

Microbiomes

Final Argument Reasoning Tool

Name _____

Date _____ Hour _____

- I chose Subclaim 2 or 3 (circle one). Write this subclaim in the table.
- The bacteria I am focusing on to support my claim is L. reuteri
- List evidence from the article and Mice Experiment 2 or 3 in the table below.

Evidence	Reasoning	Claim
<p>Article</p> <p>Bacteria:</p> <p>L. reuteri</p>	<p>How does this evidence support my claim? (So what?)</p> <ul style="list-style-type: none"> - L. reuteri bacteria help us digest food and produce vitamins that aid human health. - L. reuteri helps the gut lining to produce mucus, which protects the gut and keeps it healthy. - Large numbers of L. reuteri grow together in sheets stuck to the walls of the gut, preventing harmful bacteria from using that living space. - When L. reuteri is not present the gut can easily become infected. 	<p>Therefore...</p> <p>Bacteria from the fecal transplant can help the patient's body produce mucus that protects the gut from invading bacteria</p>
<p>Experiment 3:</p> <p>L. reuteri</p> <p>Bacteria</p>	<ul style="list-style-type: none"> - Normal mouse gut microbiome has high immune cells and high gut mucus. - Mouse with no gut bacteria have low immune cells and low gut mucus. - Mouse with only L. reuteri bacteria in the gut have low immune cells but high gut mucus. 	

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- I chose Subclaim 2 or 3 (circle one). Write this subclaim in the table.
- The bacteria I am focusing on to support my claim is B. fragilis.
- List evidence from the article and Mice Experiment 2 or 3 in the table below.

Evidence	Reasoning	Claim
<p>Evidence</p> <p>Article</p> <p>Bacteria:</p> <p><i>B. fragilis</i></p>	<p>How does this evidence support my claim? (So what?)</p> <ul style="list-style-type: none"> - <i>B. fragilis</i> strengthen the body's defenses by helping the immune system produce enough immune cells to kill harmful bacteria. - <i>B. fragilis</i> help humans by sticking to the gut wall preventing harmful bacteria from moving in. - <i>B. fragilis</i> produces substances to help keep the cells of the gut healthy. The gut cells need these substances to repair and protect themselves. 	<p>Therefore...</p> <p>Bacteria from the fecal transplant can help the patient's body produce immune cells that kill invading bacteria.</p>
<p>Experiment 2:</p> <p><i>B. fragilis</i></p> <p>Bacteria</p>	<ul style="list-style-type: none"> - Normal mouse gut microbiome has high immune cells and high gut mucus. - Mouse with no gut bacteria have low immune cells and low gut mucus. - Mouse with only <i>B. fragilis</i> in gut have high immune cells and low gut mucus. 	