

THE
NOBEL
PRIZE

CHEMISTRY PRIZE 2022

•

It just says click!

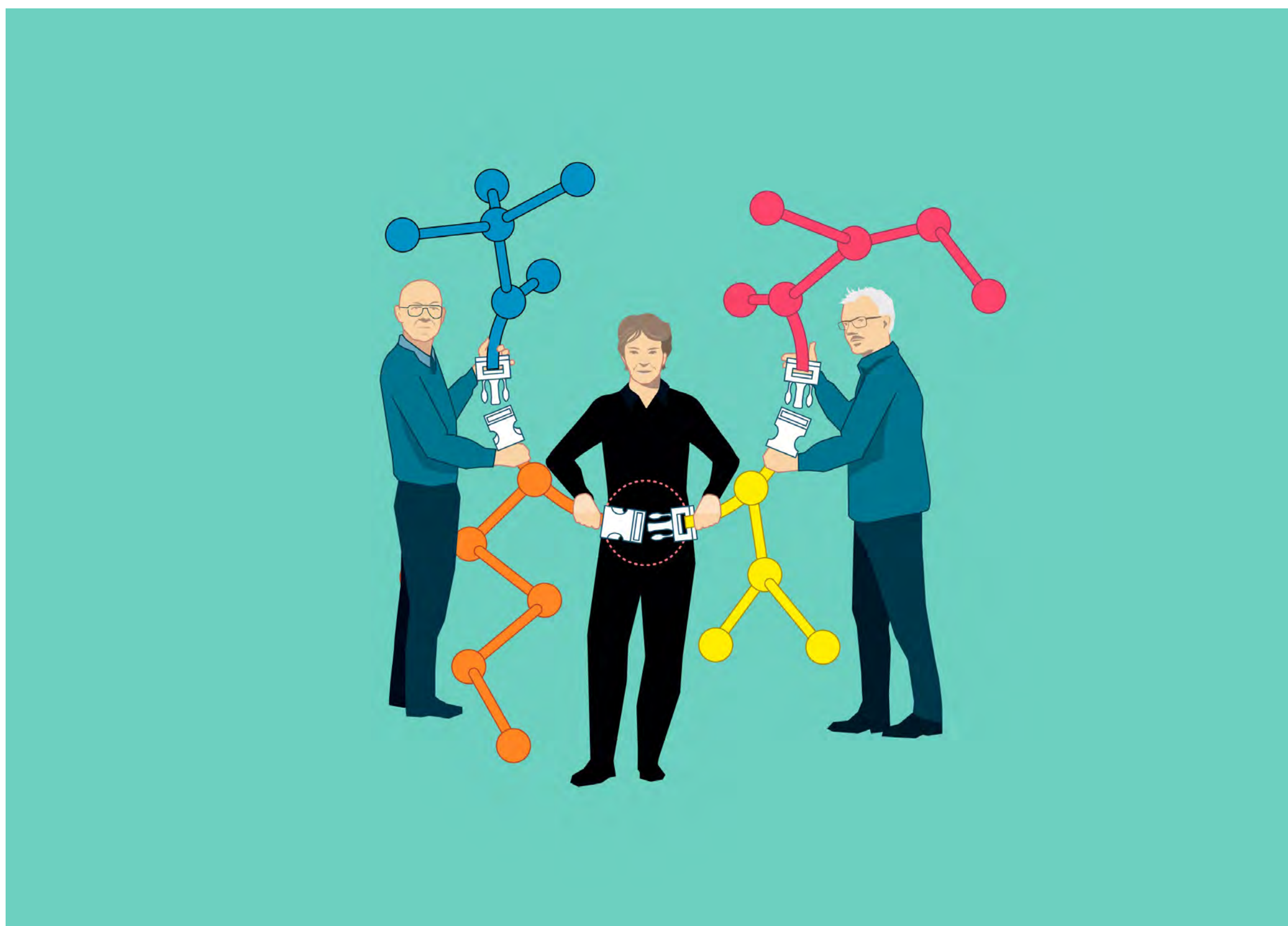
The Nobel Prize in Chemistry

“to the person who made the most important chemical discovery or improvement”



Chemistry Prize 2022

The 2022 Chemistry Prize is about “click chemistry”, which allows researchers to construct molecules in an effective and systematic way.



