

Polypeptide (protein)

Color key:

black = carbon

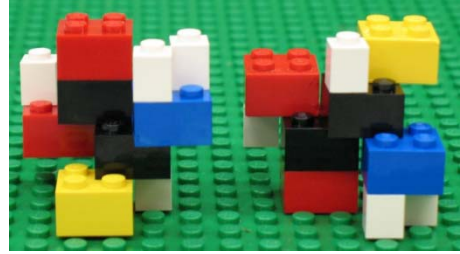
white = hydrogen

red = oxygen

blue = nitrogen

yellow = assorted functional groups

Monomer for the condensation polymerization:



amino acid (L isomer)

This model requires:

35 white 1x1 bricks

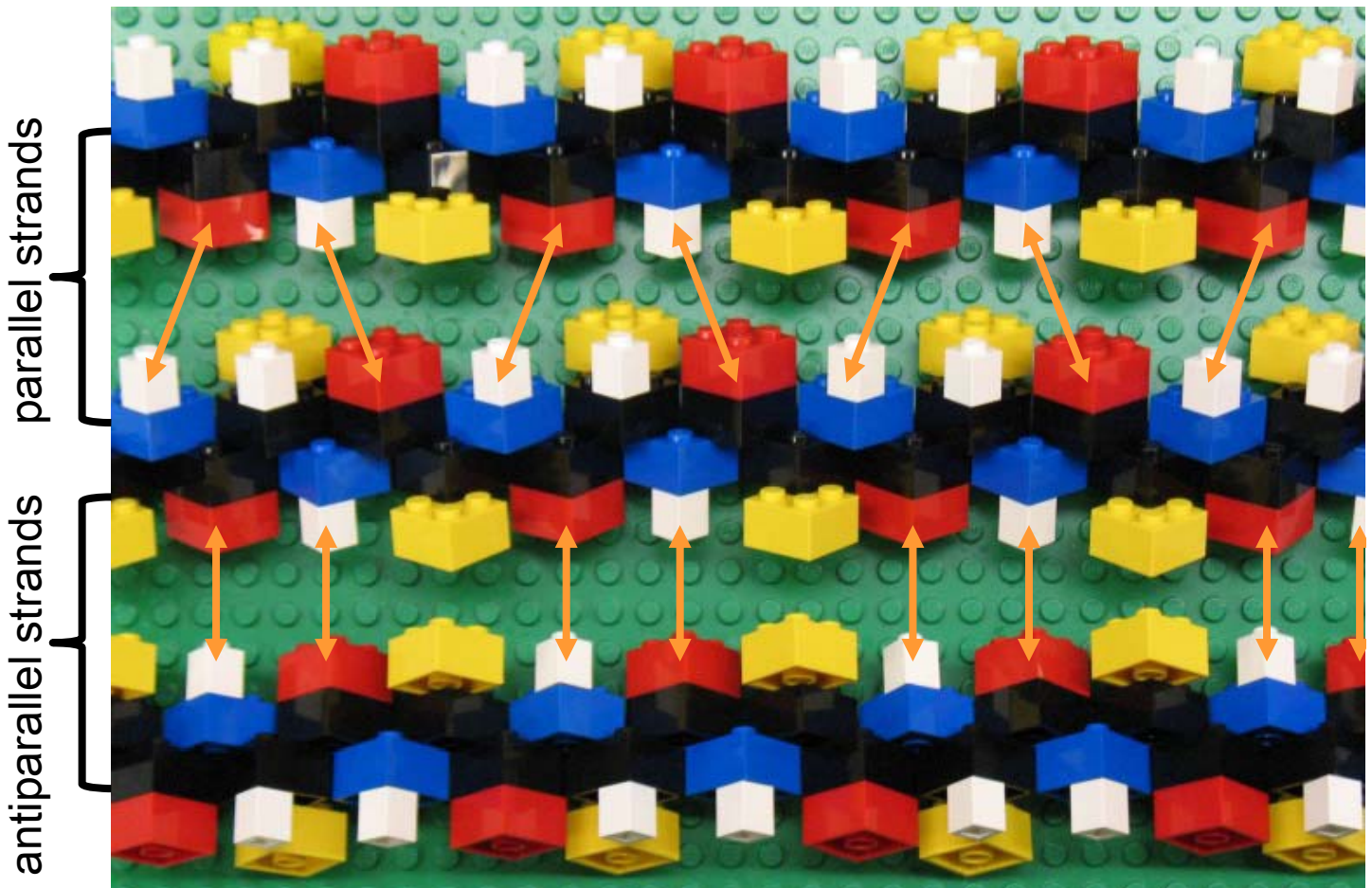
22 red 2x2 bricks

23 blue 2x2 bricks

46 black 2x2 bricks

25 yellow 2x2 bricks

Hydrogen bonds (orange arrows) can form between oxygen atoms on one polymer strand and hydrogen atoms attached to nitrogen atoms on an adjacent polymer strand.



NOTE: Hydrogens connected to the nitrogens on the bottom reversed strand have been moved to the front for ease of viewing.