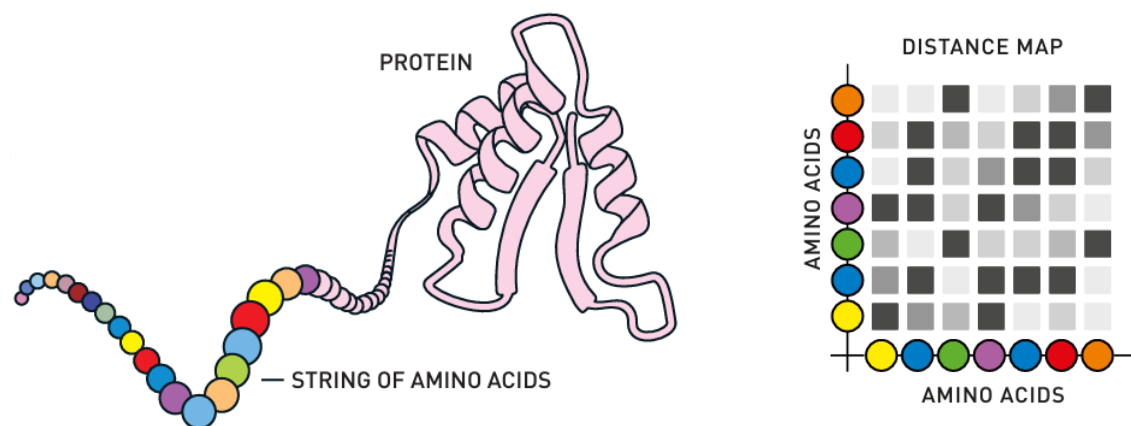


The Nobel Prize in Chemistry - 2024

The 2024 Nobel Prize in Chemistry was awarded jointly to David Baker, Demis Hassabis, and John Jumper for developments in protein design and structure prediction. Proteins are large molecules made of amino acids that control and drive the chemical reactions that govern life, but understanding their behaviour is extremely challenging.

The ability to predict protein structure and enable novel protein design is a significant step forward. This prize was given for disciplines that may traditionally be considered biology and computer science, so forces us to think about traditional boundaries between scientific disciplines, and showcases the breadth of skills needed in modern chemistry.



Left: proteins are made of amino acids, AlphaFold uses machine learning to predict their structure **Right:** David Baker, Demis Hassabis, and John Jumper.

