

Fragebogen

1 General_Instruction

Dear participant,

thank you very much for your participation in this experiment in which we investigate causal reasoning.

On the next screens, we will show a fictitious scenario that we use to investigate this issue.

Please take your time and make sure that you fully understand the scenario. This is important for us because we will later ask you to provide particular judgments. Please note that we are interested in your **intuitive decisions**.

Finally, please notice that your participation in this study is fully anonymous and that we guarantee that we do not collect any personal information. You can quit the study at any time by simply closing the browser window.

*This research is conducted under the scientific direction of:
Dr. Simon Stephan
Department of Cognitive and Decision Sciences,
University of Göttingen, Germany.*

Before you start, please:

- maximize your browser window;

- switch off phone/e-mail/music & anything else distracting

- and please enter your Prolific ID [it can be found at the top of this webpage or when going to your account info]:

This study works properly only on Desktop PCs and Laptops, and not on Smartphones or Tablets. Please confirm that you take part via Desktop PC or Laptop.

- I confirm that I take part via Desktop PC or Laptop.
- I do not confirm that I take part via Desktop PC or Laptop.

For the scientific utility of the results, it is very important that you provide complete and careful responses.

How seriously will you take your participation in the study?

- I confirm that I will take my participation in this study seriously.
- I confirm that I will not take my participation in this study seriously.

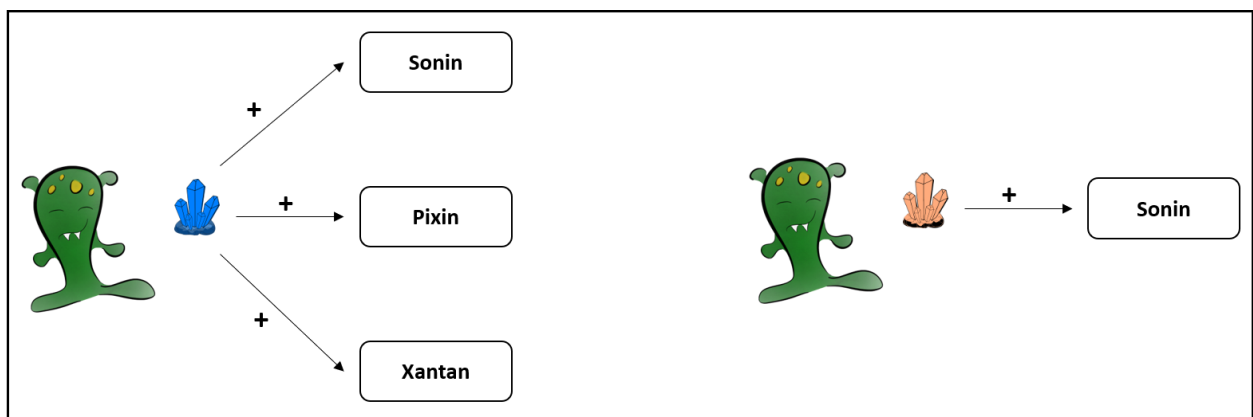
2.1.1.1.1.1 blue_first

Please read the following scenario:

A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to positive effects. There are two different types of crystals, blue and red.

Blue crystals possess the capacity to cause the body to produce multiple healthy blood substances. Blue crystals can cause the body to produce the blood substances Sonin, Pixin, and Xantan.

Red crystals possess the capacity to cause the body to produce a single healthy blood substance. Red crystals can cause the body to produce the blood substance Sonin.



We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Sonin. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Sonin?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to produce the blood substance Sonin?

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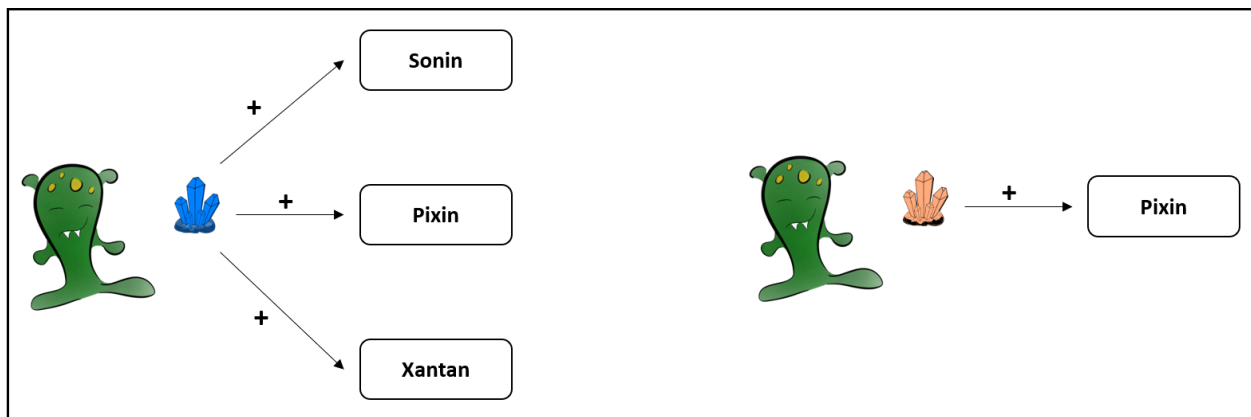
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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Pixin. To express your intuition about the causal strength, please answer the following questions:

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According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to produce the blood substance Pixin?

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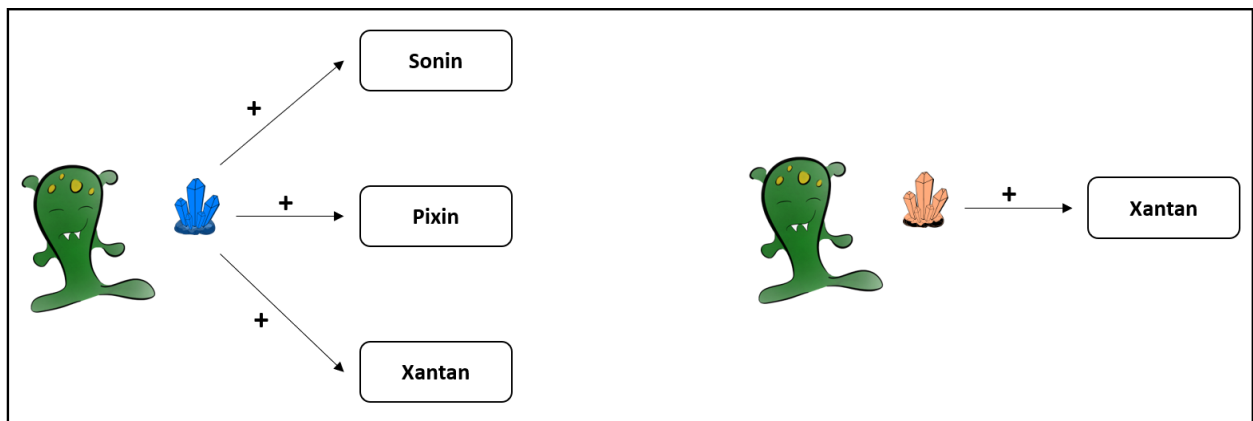
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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Xantan. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Xantan?

Please use the scale below to provide your answer.

