

[Victor Ambros](#) and [Gary Ruvkun](#)

“for the discovery of microRNA and its role in post-transcriptional gene regulation”

[Katalin Karikó](#) and [Drew Weissman](#)

“for their discoveries concerning nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19”

[David Julius](#) and [Ardem Patapoutian](#)

“for their discoveries of receptors for temperature and touch”

[Harvey J. Alter](#), [Michael Houghton](#) and [Charles M. Rice](#)

“for the discovery of Hepatitis C virus”

[James E. Rothman](#), [Randy W. Schekman](#) and [Thomas C. Südhof](#)

“for their discoveries of machinery regulating vesicle traffic, a major transport system in our cells”

[Richard Axel](#) and [Linda B. Buck](#)

“for their discoveries of odorant receptors and the organization of the olfactory system”

[Paul C. Lauterbur](#) and [Sir Peter Mansfield](#)

“for their discoveries concerning magnetic resonance imaging”

[Sydney Brenner](#), [H. Robert Horvitz](#) and [John E. Sulston](#)

“for their discoveries concerning genetic regulation of organ development and programmed cell death”

[Stanley B. Prusiner](#)

“for his discovery of Prions - a new biological principle of infection”

[Alfred G. Gilman](#) and [Martin Rodbell](#)

“for their discovery of G-proteins and the role of these proteins in signal transduction in cells”

[Edmond H. Fischer](#) and [Edwin G. Krebs](#)

“for their discoveries concerning reversible protein phosphorylation as a biological regulatory mechanism”

[Erwin Neher](#) and [Bert Sakmann](#)

“for their discoveries concerning the function of single ion channels in cells”