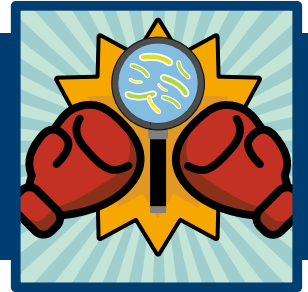


UNIT: TUBERCULOSIS

LESSON 3: ME VS. TB - BOOSTING THE IMMUNE SYSTEM TO DEFEAT AN ANCIENT ADVERSARY

ACTIVITY 3A: PROVE IT WITH CER!



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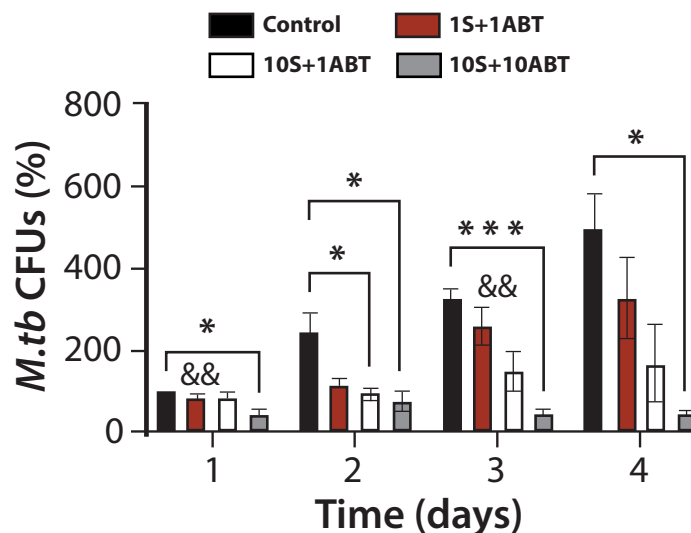
DIRECTIONS: Read the transformed article *Me vs. TB: Boosting the Immune System to Defeat an Ancient Adversary*, then answer the following questions.

1. Why do you think research is ongoing for TB treatment?
2. What is an HDT and what are the benefits of using HDTs in TB treatment?

Analyze the bar graph below, Figure 4 CFU Comparison, and draw your own conclusions.

You can refer to page five of the *Me vs. TB: Boosting the Immune System to Defeat an Ancient Adversary* article to help you better understand the graph.

Figure 4. CFU Comparison

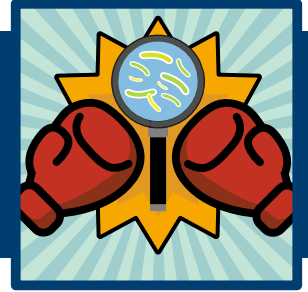


Processing Out

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3. What trends do you notice for each of the four treatment options over the four day time period?
4. Based on the trends, what would you predict for day 5?
5. Refer to Figures 3 and 4 in the article. How are the two graphs, Figures 3 and 4, related?
6. What conclusions can you draw about the two graphs based on your observations?

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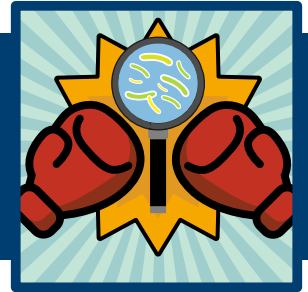
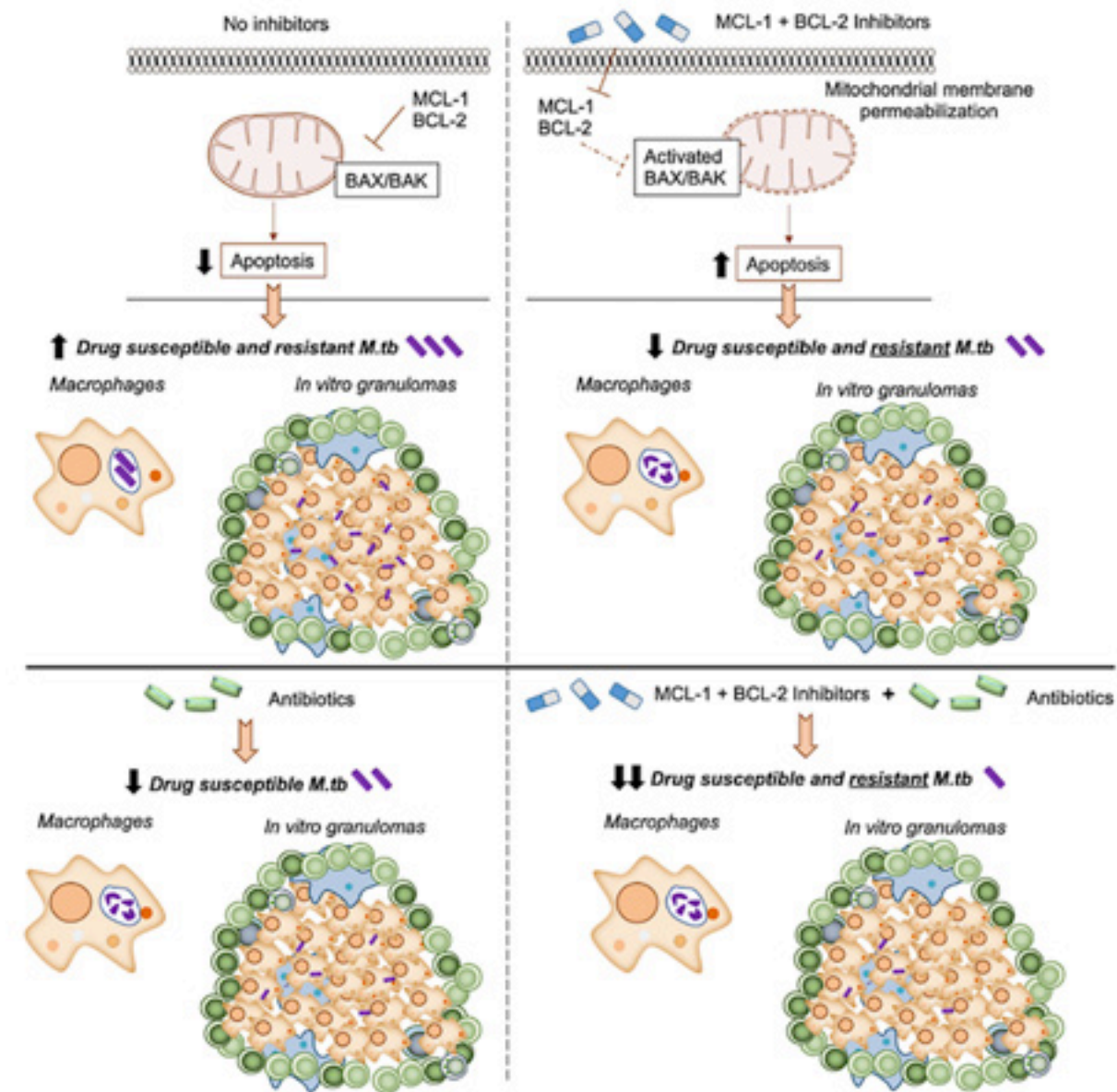


Figure 5. Comparison Between Treatment With and Without HDTs



Source: ScienceDirect© (<https://doi.org/10.1016/j.biopha.2023.115738>)

7. Review your graph (Figure 3). Identify connections between your graph and Figure 5 (above).