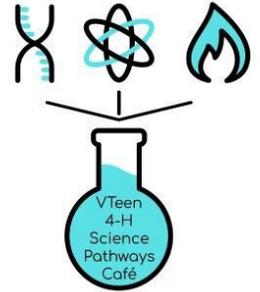




VTeen Science Explorations



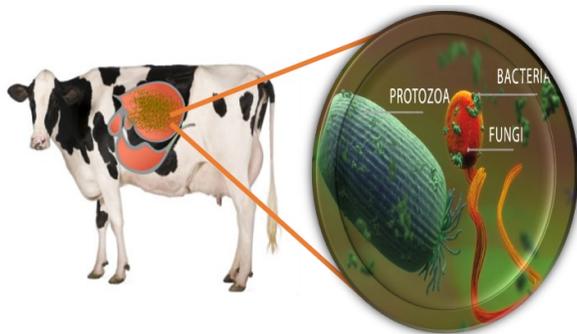
Ruminant Nutrition: The Symbiotic Relationship Between the Cow and Her Microbes

Wednesday, February 3, 2021, 3:30-4:45 pm

Open to all youth entering grades 7-12 in VT and across the country!

Register@ www.uvm.edu/extension/youth/announcements

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Cattle (among other select herbivores) contain a four - compartment stomach with the largest compartment being the rumen. The rumen is home to billions of microbes that degrade and ferment feed material that are ingested by the cow. The microbial by-products or “wastes” produced during fermentation are highly beneficial to the cow and positively impact cattle production and performance. Rumen microbes are preferential in the feed substrates they consume, thus diet formulation and feed supplementation can shift the rumen microbial profile ultimately impacting the responses observed

in cattle. For a more detailed explanation of the symbiotic relationship between the cow and her microbes, please join us for an interactive presentation including opportunities to ask questions.

ABOUT OUR SPEAKER

Lauren Baker is a Graduate Research Assistant getting her master’s in Animal Science from The University of Vermont. Lauren received her undergraduate degree in Animal Science from Tarleton State University in Texas, where she was an undergraduate researcher evaluating the fiber content of disposable coffee cups as an alternative feed additive in the rations of cattle. Lauren’s current research seeks to evaluate the effects of dietary yeast supplementation on rumen microbiota and their functions.

What is a Virtual Teen Science Café? It is a free, fun way for teens to explore science, engineering and technology with local scientists, engineers and technology experts. Teens will “meet a scientist”, learn about their work, and be able to participate in informal discussions.

Questions? Contact lauren.traister@uvm.edu

To request a disability-related accommodation to participate in this program, please contact the 4-H Office at 802-888-4972 or lauren.traister@uvm.edu by January 13, 2021 so we may assist you.



www.uvm.edu/extension/youth