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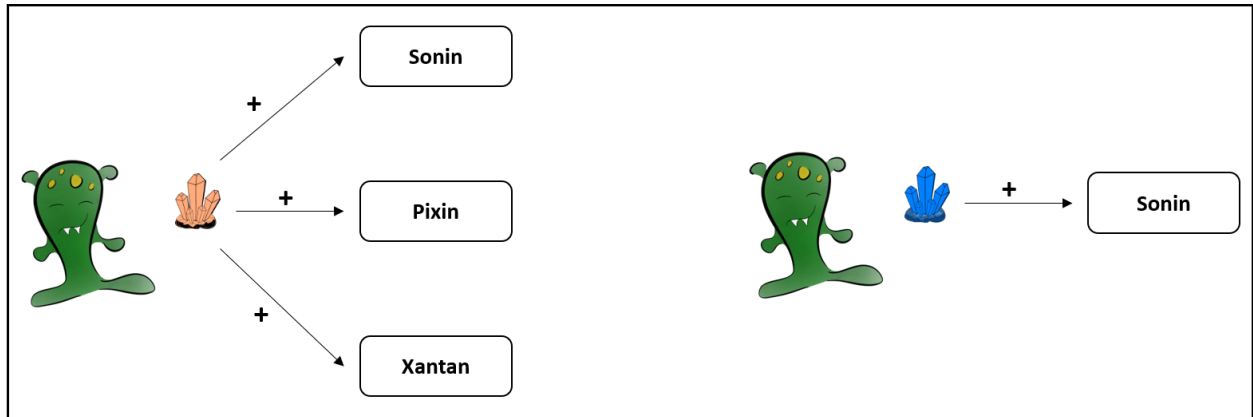
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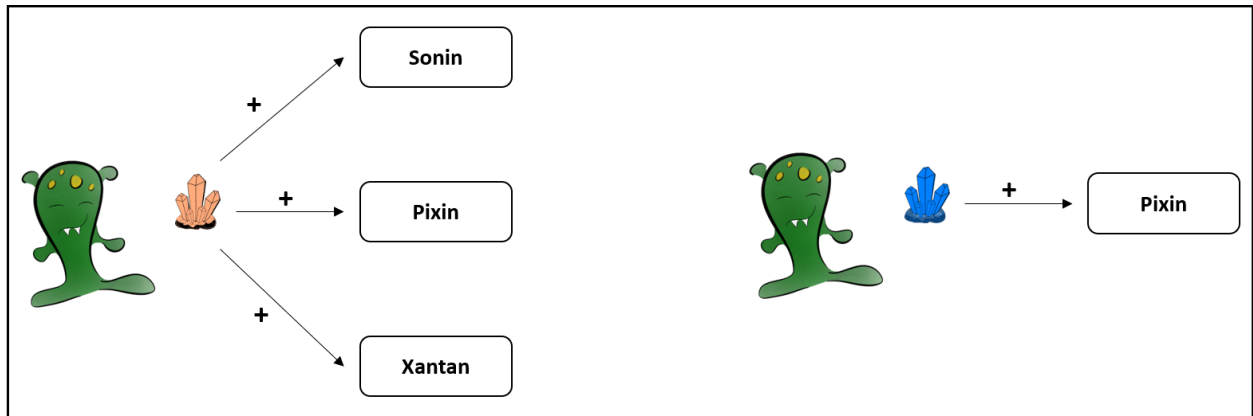
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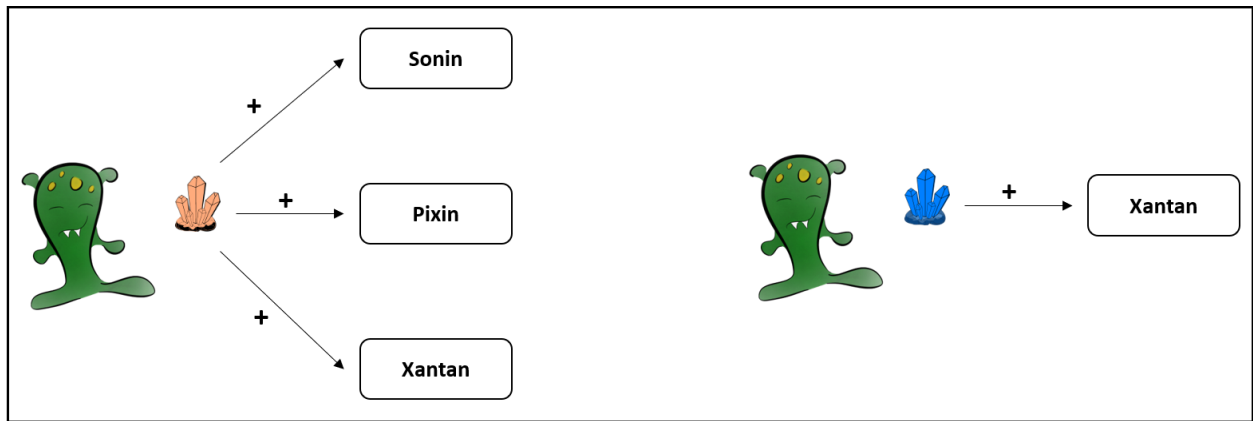
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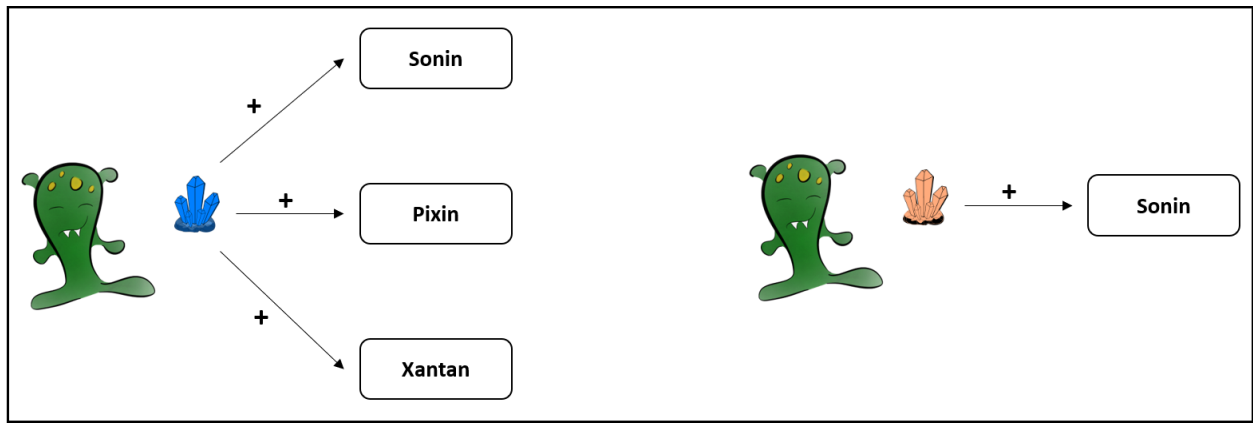
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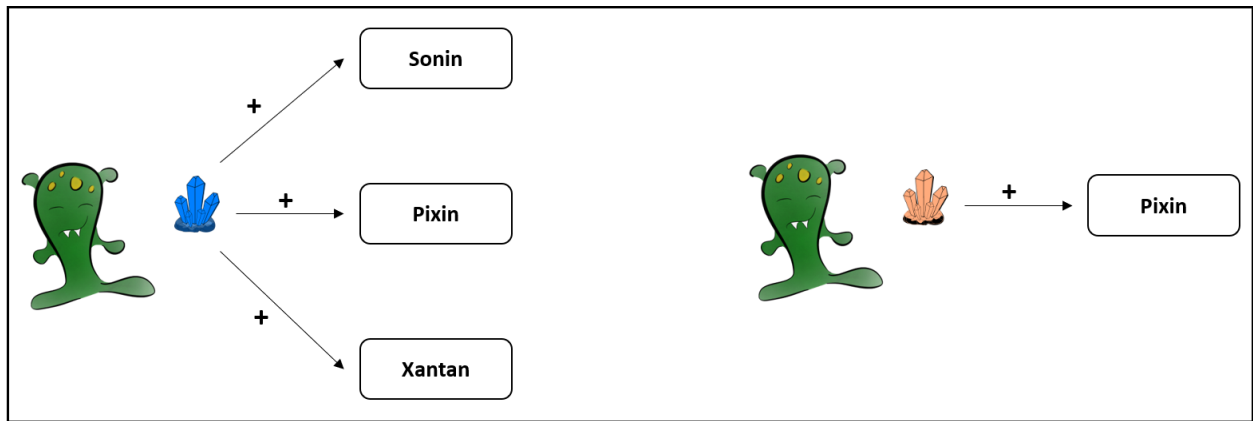
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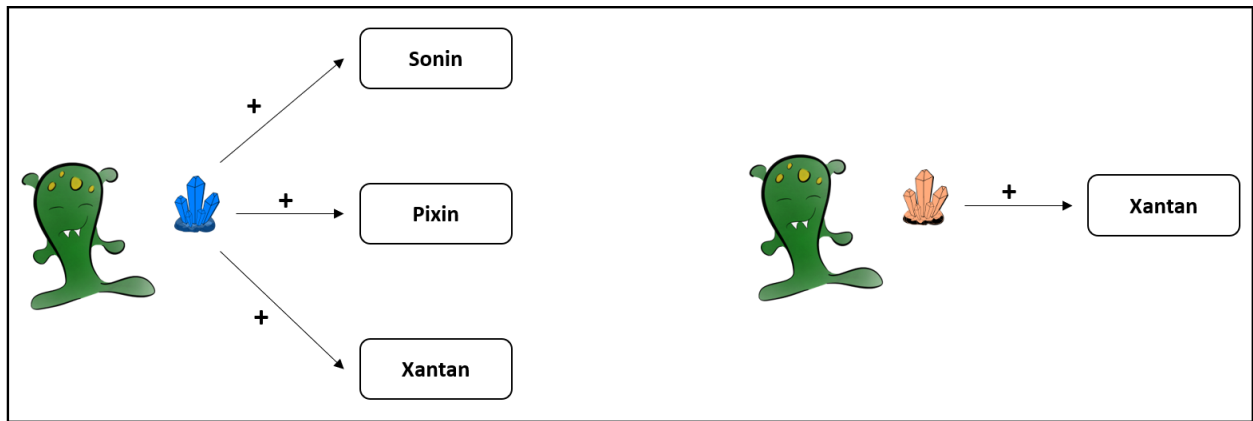
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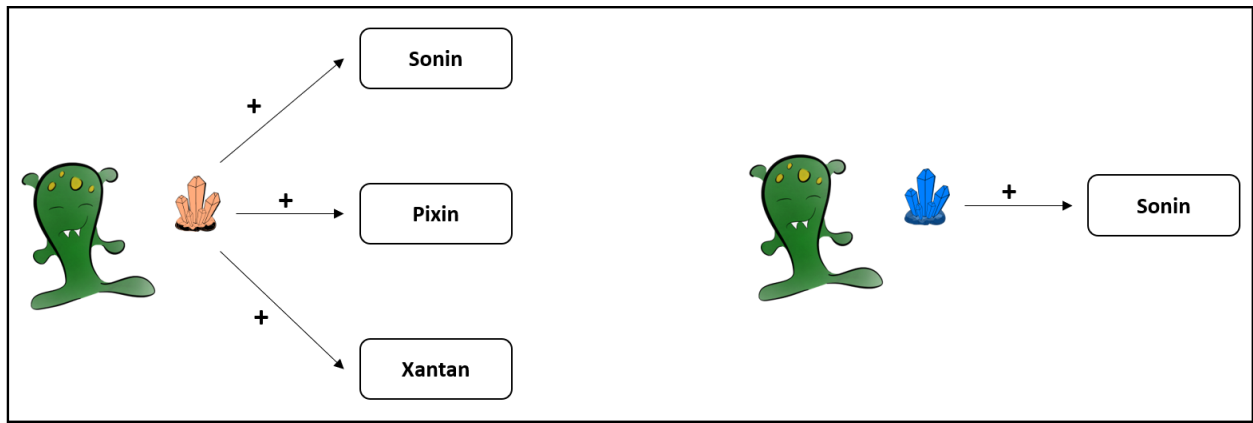
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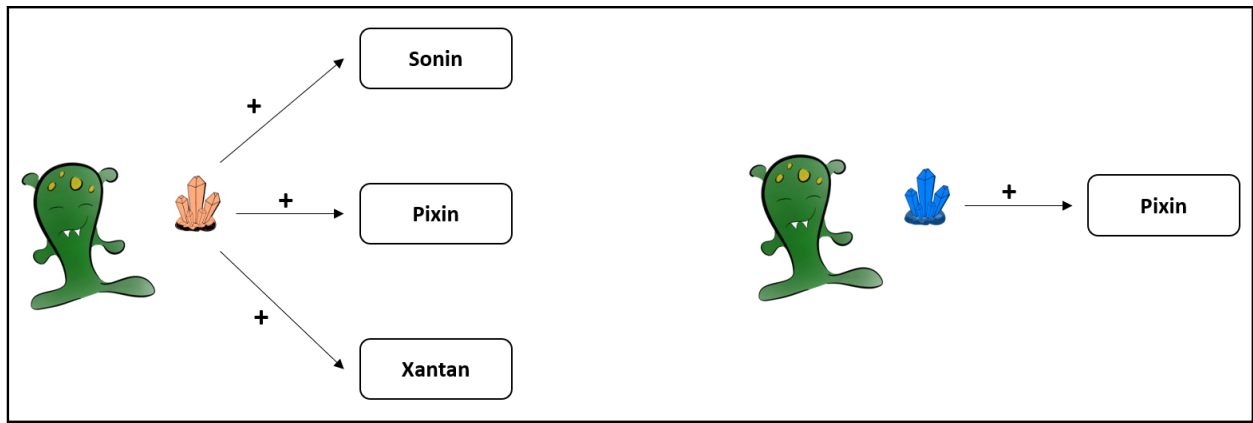
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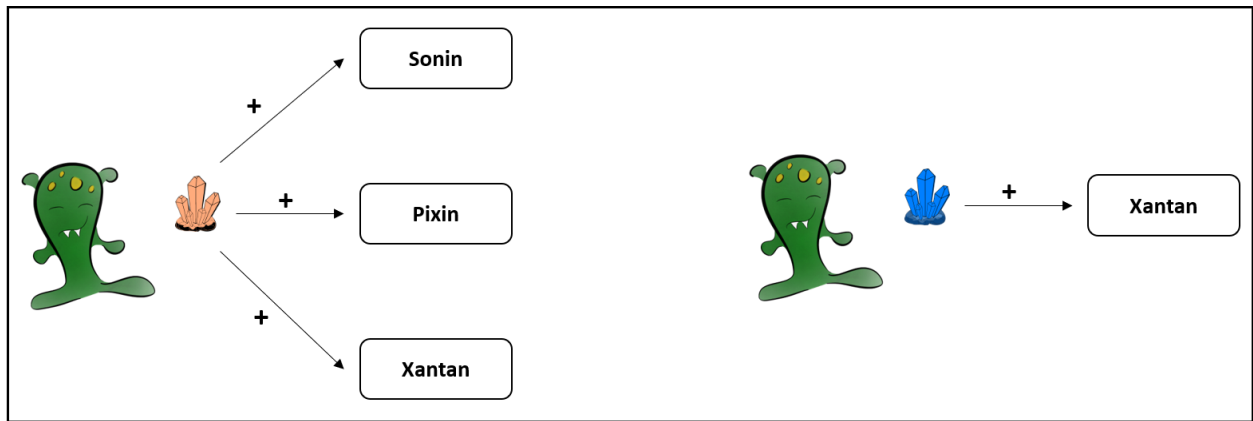
