NICE GENES!

a podcast by

Genome British Columbia

learn-a-long

Scan the QR code to listen as you learn about the wild world of genomics.

Each episode includes a free learn-a-long resource for you to follow and colour along with at home, in school or on the go!

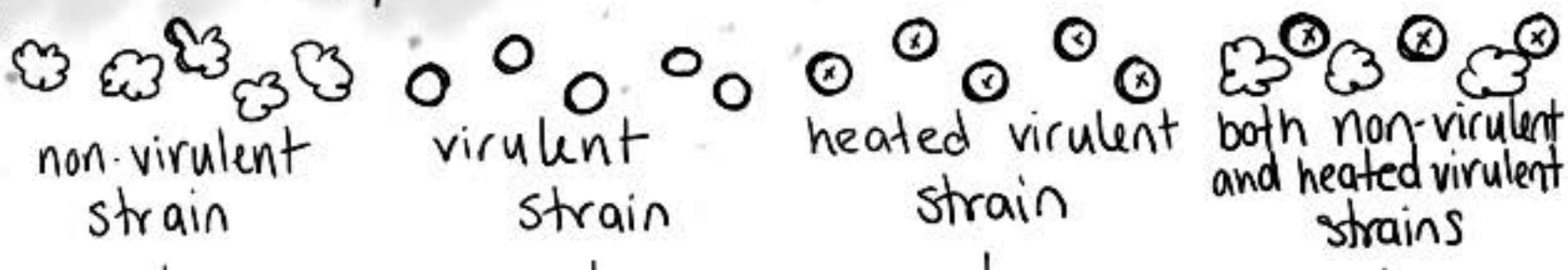
Season 3

episode 1

genes JUMP

scan me to listen

Griffith's experiment



Based on the results of Griffith's experiment, can you explain the Transforming Principle?



What evidence is there in the human body of horizontal gene transfer?

On the next page, colour in all of the cnidaria Fred could 'steal' stinging cells from.



This is Fred

Nudibranchs (or sea slugs) are a group of soft-bodied marine gastropod mollusc that shed their shells after the larval stage. No wonder they need to find other sneaky ways to defend themselves!

IS Fred actually stealing genes?

circle one: YES NO

Portuguese Man O'war
Physalia physalis



Moon Jelly
Aurelia aurita

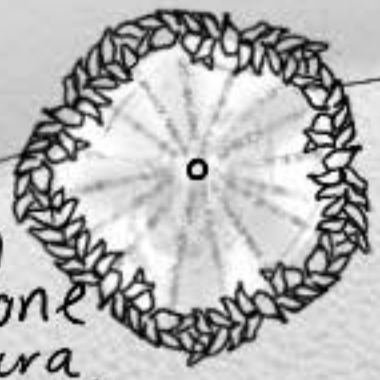


Immortal Jellyfish
Turritopsis dohrnii

Learn more about the Immortal Jellyfish with Nice Genes! Season 1 Episode 5, all about heroic mutations

Australian Box Jelly
Chironex fleckeri





Giant Green Sea Anemone
Anthopleura xanthogrammica

Staghorn coral
Acropora muricata

CNIDARIA

phylum under kingdom Animalia

"stinging needles"

What do scientists believe is the most likely mechanism by which white flies obtained a plant gene?

circle one:

a) fungus
b) virus
c) germs
d) saliva



Explain how white flies affect and don't affect humans in regards to health, the economy and food security

a) HEALTH:

b) ECONOMY:

c) FOOD SECURITY:

What plant, with the help of scientists, could be the answer to the white fly issues? Explain how.

Do you think this use of genetic technology is warranted? Circle one: YES NO

Explain your opinion:

Under what circumstances would your opinion change?