The 2022 Chemistry Laureates

“For the development of click chemistry and bioorthogonal chemistry”



Carolyn R. Bertozzi
Born: 1966, USA

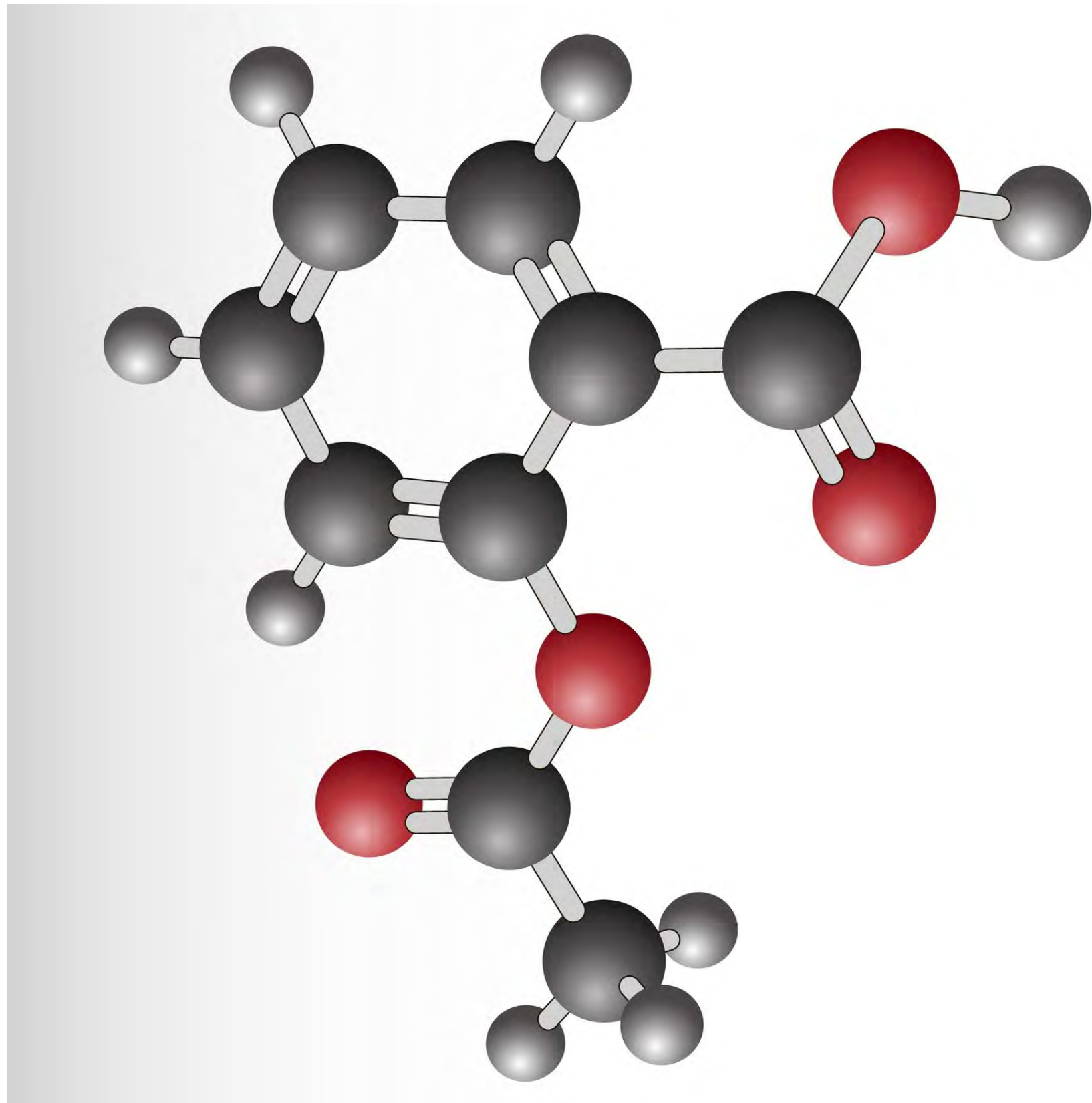


Morten Meldal
Born: 1954, Denmark



