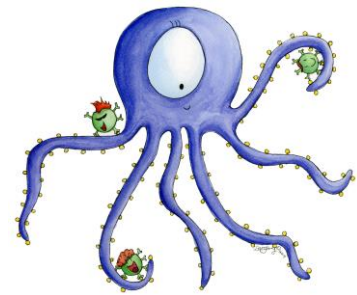




## ACTIVITY #6: MAKING A DESIGNER DENDRITIC CELL



### What we will do:

Make a designer dendritic cell to grab bacteria and viruses and decorate it with microbe pieces.

### What you will need:

- Craft supplies like playdough/clay, matchsticks
- Pipe cleaners
- Pegs

### Instructions:

1. Let's make a designer dendritic cell!
2. Make the body of the dendritic cell using a ball of playdough or a soft ball e.g. a bouncy ball.
3. Add some long arms onto the dendritic cell using pipe cleaners. Then add a peg to the end of each arm to help the dendritic cell grab onto viruses and bacteria.





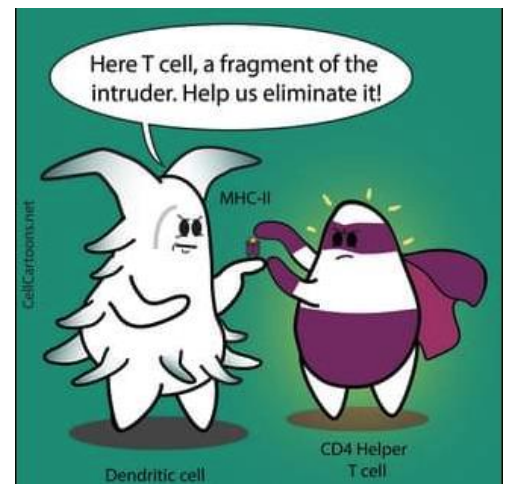
4. If you kept the viruses you made in Activity 1 show us your designer dendritic cell capturing these microbes.

5. Be sure to decorate your dendritic cell with pieces of the microbes it's captured and share a picture with us @dayofimmunologywa



### ***Dendritic Cell Facts:***

1. Dendritic cells are professional antigen presenting cells. They capture microbes, break them down and then present pieces of the microbes to other immune cells, such as T cells.
2. Dendritic cells are the link between the innate (immediate) immune response and adaptive (induced) immune response.
3. Dendritic cells have receptors on their surface, which can help to activate T cells.
4. Dendritic cells are also responsible for immune tolerance, which prevents autoimmunity, or damage to self.



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