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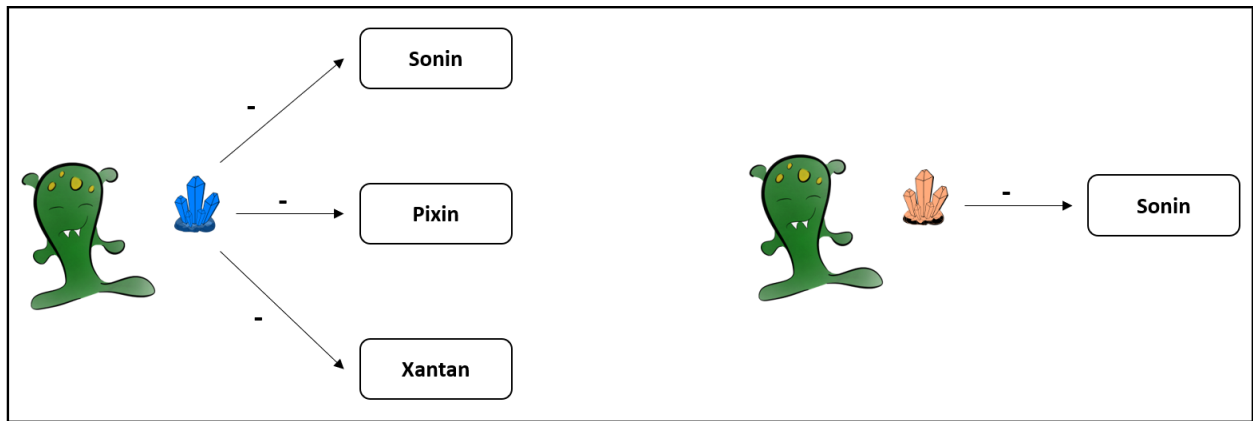
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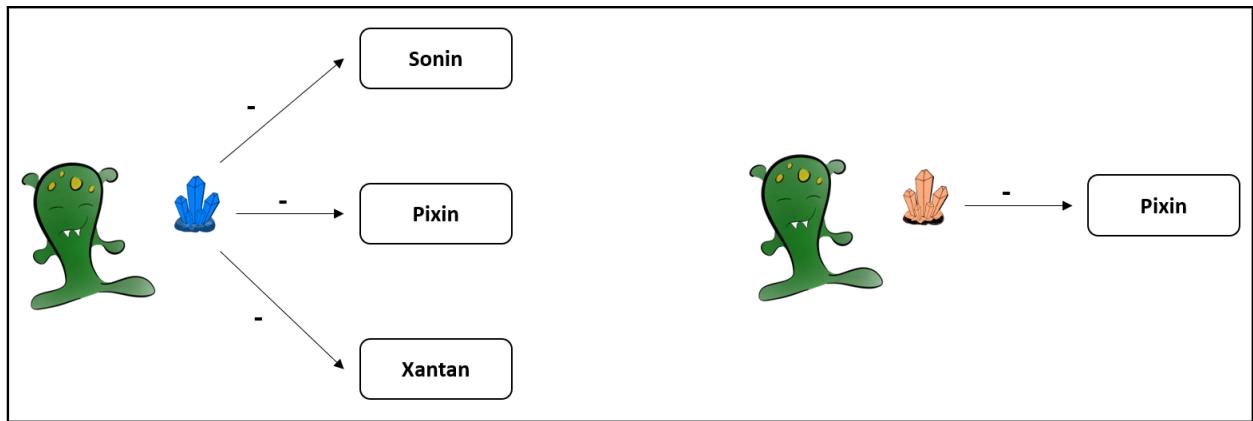
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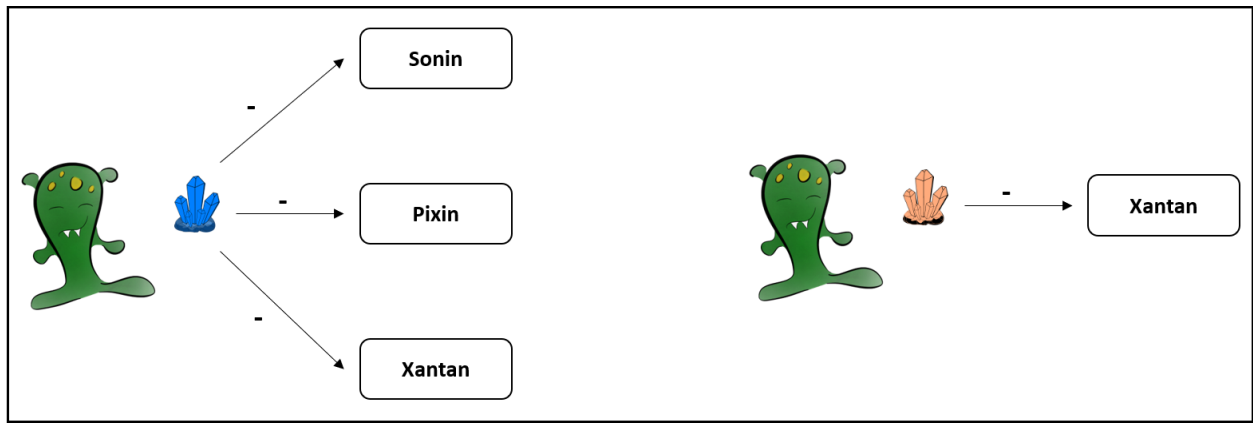
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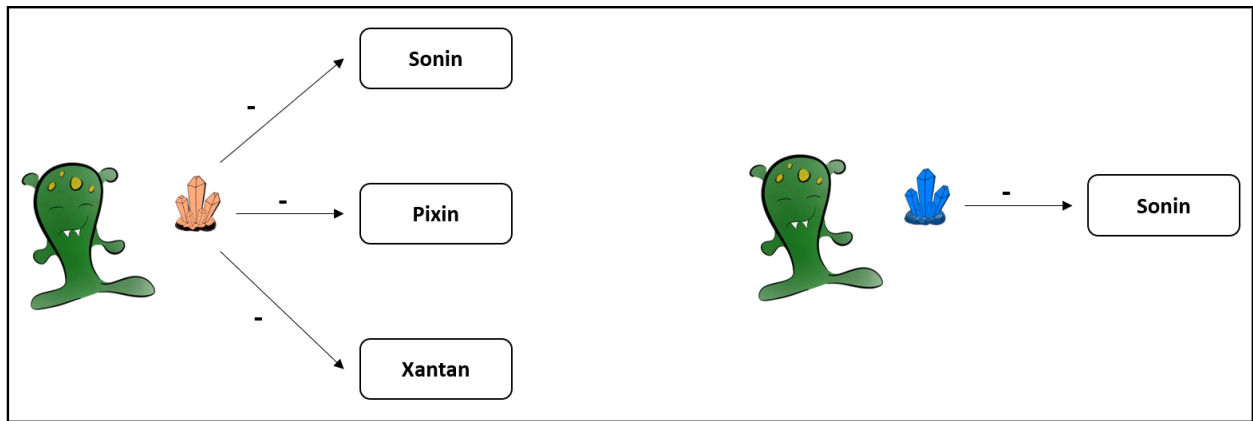
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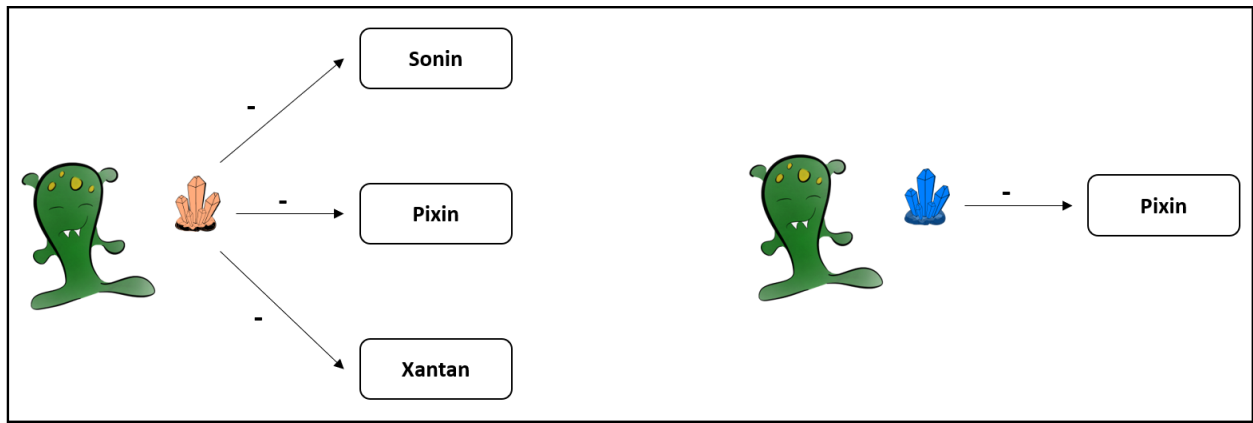
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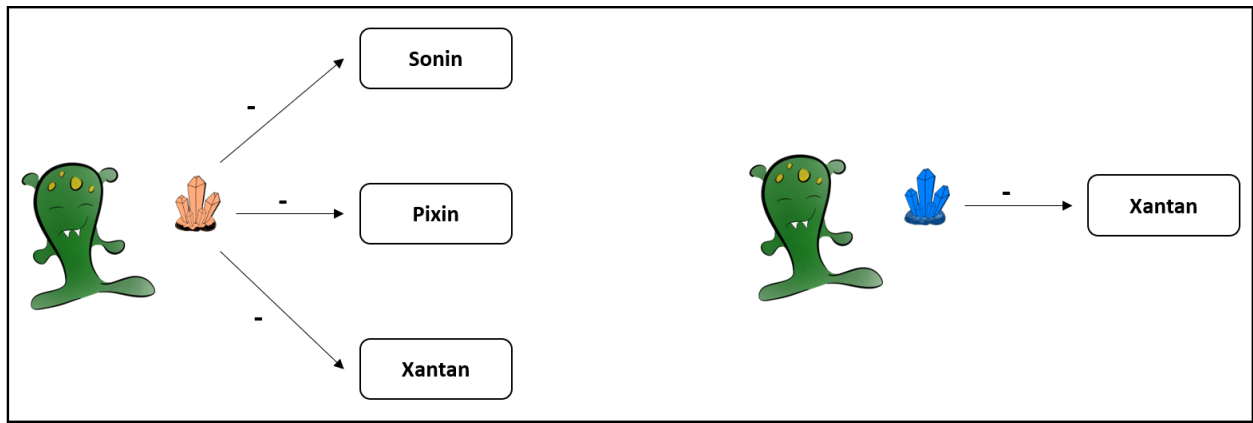
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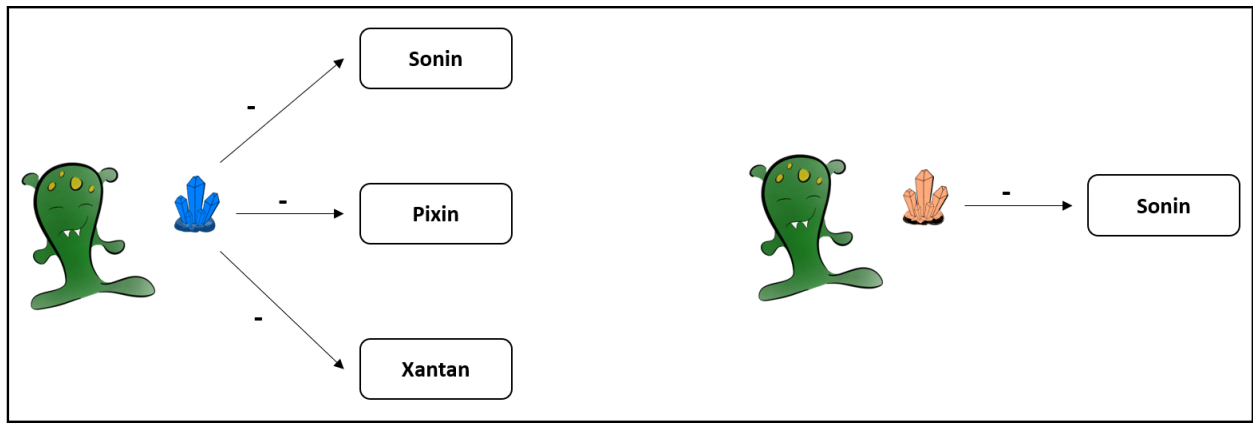
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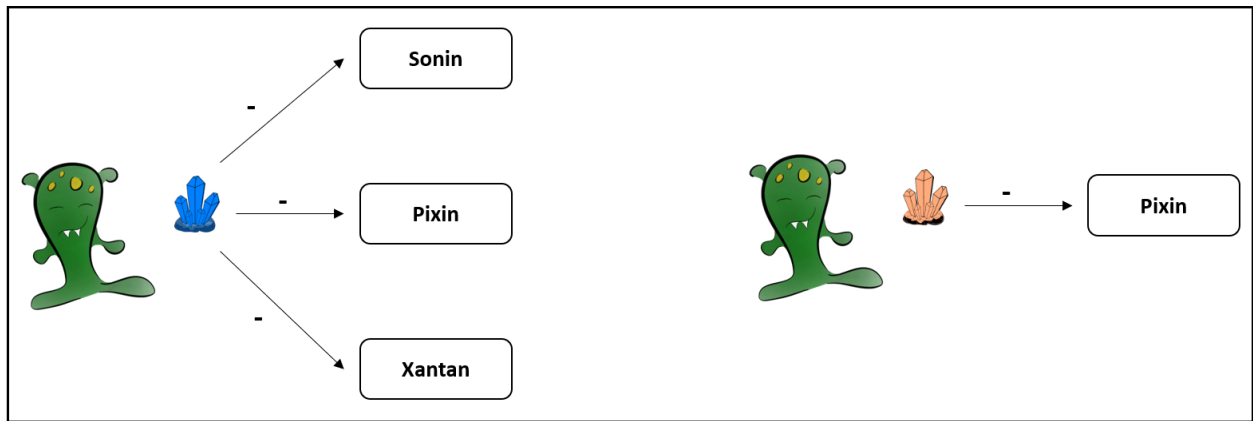
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According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

