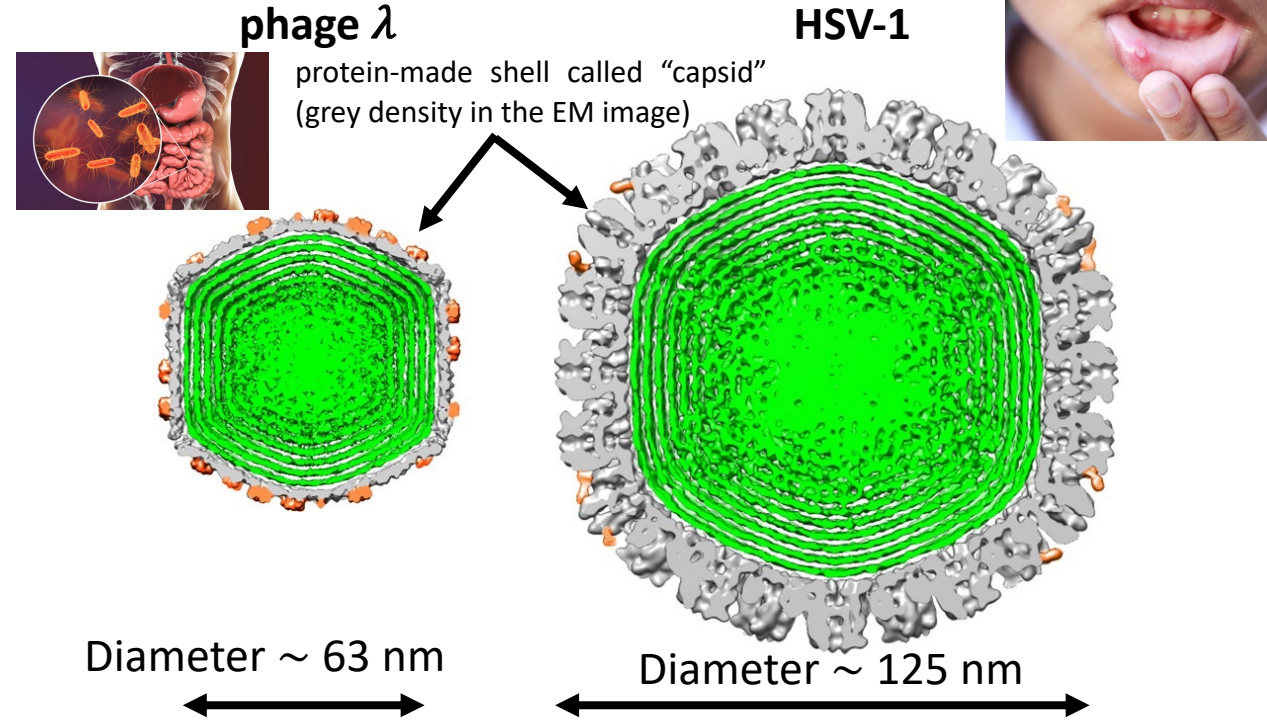


Our lab is researching the structure of two types of viruses: phage  $\lambda$  and herpes simplex virus 1 (HSV-1)



Inside those capsids there is double stranded DNA (green layers) whose length is hundreds of times larger than capsid's diameter:

$L_{\lambda} = 16\,490$  nm, i.e., **261 times larger than phage  $\lambda$  capsid!**  
 $L_{\text{HSV1}} = 51\,000$  nm, i.e., **408 times larger than HSV-1 capsid!**



It gives rise to a tightly packaged DNA which is evenly spaced inside the viral capsid. **This DNA is packaged at high pressurization on the order of tens of atmospheres.**

**For phage  $\lambda$** , as temperature raises close to body temperature,

