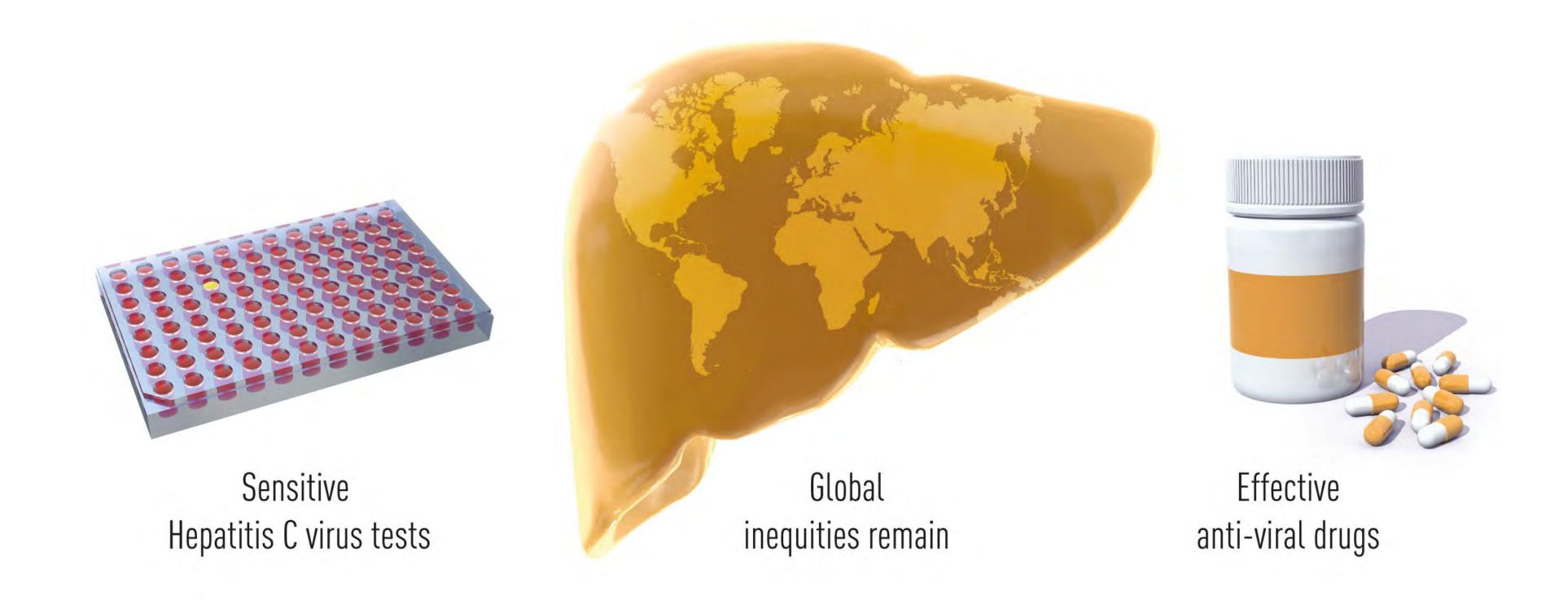


Michael Houghton Born: 1949, United Kingdom



Charles M. Rice Born: 1952, USA

For the greatest benefit to humankind



2020 Literature Laureate



Louise Glück Born: 1943, USA

"for her unmistakable poetic voice that with austere beauty makes individual existence universal"

From the poem "Snowdrops"

I did not expect to survive,
earth suppressing me. I didn't expect
to waken again, to feel
in damp earth my body
able to respond again, remembering
after so long how to open again
in the cold light
of earliest spring —

Straightforward and deep at the same time



Louise Glück engages with timeless topics such as isolation, relationships and the confrontation with death.

2020 Peace Laureate



World Food Programme (WFP) Founded in 1961.

"for its efforts to combat hunger, for its contribution to bettering conditions for peace in conflict-affected areas and for acting as a driving force in efforts to prevent the use of hunger as a weapon of war and conflict"

Supports 100 million people in more than 80 countries

WFP is the the world's largest humanitarian organisation working to eliminate hunger.



PHOTO: WFP/MOHAMMED AWADH

Link to peace?

Efforts to fight hunger can also contribute to peace and security.







PHOTO: JESSICA LAWSON, AL-BARA MANSOUR

2020 Economic Sciences Prize



The prize is awarded for research that has contributed new ways to use auctions that benefit sellers, buyers and taxpayers around the world.

