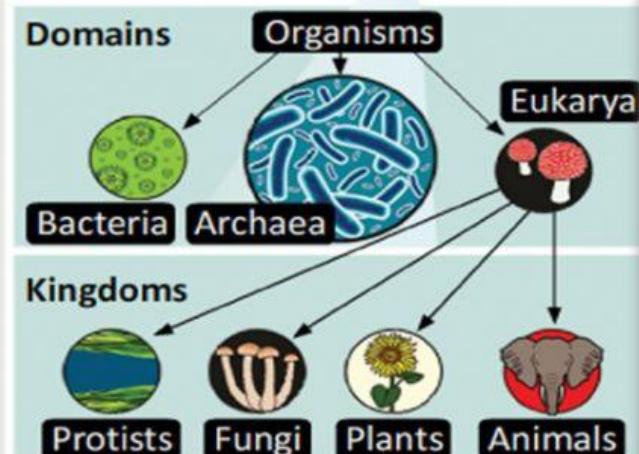


Name _____

Theme: Culture Corner

Carl Woese

The Scientist behind
A New Domain
of Life



https://youtu.be/C_o1xtBUbms

bacteria

ribosomes

nucleus

genetic makeup

- a microorganism
- an organism's genetic information
- cell organelles that contain genetic information and help us make proteins
- a part of a cell where the DNA is contained (in eukaryotes)

environmental
specialises

biologist
clone

pollutants
thanks

age
however

Valentina Obodovskaya is a(n) 1) from Northern Kazakhstan. She was born in the early 1940s, and went on to become a plant biologist who 2) in breeding trees.

In 2017, at the 3) of 75, she won the Online-EXPO competition, which focused on energy efficiency and

4) protection. She did so by creating a special variety of the poplar tree. The tree normally produces a white fluff which gets blown into the air and can be a problem for people with allergies. 5) , through careful breeding and selection she managed to eliminate this trait, which means that poplar trees are no longer being cut down in cities.

6) to Ms Obodovskaya, the quality of life in Nur-Sultan has been improved by the presence of these unique poplar trees.

They clean more 7) from the air than other types of trees, and produce several times more oxygen than similar trees, such as the spruce. What's more, she is hopeful that she will be able to 8) them in the future, and therefore they might be efficiently integrated into urban environments.