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The bacteria with carbohydrates and other essential nutrients, while the rhizobia, in return, fix atmospheric nitrogen for the legume, providing it with a natural source of nitrogen. This symbiotic relationship is crucial for soil health and sustainable agriculture, particularly in nitrogen-poor soils. The legume provides a protective environment for the rhizobia, while the rhizobia fix nitrogen, making it available to the plant. This process is a natural and sustainable way to enhance soil fertility and crop yields.

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