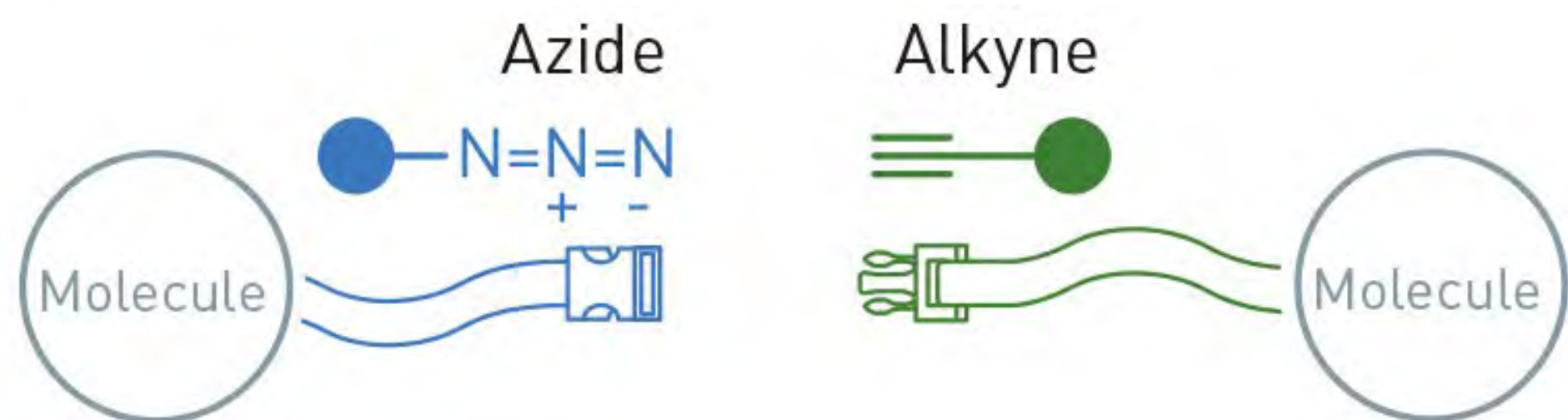
K. Barry Sharpless
Born: 1941, USA

Why do we want to build complicated molecules?

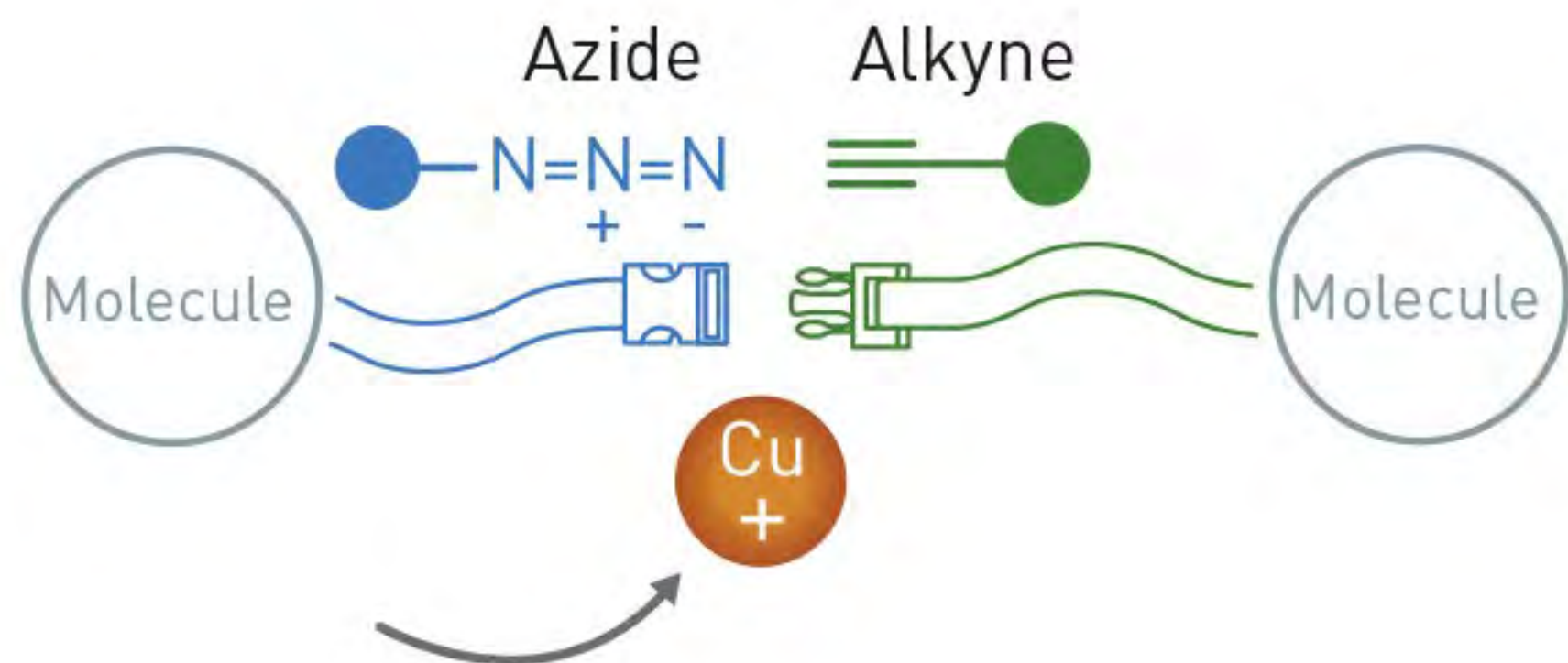


Our whole world is built up of molecules.