2020 Economic Sciences Laureates

"for improvements to auction theory and inventions of new auction formats"



Paul R. Milgrom Born: 1948, USA

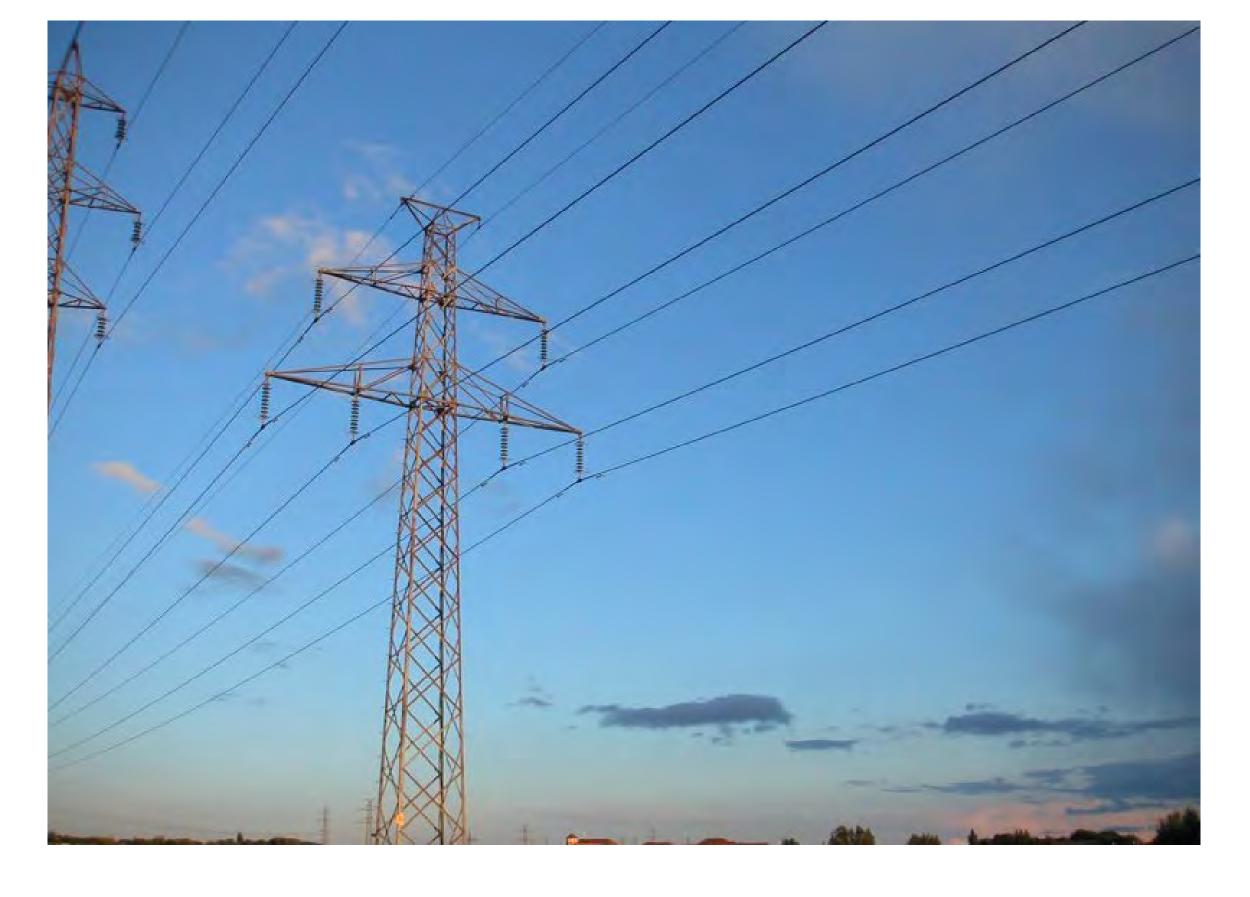


Robert B. Wilson Born: 1937, USA

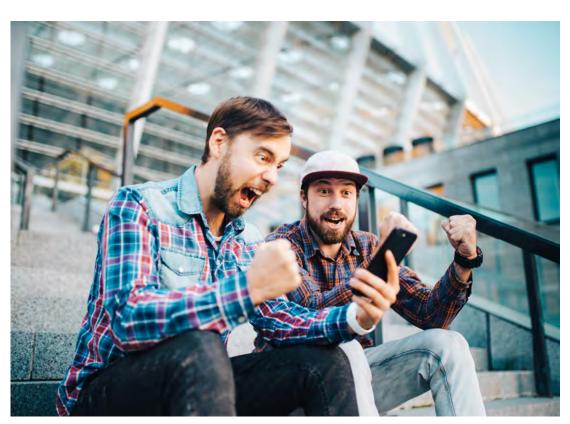
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Better auctions in practice

The laureates have not only devoted themselves to auction theory; they have also invented new auction formats.







Awarding the Nobel Prize



On 10 December each year, the Nobel Prize is presented.



FOR THE GREATEST BENEFIT TO HUMANKIND