Please use the scale below to provide your answer.

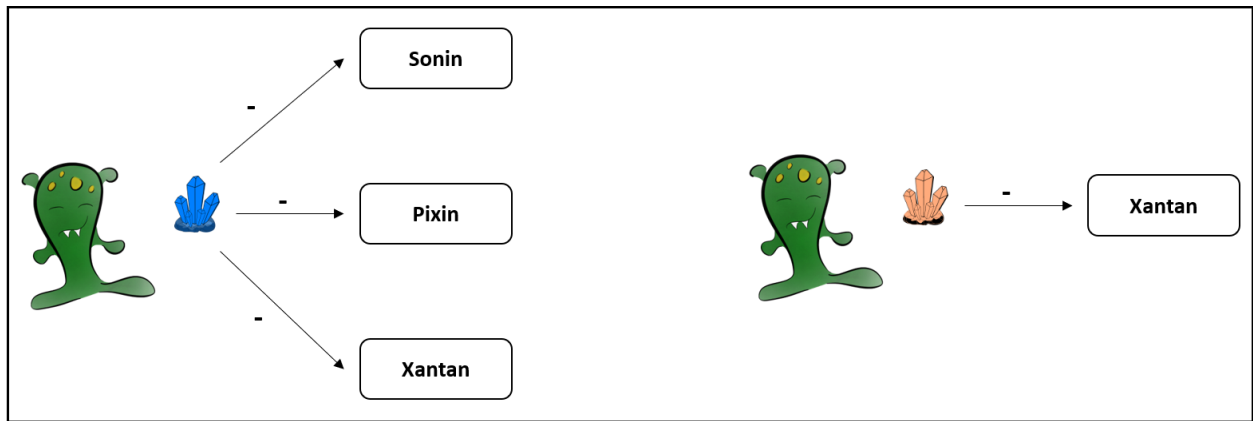
2.2.2.1.3.1 blue_third

Please read the following scenario:

A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to negative effects. There are two different types of crystals, blue and red.

Blue crystals possess the capacity to cause the body to decompose multiple healthy blood substances. Blue crystals can cause the body to decompose the blood substances Sonin, Pixin, and Xantan.

Red crystals possess the capacity to cause the body to decompose a single healthy blood substance. Red crystals can cause the body to decompose the blood substance Xantan.



We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Xantan. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

Please use the scale below to provide your answer.

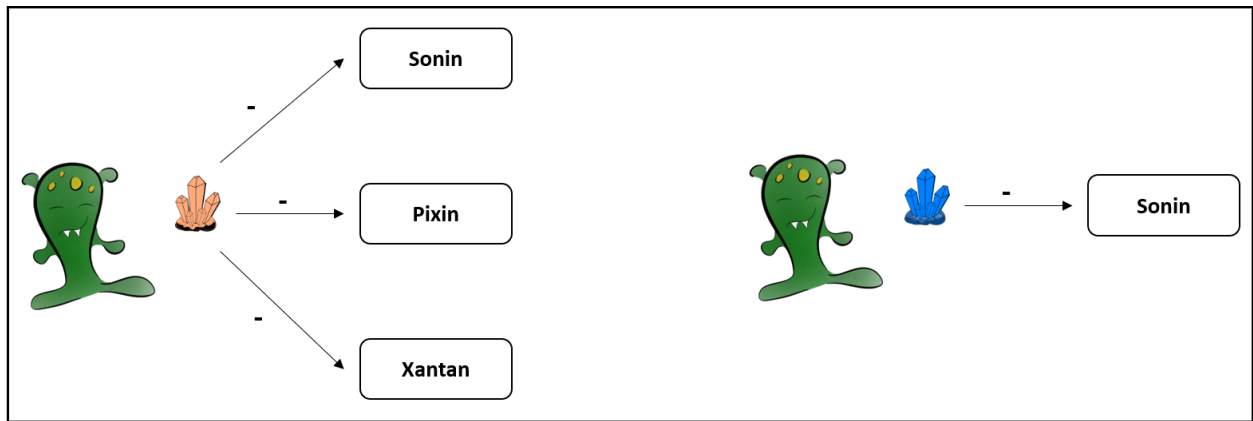
2.2.2.2.1.1 red_first

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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Sonin. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Sonin?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Sonin?

Please use the scale below to provide your answer.

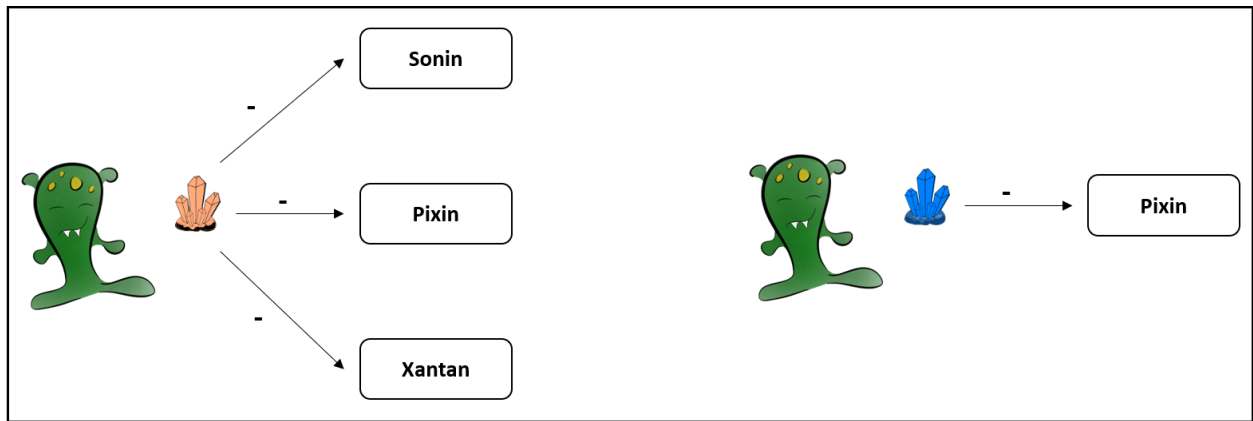
2.2.2.2.2.1 red_second

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A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to negative effects. There are two different types of crystals, blue and red.

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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Pixin. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

Please use the scale below to provide your answer.

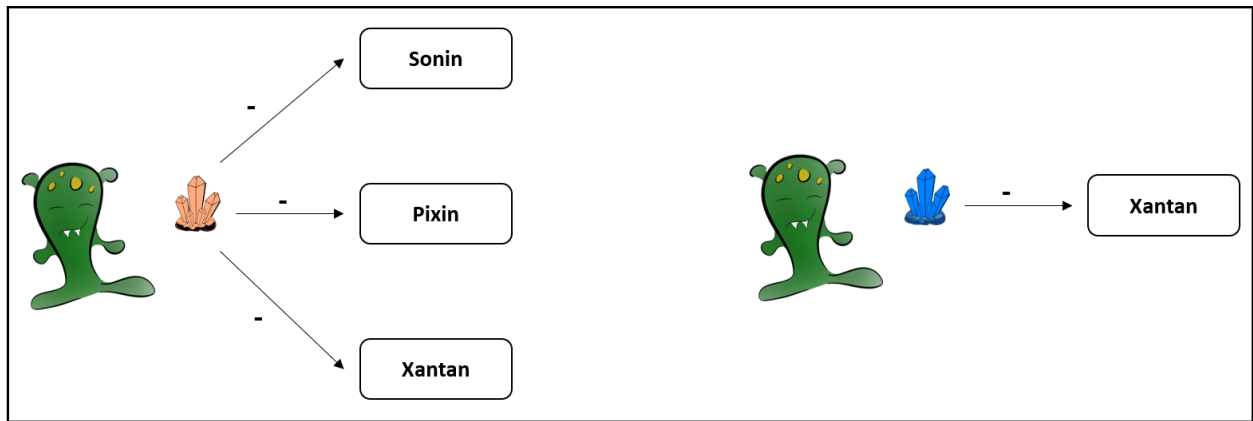
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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