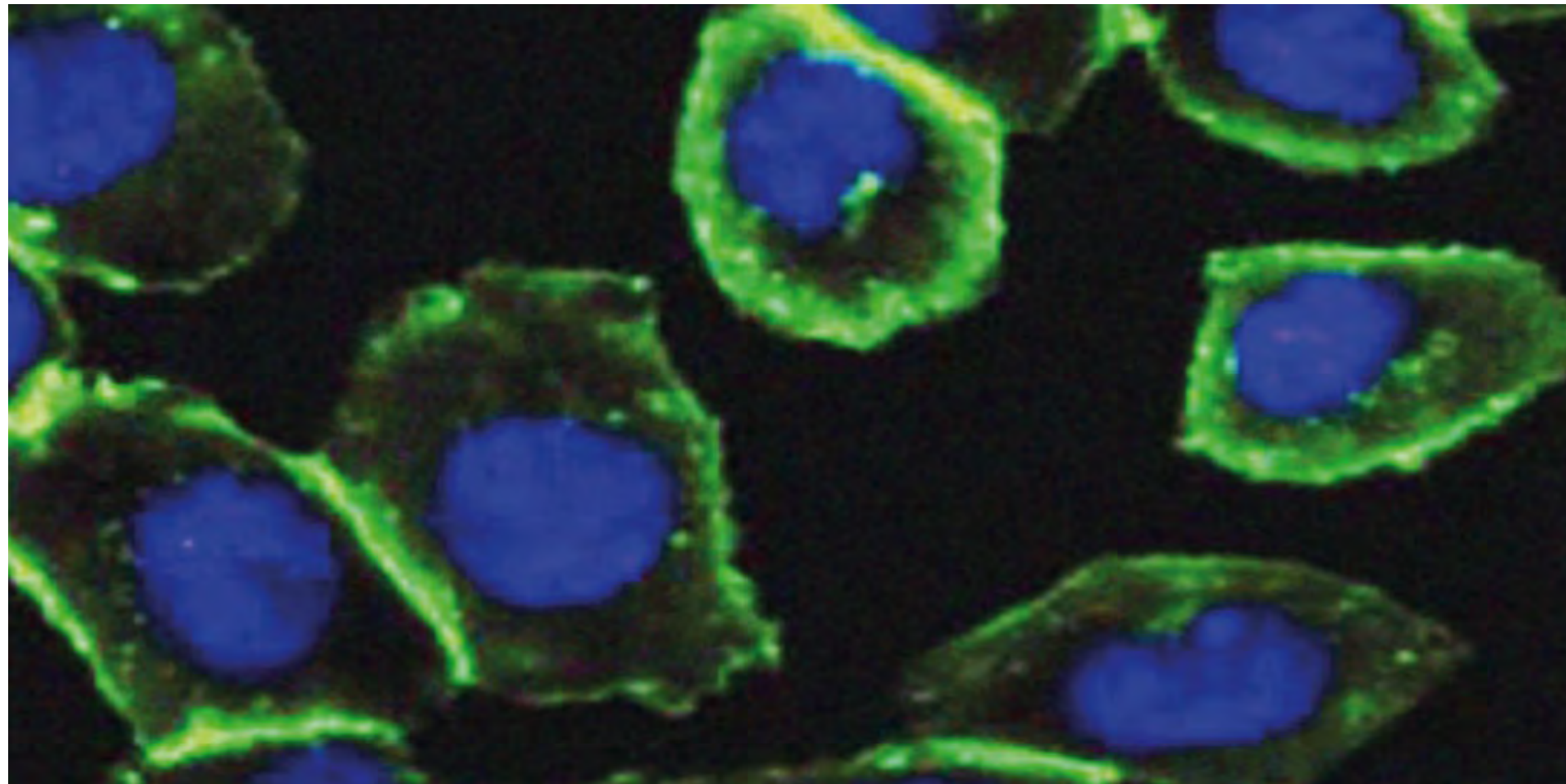
The click reaction that changed chemistry



We can attach almost anything to click molecules, which means we can link together many more molecules than was previously possible.



