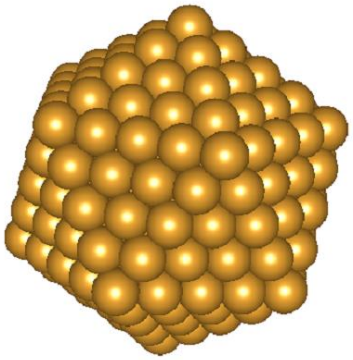
3D MODELS

You need to install Aurasma app & follow "sakidja" to view these images. The models (DAE-type files) were generated in Autodesk Maya

GOLD NANOPARTICLE

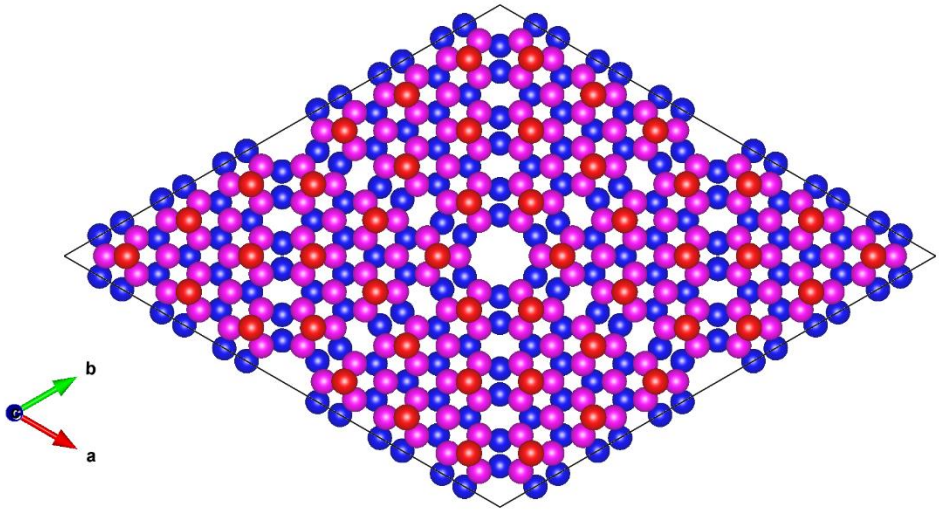
Question: How many triangle faces can you identify for this particle ?



Answer : twenty

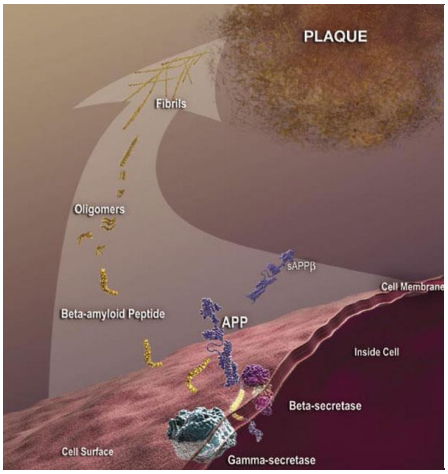
SILICON (111) : FORMATION OF 7x7 SURFACE RECONSTRUCTION

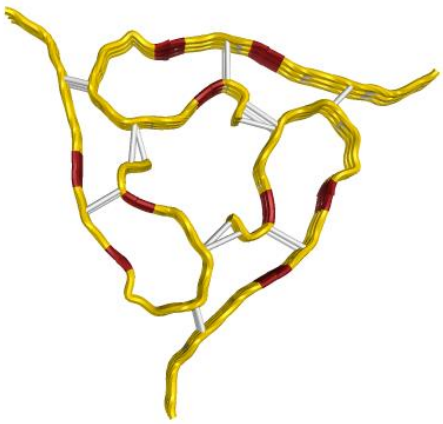
Question: How many adatoms & pairs of dimers can you identify per 7x7 unit cell ?



Answer: 12 adatoms (red-color) & 9 pairs of dimers (blue-color)

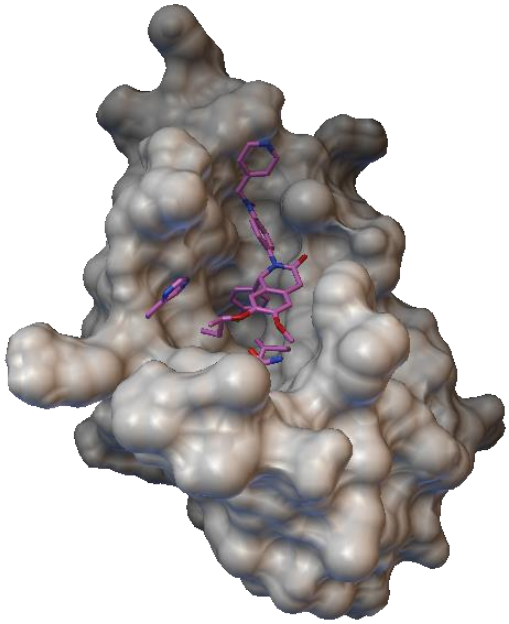
AMYLOID PRECURSOR PROTEIN (APP)





The 3D models from PDB: 1app for the APP and 2M4J for the dense fibrils. The illustration above taken from NIH's website. *Follow this link*.
Alzheimer's disease (AD) is characterized by the formation of the β-amyloid peptide (Aβ) plaque deposits within the brain. The amyloid precursor protein (APP) is the starting point for the plaques whereby the presence of excess beta-amyloid peptipes stabilizes the eventual formation of fibrils.

MOLECULAR DOCKING



Molecular docking modeling of RG7388 drug designed to bind selectively to the MDM2 onco-protein by using Autodock code (PDB: 4JRG). See this link for more details.