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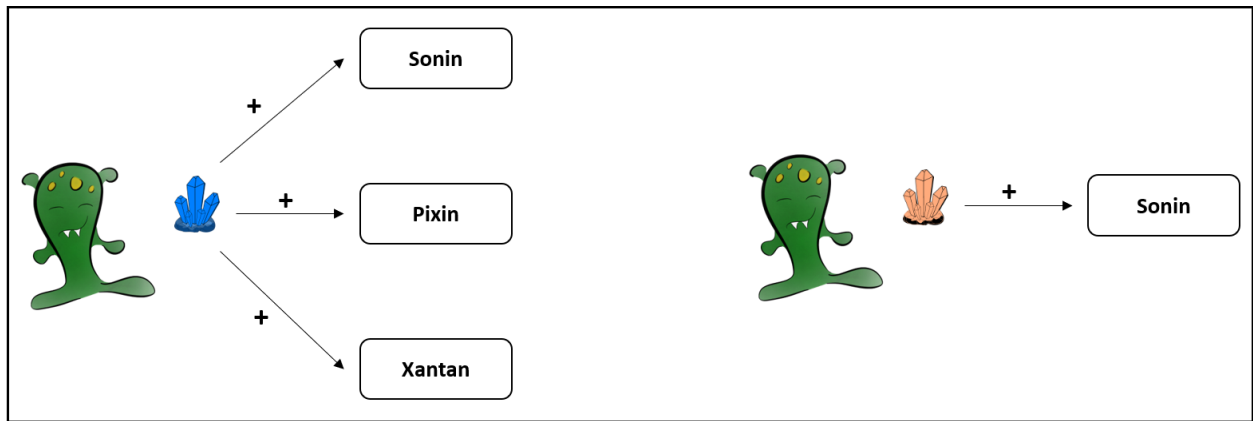
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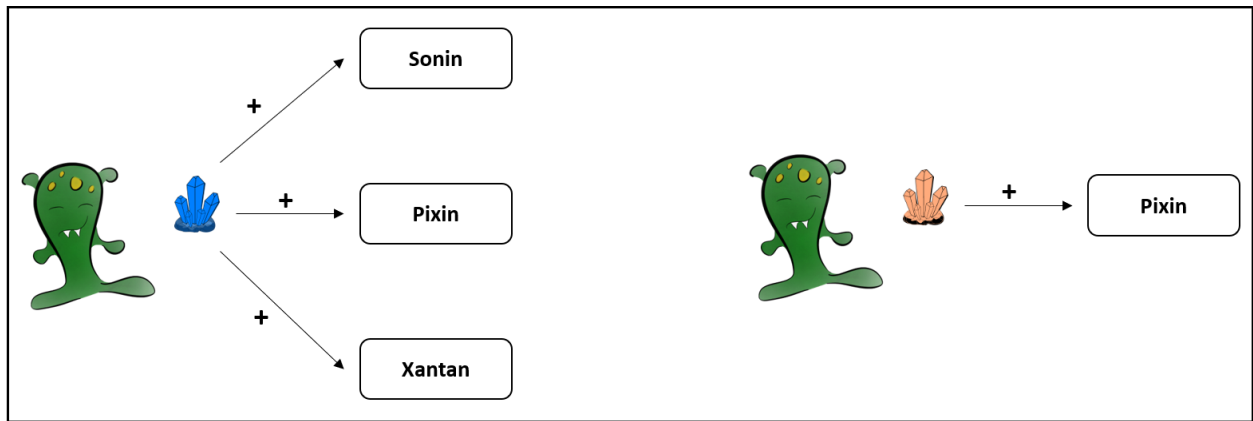
3.1.1.1.2.1 blue_second

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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Pixin. To express your intuition about the causal strength, please answer the following questions:

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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Pixin?

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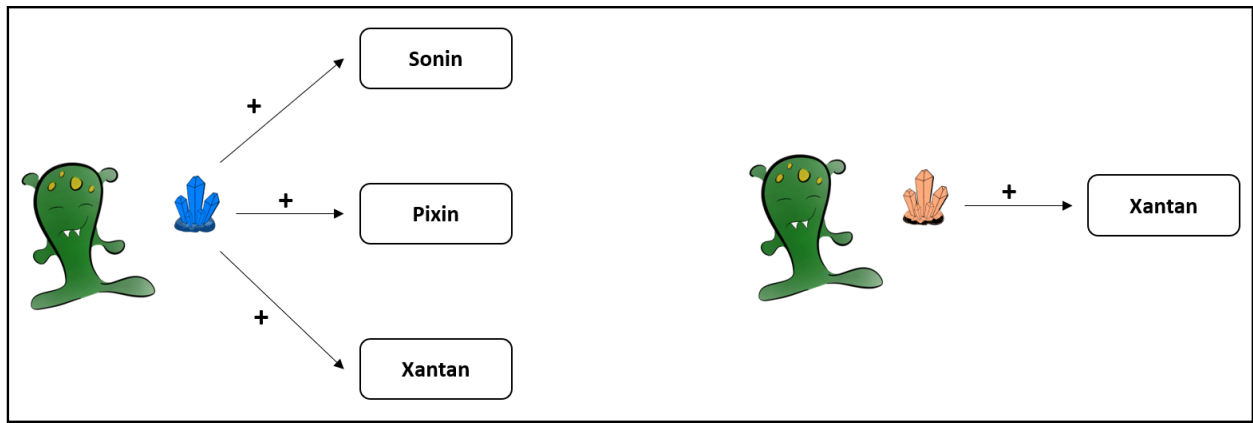
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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Xantan. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to produce the blood substance Xantan?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Xantan?

Please use the scale below to provide your answer.

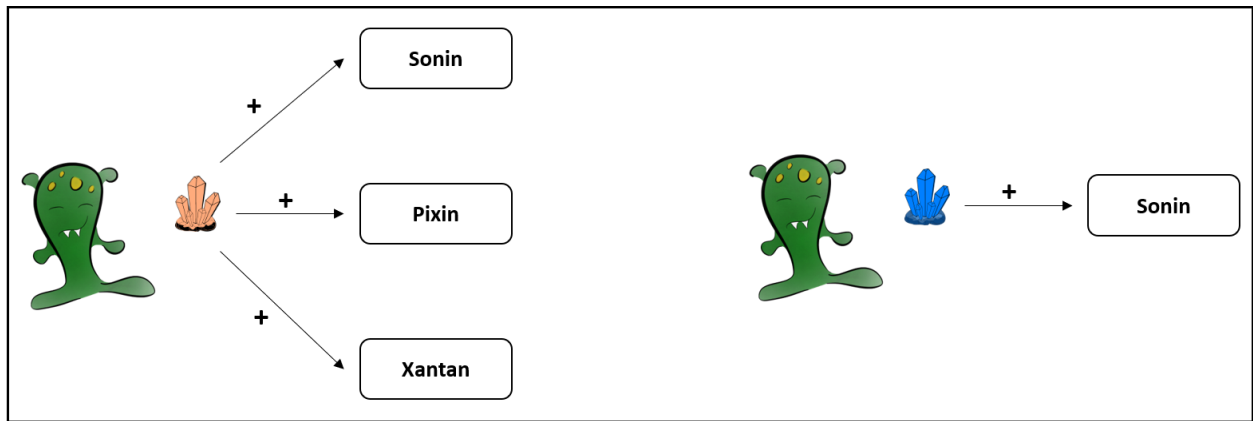
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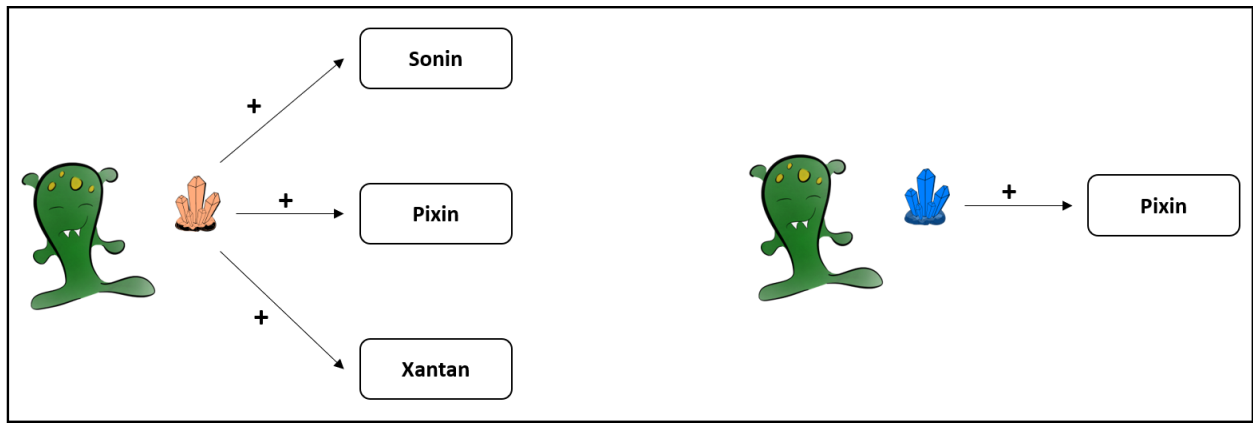
3.1.1.2.2.1 red_second

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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to produce the blood substance Pixin?

Please use the scale below to provide your answer.

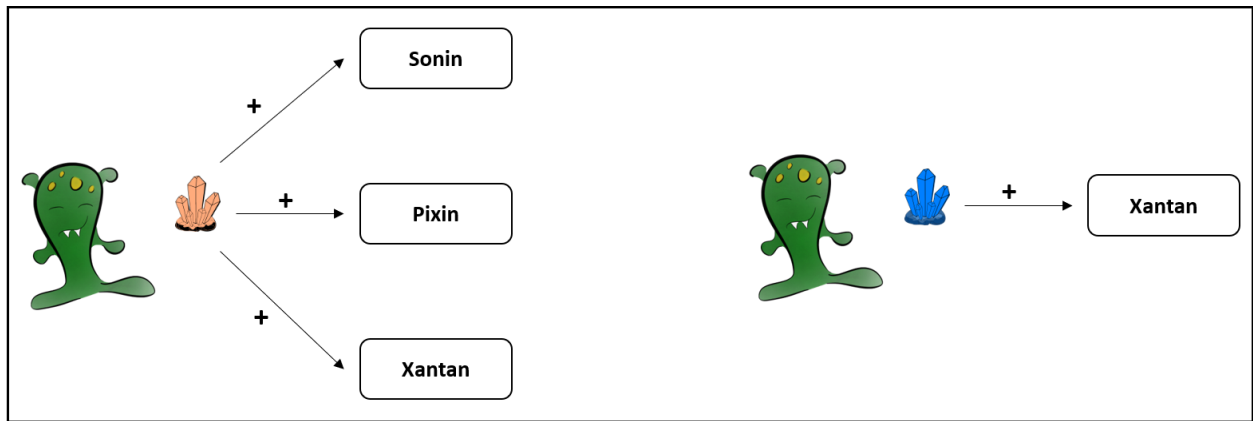
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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to produce the blood substance Xantan?

Please use the scale below to provide your answer.

