

So imagine this yellow portion is the portion where the tri-nucleotide repeat is, and as you know helicases open the DNA, the DNA polymerases copy it. So we're going to watch that repeat now get through the helicase, this single strand is shown. The DNA polymerase slips on that repeat and a hairpin is formed. And now as this goes through you will watch as it goes through the second cycle in the next round of replication. This longer repeat will now get replicated and incorporated in our DNA and you're going to end up with an expansion, and here you've seen a small expansion, but imagine this going on again, and again, and again. So with time this will continue to get bigger and that's why the disease will keep getting worse.