

## SOLVAY COLLOQUIUM



### Prof. Katalin Karikó University of Pennsylvania, USA

2022 Laureate of the Science for the Future Solvay prize

## Developing mRNA for therapy

Messenger RNA was discovered in 1961 and it took six decades until the first mRNA became FDA-approved product in the form of COVID-19 mRNA vaccine. During those years a lot of progress has been made but the inflammatory nature of the mRNA hampered its medical use. We achieved a great milestone when we ward off the response by replacing uridine with pseudouridine in mRNA. We further demonstrated that modified mRNA formulated with LNP can be a potent vaccine.

These discoveries eventually led to the development of the mRNA vaccine that has now helped to fight the pandemic and opened the door for developing breakthrough therapeutics for unmet medical needs.

**Wednesday 30 March 2022 at 4:00 P.M.**

COFFEE AND TEA WILL BE SERVED AT 3:45 P.M AND DRINKS AT 5:00 P.M.  
IN FRONT OF THE SOLVAY ROOM

SOLVAY ROOM  
UNIVERSITÉ LIBRE DE BRUXELLES  
CAMPUS PLAINE - BOULEVARD DE LA PLAINE  
ACCESS 2 - 1050 BRUSSELS