

#Jenny



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Cool! I'am really happy

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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Natural Selection Simulation

Exploration

1. What are some interesting things that you have control over in the simulation?
2. What happens in the bunny population if a friend is never added? Why is this?
3. What happens when you add a friend?
4. What happens to the population if the food is super abundant and there are no predators?
5. What is a genetic mutation? Write the definition.

Experiment A

- Add a friend and a **brown fur** mutation to the bunny population.
- Add the (natural) selection factor* of **wolves** after F3 offspring appear.

Experiment B

- Add a friend and a **brown fur** mutation to the bunny population.
- Add the (natural) selection factor of **food** after F3 offspring appear.

Experiment C

- Add a friend and a **long teeth** mutation to the bunny population.
- Add the (natural) selection factor of **wolves** after F3 offspring appear.

Experiment D

- Add a friend and a **long teeth** mutation to the bunny population.
- Add the (natural) selection factor of **food** after F3 offspring appear.

Experiment E

- Repeat Experiment A in the Arctic Environment.

Experiment F

- Repeat Experiment B in the Arctic Environment.

Experiment G

- Repeat Experiment C in the Arctic Environment.

Experiment H

- Repeat Experiment D in the Arctic Environment.

Results

Experiment	Friend [X]	Random [X]	Single [X]	Constant on population changed during simulation
A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Conclusions

6. Define variation. What genetic variations are presented during this simulation?
7. Define adaptation. Give examples when an adaptation is beneficial to the bunnies.
8. What are 3 other (natural) selection factors which effect animal populations in the real world?

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