HHMI 2010 Lecture #3 – Dengue infection studies

1. What are the target cells of dengue virus?
2. How does a previous infection of dengue aid in exacerbating a second infection?

(ADE) explain – you may use bullets/diagrams.

1. What happens when macrophages of the immune system are activated?

 AND

 Why does this result in severe dengue?

1. What are 3 results of ADE that are used as indicators that antibodies to one dengue serotype can cause a more severe infection the second time around?
2. Briefly explain the experimental technique used to find out if the second infection could be blocked?
3. Why was it important to uncover the *mechanism* of disease infection in order to develop therapeutic treatment of the dengue hemorrhagic fever?