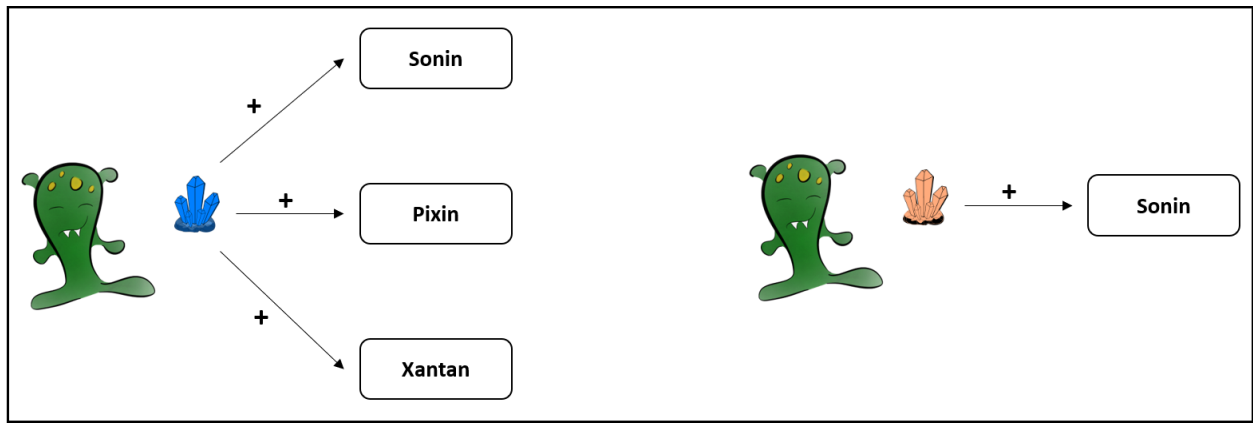
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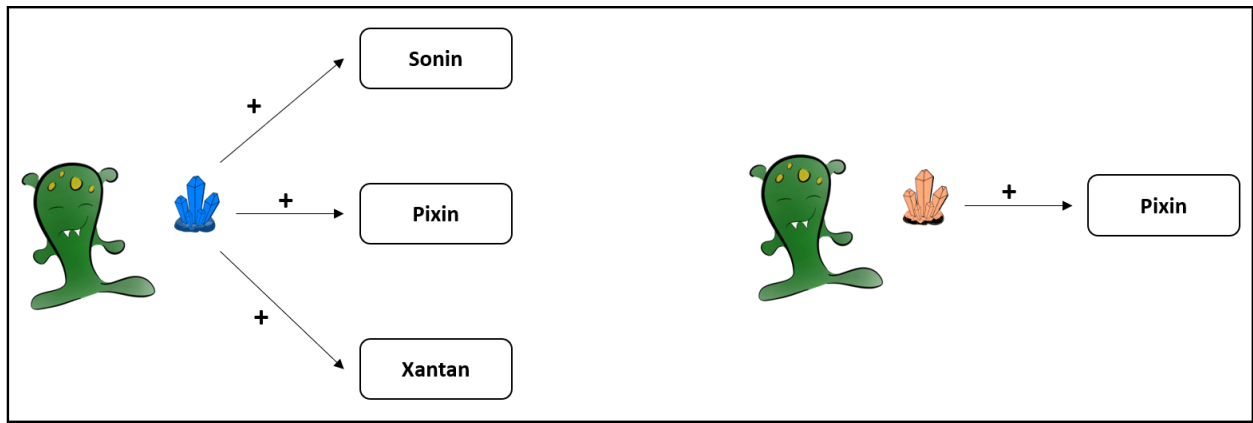
3.1.2.1.2.1 blue_second

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According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Pixin?

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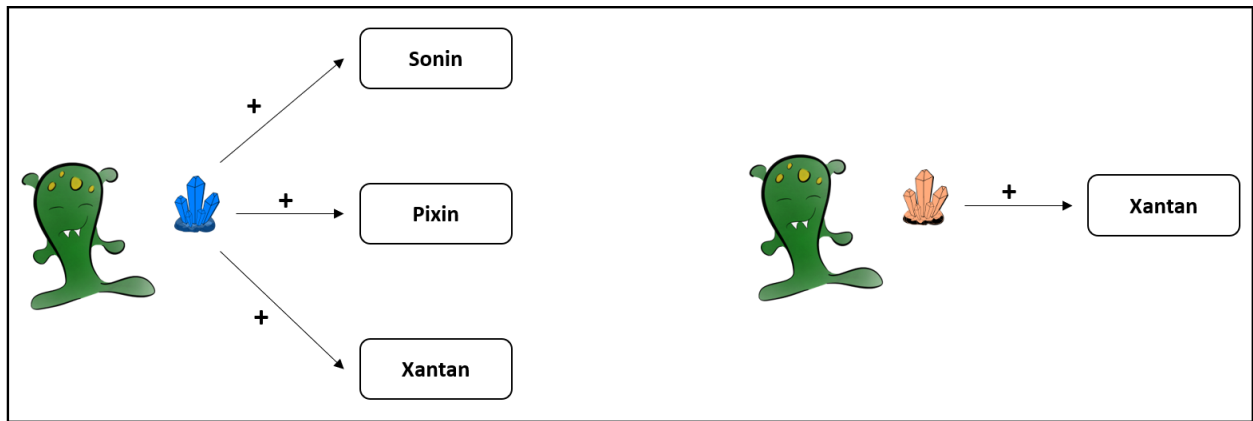
3.1.2.1.3.1 blue_third

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We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to produce the blood substance Xantan. To express your intuition about the causal strength, please answer the following questions:

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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to produce the blood substance Xantan?

Please use the scale below to provide your answer.

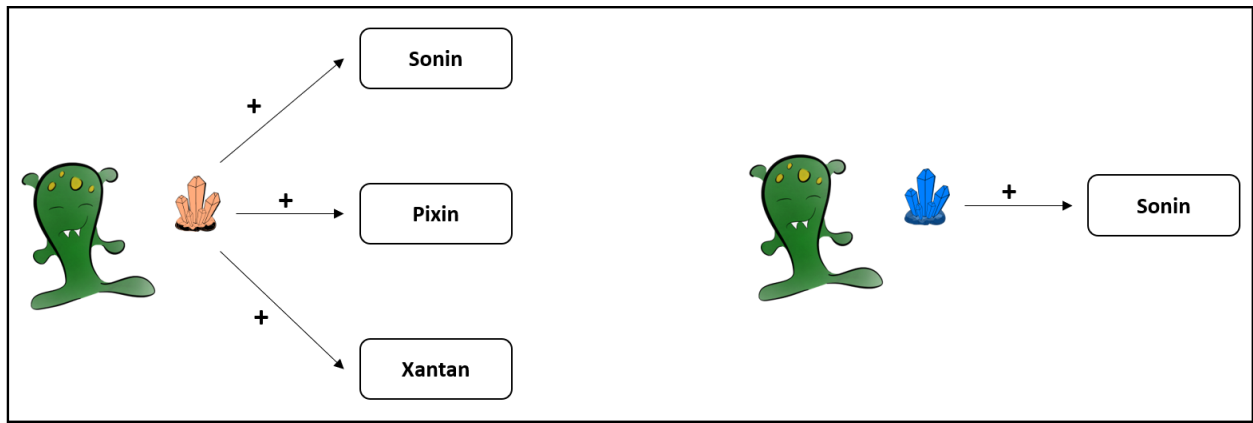
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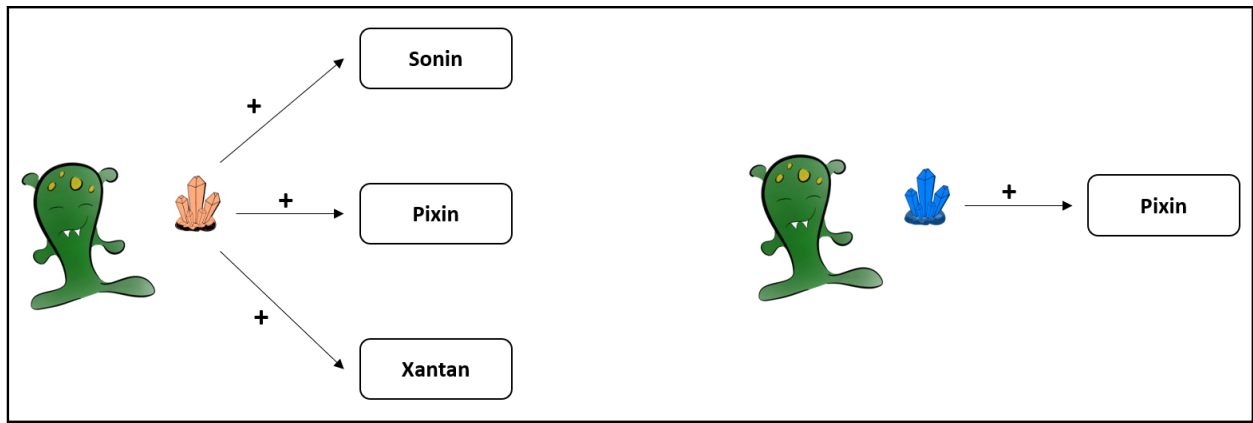
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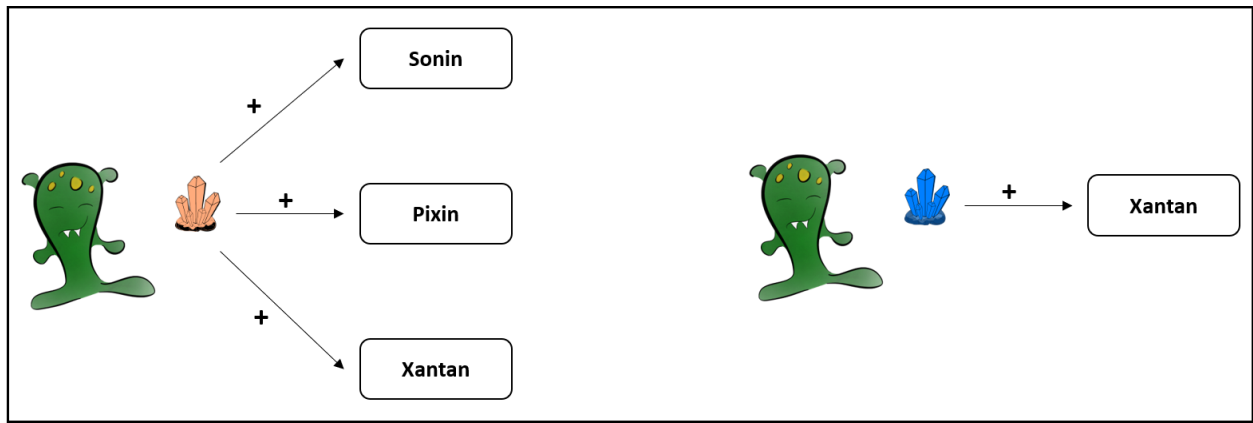
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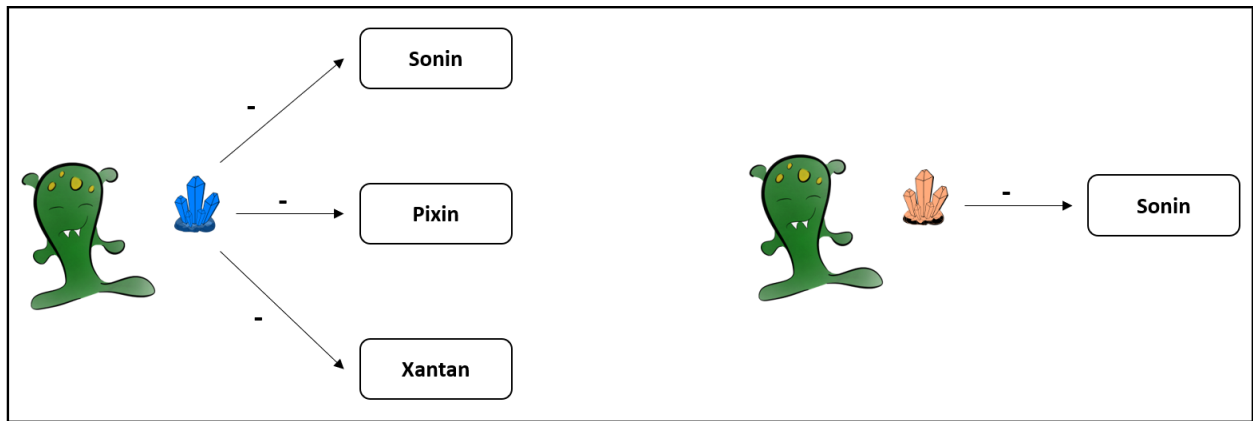
3.2.1.1.1.1 blue_first

