

Alright so now we're going to go into a little bit more detail on Dengue virus since it's once the subjects of our talk today. If you rotate it very carefully, I'm going to highlight for you the pentamer at each vertex, so there it is there. And if you're very sharp, you can spot a three-fold axis of symmetry. This corresponds to the center of each of the triangular faces. Now this whole structure, amazingly, is formed by just dimers, pairs of glycoproteins, and they're highlighted right here. As I mentioned, this whole thing floats on a lipid bilayer. So if we strip away the glycoprotein you can see the lipid underneath. And if we blow away the lipid bilayer you can see a protein core, the nucleocapsid of the virus, which encases the genome. So now let's go right to the heart. Dengue is an RNA virus genome and the RNA is packaged within this nucleocapsid. And it looks like it's going to hit you right now.