

## Myth busters

### **Part 1 : Extract of the movie Jurassic Park :**

Lien vers la vidéo Youtube : <https://www.youtube.com/watch?v=h58IRIVHhGc>

- 1) What is the purpose of Jurassic Park scientists ?
- 2) Where does the DNA come from ?
- 3) Where did the scientists find dinosaur blood ?
- 4) How can dinosaur blood be preserved ?
- 5) Why can't the dinosaur's DNA be directly used ?
- 6) How can Jurassic Park scientists see the gaps in the DNA sequence ?
- 7) How do Jurassic Park scientists complete the DNA ?
- 8) What parts of the video seem realistic to you ? What's pure science fiction ? What's partly true ?

### **Part 2 : Jurassic Park : what is true ?**

Video <https://www.youtube.com/watch?v=GyHUTSrzKNY>

#### **A) Can we resurrect species by cloning ?** 5:11- 10:10

- Q1) Cite two examples of extincted animals that could be resurrected :
- Q2) What do you need to make a clone ?
- Q3) What's the first animal cloned ?
- Q4) Why is cloning of extinct animals incredibly difficult ?
- Q5) How must DNA be stored to be preserved ?
- Q6) Buttercup was a female mammoth. Why would the cloning of Buttercup be possible ?
- Q7) Why would it be easier to clone a Tasmanian tiger ?
- Q8) What animal can be used to clone a Tasmanian tiger ?
- Q9) What do we need to resurrect an extinct animal ?
- Q10) Is it possible to clone dinosaurs ? Why ?

## B) Can we fill gaps in the DNA of a species with DNA of an other species ?

Let's suppose that some DNA survived to degradation....

Video 10:10-15:55

Q1) What's the DNA buffer method ?

Q2) What DNA would be used to repair mammoth's DNA ?

Q3) Can the DNA buffer method be used with very degraded DNA ?

Q4) Would the hybrid organism created by using the "buffer method" be like the organism you want to resurrect or like the buffer ?

Q5) How must the "buffer organism" be selected ?

Q6) Is it possible to find a "buffer organism" for dinosaurs ?

Q7) In the movie Jurassic Park, what organism do they use as a buffer ? Is that a good choice ?

Q8) Conclude : is it possible to resurrect dinosaurs ?