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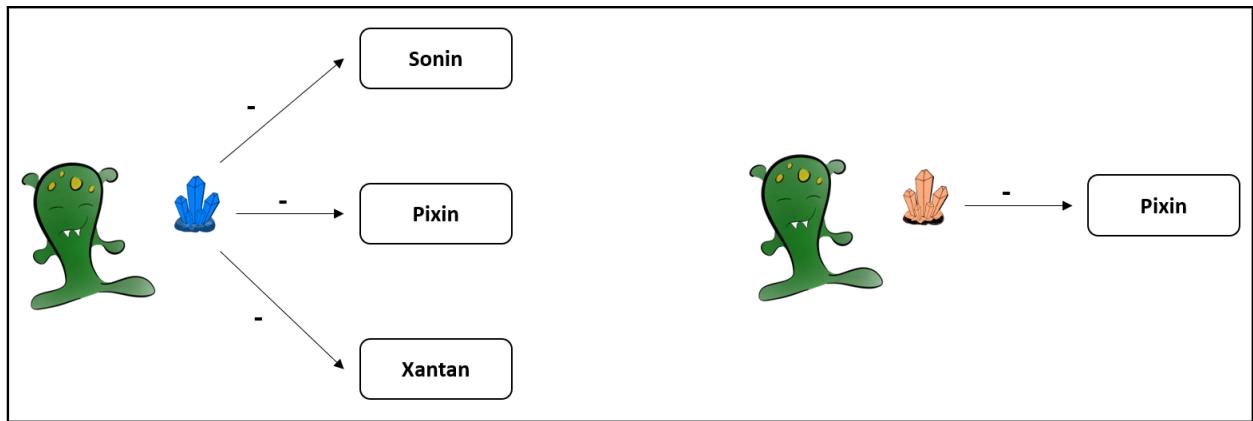
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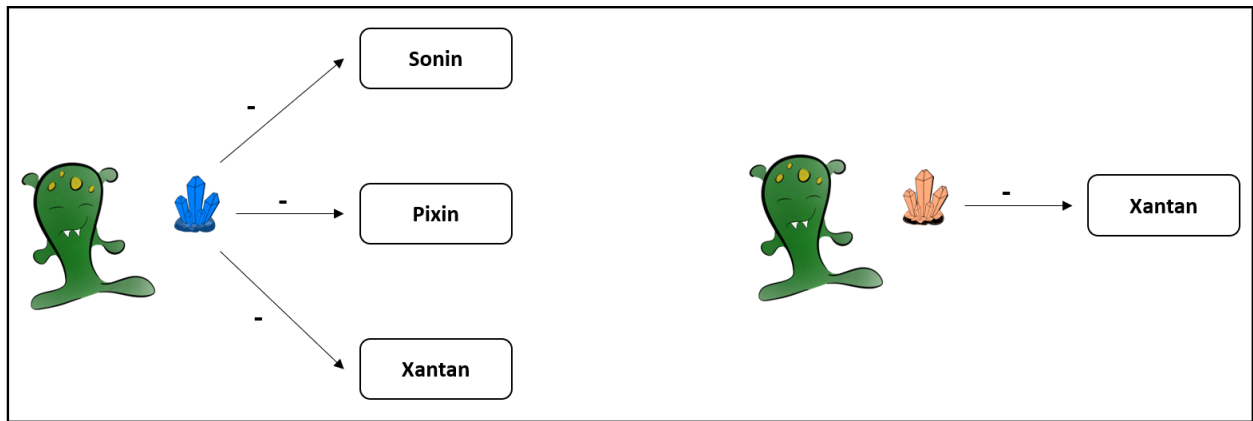
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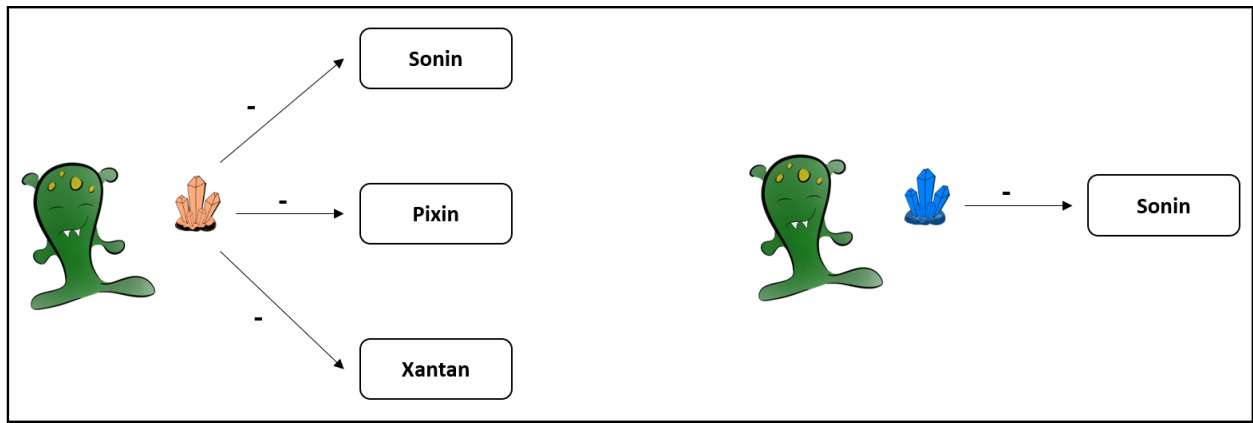
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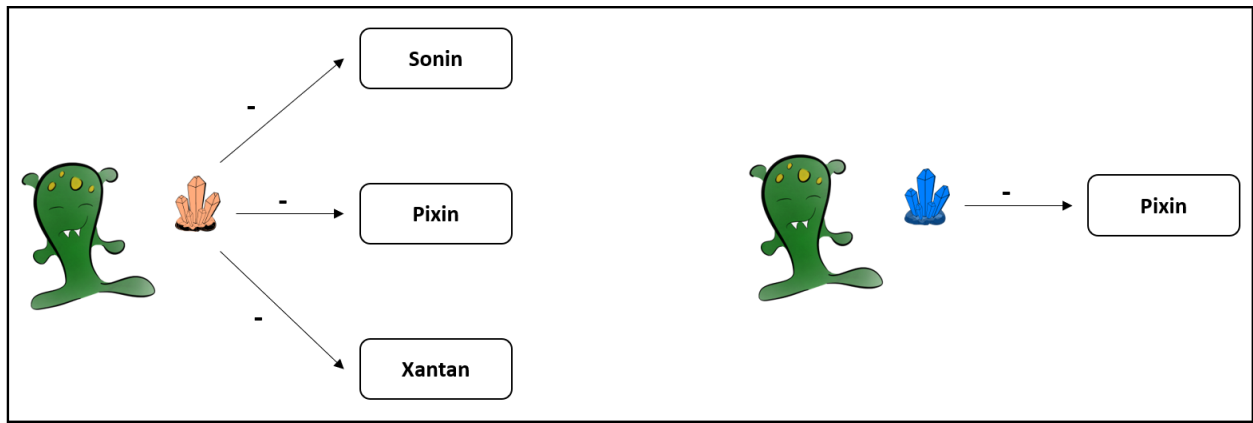
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Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

Please use the scale below to provide your answer.

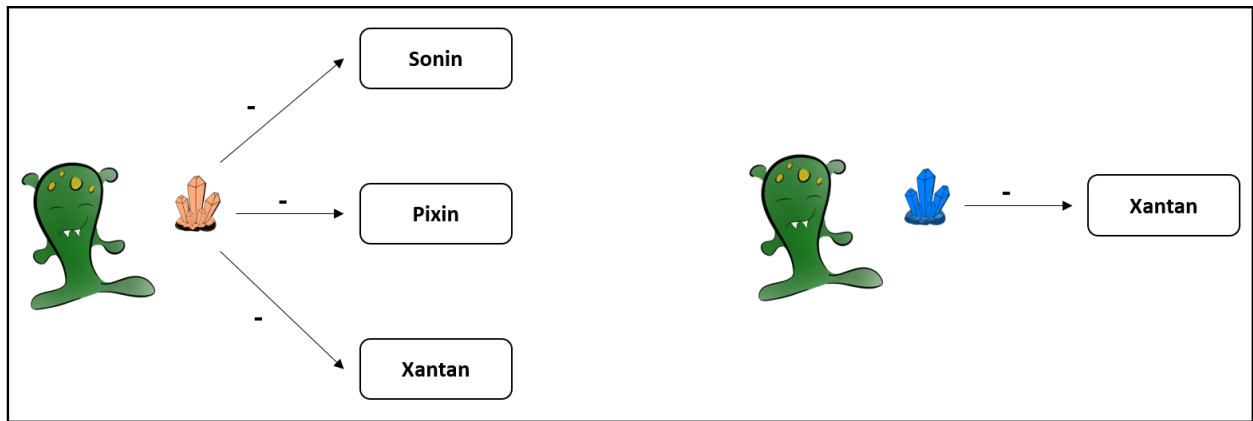
3.2.1.2.3.1 red_third

Please read the following scenario:

A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to positive effects. There are two different types of crystals, blue and red.

Red crystals possess the capacity to cause the body to decompose multiple unhealthy blood substances. Red crystals can cause the body to decompose the blood substances Sonin, Pixin, and Xantan.

Blue crystals possess the capacity to cause the body to decompose a single unhealthy blood substance. Blue crystals can cause the body to decompose the blood substance Xantan.



We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Xantan. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

Please use the scale below to provide your answer.

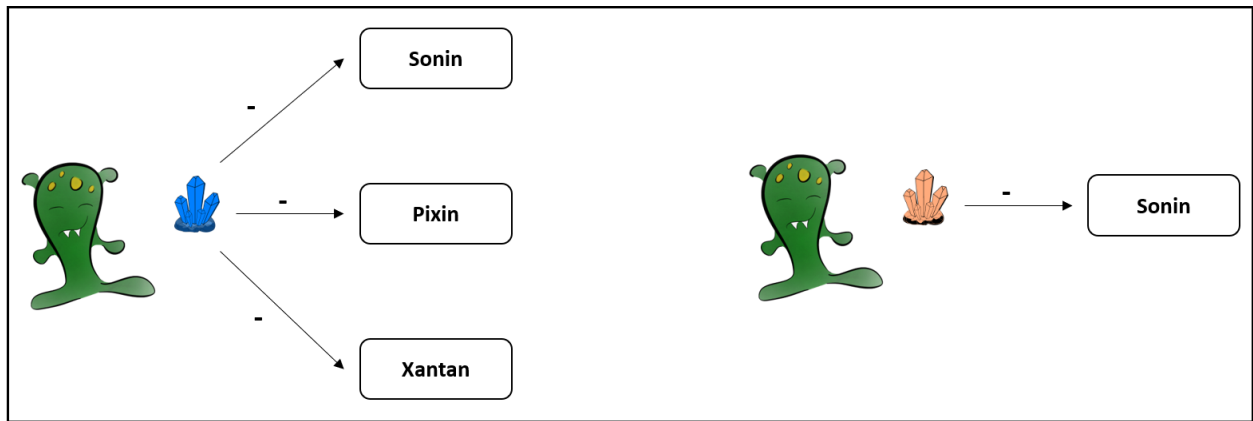
3.2.2.1.1.1 blue_first

Please read the following scenario:

A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to negative effects. There are two different types of crystals, blue and red.

Blue crystals possess the capacity to cause the body to decompose multiple healthy blood substances. Blue crystals can cause the body to decompose the blood substances Sonin, Pixin, and Xantan.

Red crystals possess the capacity to cause the body to decompose a single healthy blood substance. Red crystals can cause the body to decompose the blood substance Sonin.