Bioorthogonal chemistry illuminates the cell

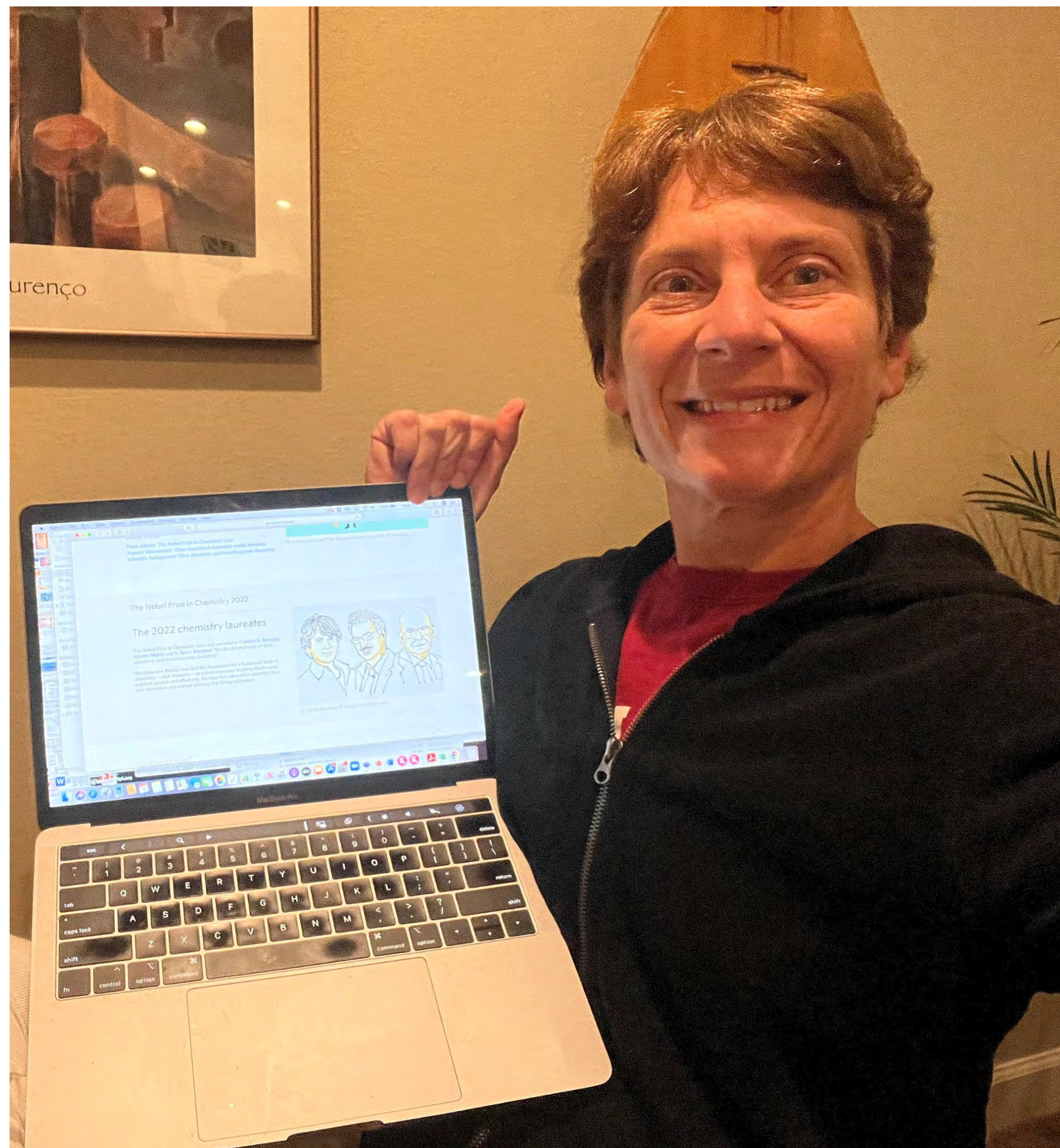


Carolyn Bertozzi refined the method further so that it can be used in living organisms too. By attaching one of the click molecules to a fluorescent molecule and the other to a cell membrane, she could make the cell more visible under a microscope.

For the greatest benefit to humankind

The click method is used frequently in laboratories all over the world.





“When the world is
in trouble,
chemistry comes to
the rescue”

Carolyn R. Bertozzi, Nobel Prize laureate in chemistry 2022

THE
NOBEL
PRIZE

FOR THE GREATEST
BENEFIT TO
HUMANKIND

Nobel Prize Lessons