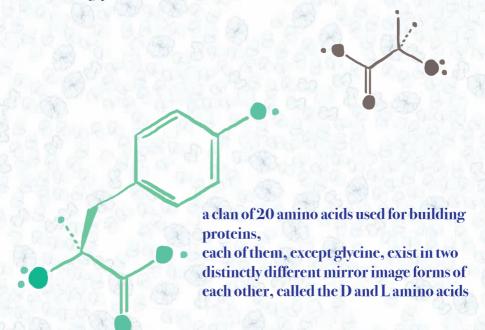


Introducing you to

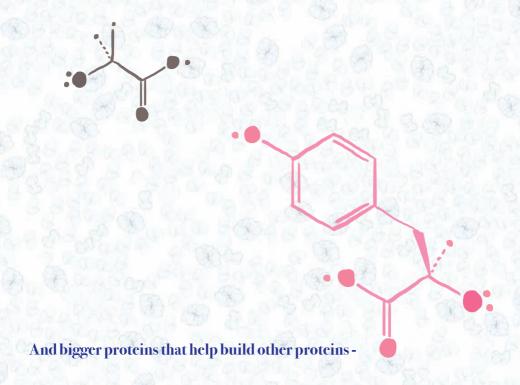






mRNA - the design of proteins

tRNA - the carrier of amino acids to build proteins

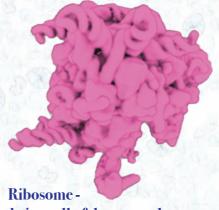




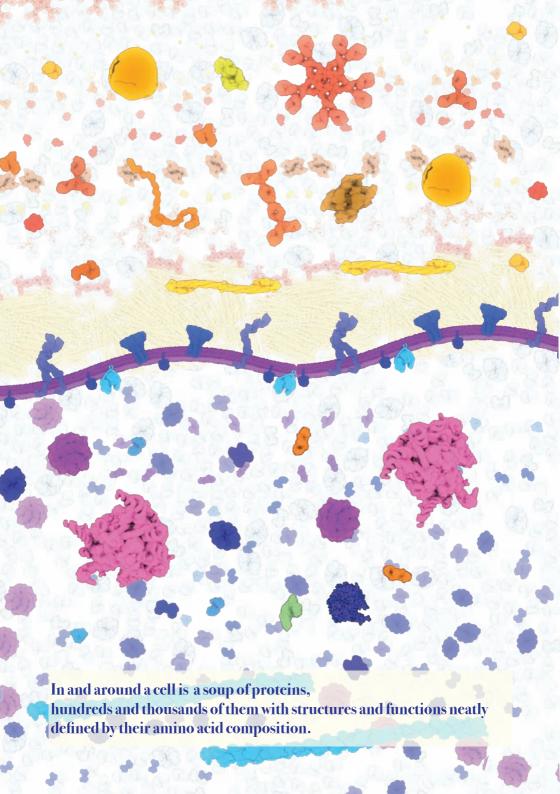
Aminoacyl tRNA synthetase - picks the right match of amino acid for its specific tRNA



EF-Tu - brings the amino acid bound tRNA to the ribosome

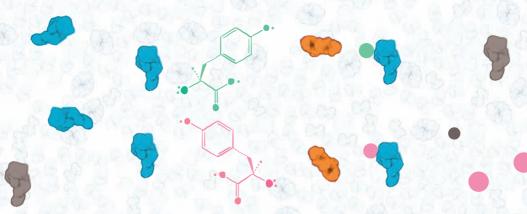


Ribosomebrings all of these together, and keeps adding amino acids, one at a time, in the sequence dictated by the design on the mRNA



But each made of only L-amino acids.

What stops the D-amino acids from building proteins?



A chopping machine with fine senses of micro-structures - DTD, does. D-amino acid bound tRNA has a structure different from L-amino acid bound tRNA.

The former fits into a specific pocket on the DTD, the latter doesn't. Anything that fits this pocket, gets cleaved with an exception of amino acid glycine bound tRNA.