We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Sonin. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Sonin?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Sonin?

Please use the scale below to provide your answer.

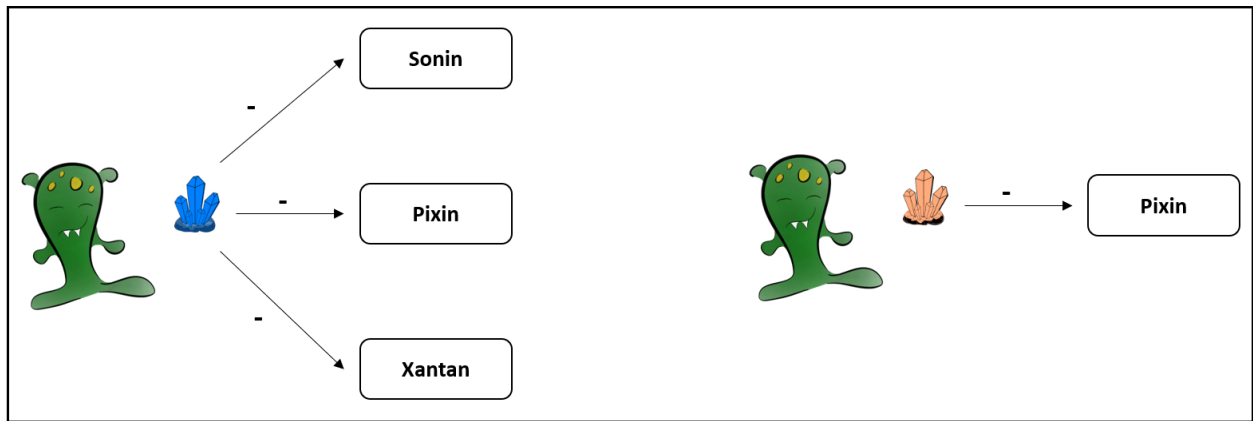
3.2.2.1.2.1 blue_second

Please read the following scenario:

A remote planet of our galaxy is inhabited by tiny Aliens, called Morganians. The regular diet of Morganians consists of plants of different types. From time to time, however, Morganians feel the urge to seek and swallow sweet crystals, which can also lead to negative effects. There are two different types of crystals, blue and red.

Blue crystals possess the capacity to cause the body to decompose multiple healthy blood substances. Blue crystals can cause the body to decompose the blood substances Sonin, Pixin, and Xantan.

Red crystals possess the capacity to cause the body to decompose a single healthy blood substance. Red crystals can cause the body to decompose the blood substance Pixin.



We now would like to get to know your intuition about the causal strength with which eating the different crystals causes the body to decompose the blood substance Pixin. To express your intuition about the causal strength, please answer the following questions:

According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

Please use the scale below to provide your answer.

According to your intuition, if an alien eats a blue crystal, how strongly will this stimulate its body to decompose the blood substance Pixin?

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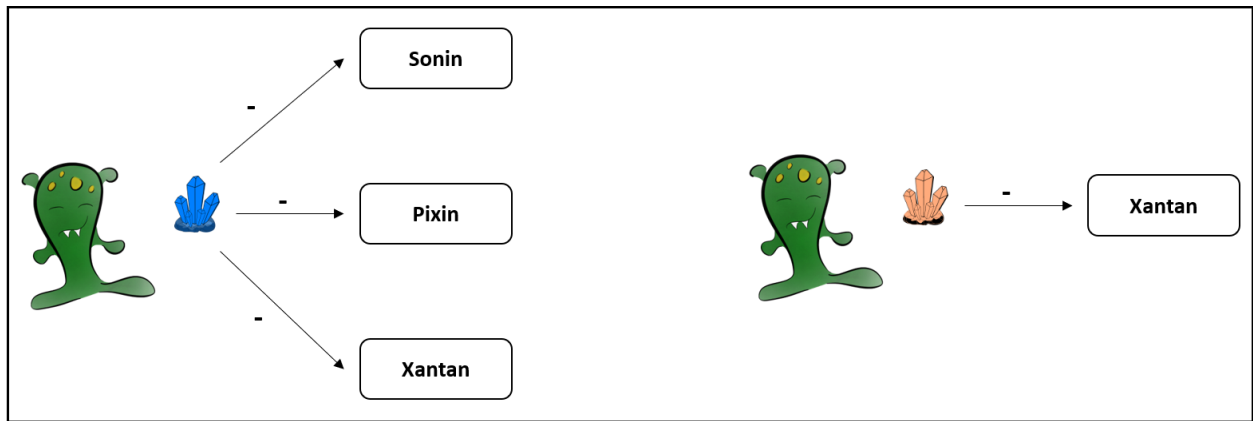
3.2.2.1.3.1 blue_third

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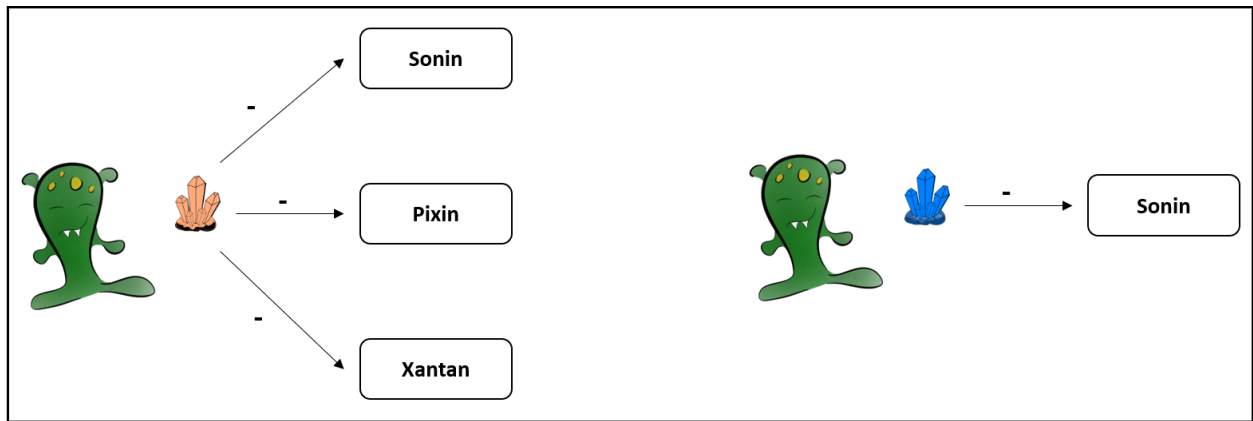
3.2.2.2.1.1 red_first

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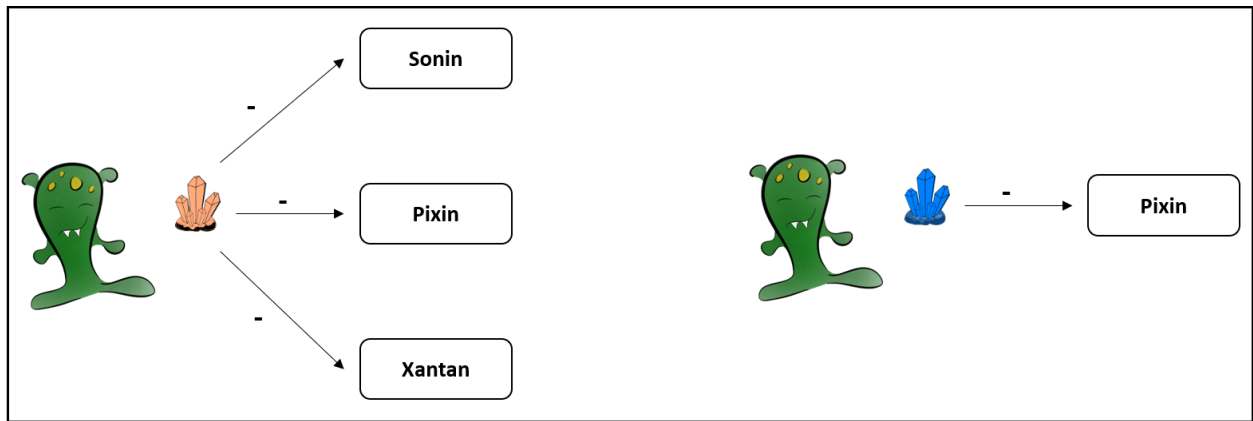
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Red crystals possess the capacity to cause the body to decompose multiple healthy blood substances. Red crystals can cause the body to decompose the blood substances Sonin, Pixin, and Xantan.

Blue crystals possess the capacity to cause the body to decompose a single healthy blood substance. Blue crystals can cause the body to decompose the blood substance Pixin.



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Please use the scale below to provide your answer.

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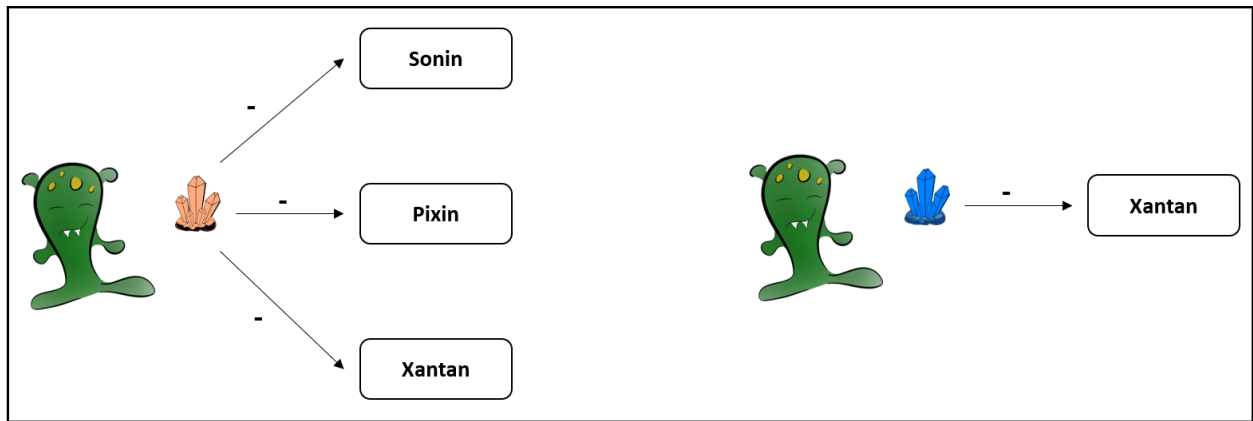
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According to your intuition, if an alien eats a red crystal, how strongly will this stimulate its body to decompose the blood substance Xantan?

Please use the scale below to provide your answer.

4 Effect_valence_check

On the previous screen you've learned about crystals that can have an influence on different blood substances in the aliens' body.

Is the influence of these crystals good (healthy) or bad (unhealthy) for the aliens?

- the crystals have a positive (healthy) influence
- the crystals have a negative (unhealthy) influence

5 Demographie

Thank you very much for your effort, you are almost done with the survey. Please provide the following additional information:

Please indicate with which gender you identify.

- male
- female
- other
- prefer not to say

How old are you?

In the text field below you can report any errors that you came across during the study (e.g., technical issues, layout problems, spelling errors, errors in program logic and flow, etc.).

6 Endseite

Thank you for taking part in this study!

The aim of this experiment is to find out more about how people reason about causality. If you are interested in further details or if you have any questions or comments concerning the experiment, feel free to contact me (Simon Stephan) under sstepha1@uni-goettingen.de

To ensure you receive your reward, please click on the following link to return to the Prolific website:

[Link to Prolific](#)
