

Free pdf Labpaq microbiome experiment answers

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scientific method explain how this experiment is set up to test a specific hypothesis through appropriate methods disciplinary knowledge describe the function of gut microbes describe how exhaled gases can be used to measure gut fermentation identify gut bacteria using dna sequencing data analysis analyze and interpret data from your discuss the complexity of the human microbiome explore a computational lab allowing students to explore rich microbiome data identify trends and make predictions based on information acquired from databases develop research questions for further investigation of the human microbiome this experiment provides information about how a healthy gut microbiome full of different types of bacteria could be important to the overall health of an organism s body scientists have coined the term microbiome to refer to all prokaryotic and eukaryotic microorganisms and their genetic material that are associated with a certain organism or environment within the human microbiome there are resident microbiota and transient microbiota in essence it is your second genome in fact since many of the bacteria inside the body have not been cultured or studied scientists can only identify them through their dna the microbiome has a major influence our health microbiome pre test please circle the best answer to the following questions 1 true or false microbes such as viruses and bacteria who live in and on the human body can be beneficial to humans a true some microbes can serve useful functions in humans however most microbes are harmful b true systematic study of the human microbiome is a very young science and scientists are just beginning to address the questions of what constitutes a normal microbiome how the microbiome changes over time and how the composition and activity of the microbiome affect health and disease in this review we discuss the best practices for performing a microbiome study including experimental design choice of molecular analysis technology methods for data analysis and the lesson 2 7 guide overview students complete a second scientific argument that they will contribute to the microbiome research institute for an upcoming press release they work with the evidence that they evaluated in the previous lesson in preparation for writing they organize this evidence in the reasoning tool the findings he says also highlight how the delicate balance of gut microbial species can affect the success of high stakes therapies such as immune checkpoint inhibitors this treatment helps contextual clues help students match commensal or mutualistic microbes to the area of the human body where they thrive includes easy cut cards featuring eight example microbes and an outline of the human body with space to record answers have students work individually or in groups at home microbiome testing kits can be a first step we look at these and give our recommendations for your overall gut health questions this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials in the following sections we describe a microbiome analysis analytical pipeline from acquisition of samples multiplex dna sequencing using the illumina miseq sequencing platform and bioinformatics data analysis to accommodate a wide spectrum of clinical and basic science investigators the human skin microbiome project is an application of the principles and practices of classic microbiological investigation during this project which will take several weeks to complete you will survey the microbial inhabitants of the human skin yours while some bacteria can cause disease others play beneficial roles in human health we have co evolved with microbes in and on our body with everyone having a unique set of microorganisms the most abundant and well studied microbiome is found in the gut there is a bewildering

diversity of microbiome relevant molecular analyses that can be performed on biological specimens today each with strengths and weaknesses figure 3 the correct type of analyses for an experiment is completely dependent on the scientific question and hypothesis interrogating the microbiome to find answers about disease trillions of microbes bacteria viruses fungi colonize in our bodies and their genome of genetic instructions work alongside ours blood microbiome bacteria leaky gut up until recently if bacteria were detected in your blood you would be in a world of trouble blood was long considered to be sterile meaning free of viable microorganisms like bacteria when disease causing bacteria spread to the blood they can cause a life threatening septic shock evidence suggests that the gut microbiome plays a critical role in human metabolism and health and often interacts with genetic factors and the environment studies have also identified various

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4 1 prokaryote habitats relationships and microbiomes

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scientists have coined the term microbiome to refer to all prokaryotic and eukaryotic microorganisms and their genetic material that are associated with a certain organism or environment within the human microbiome there are resident microbiota and transient microbiota

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in essence it is your second genome in fact since many of the bacteria inside the body have not been cultured or studied scientists can only identify them through their dna the microbiome has a major influence our health

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viruses and bacteria who live in and on the human body can be beneficial to humans a true some microbes can serve useful functions in humans however most microbes are harmful b true

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systematic study of the human microbiome is a very young science and scientists are just beginning to address the questions of what constitutes a normal microbiome how the microbiome changes over time and how the composition and activity of the microbiome affect health and disease

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interrogating the microbiome to find answers about disease trillions of microbes bacteria viruses fungi
colonize in our bodies and their genome of genetic instructions work alongside ours

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blood microbiome bacteria leaky gut up until recently if bacteria were detected in your blood you would
be in a world of trouble blood was long considered to be sterile meaning free of viable microorganisms like
bacteria when disease causing bacteria spread to the blood they can cause a life threatening septic shock

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