

De-Extinction

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Overview

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How does it work?

Regenerating an extinct species

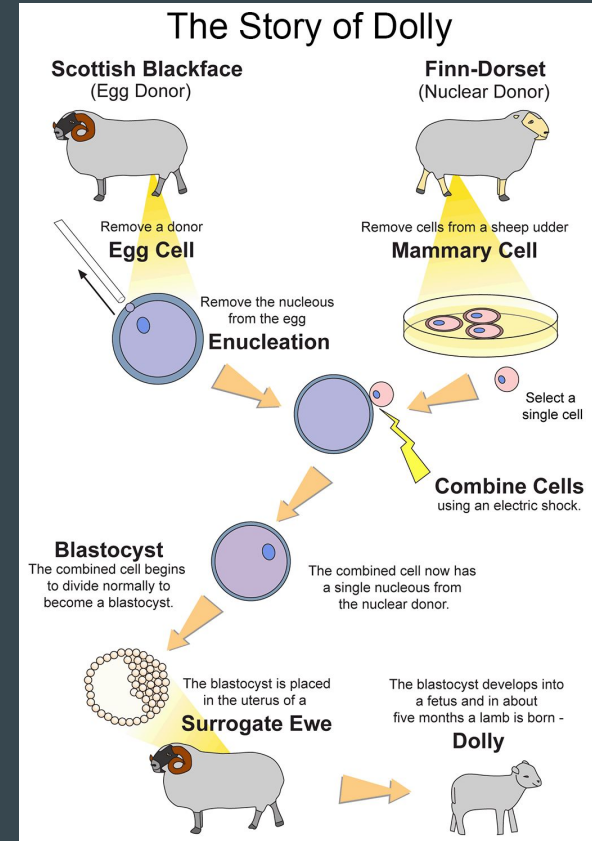
- Also known as resurrection biology
- Pyrenean Ibex is only known success
- Cloning
- Selective breeding
- Genome editing



Pyrenean Ibex

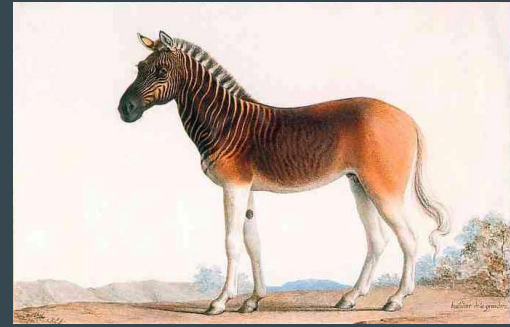
History

- Cloning became possible in 1950s
- Dolly the sheep first cloned
- As technology advanced, more possibilities
- Multiple extinct candidates today



Implementation

- Multiple ready candidates are being investigated
- Woolly mammoth
- Quagga
- Tasmanian Tiger
- Passenger Pigeon



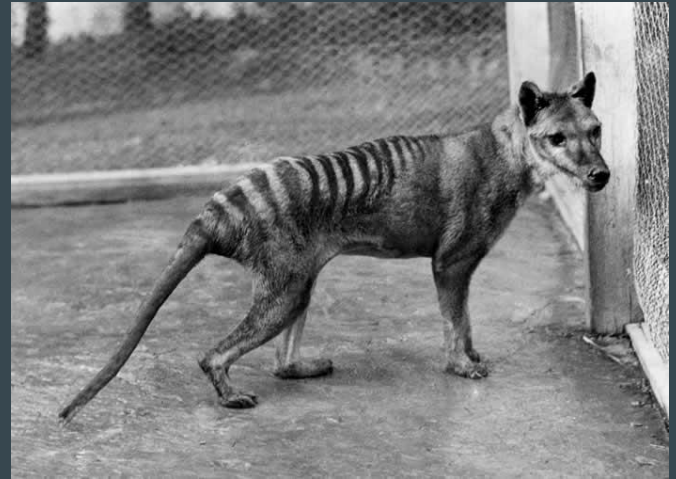
Pros

- Prevents endangered species going extinct
- Could result in cures to diseases
- Research to conserve ecosystems



Cons

- Revival brings negative impacts on environment
- Lead to further extinction
- De-extinction costs millions
- It cannot restore damaged ecosystems



Summary

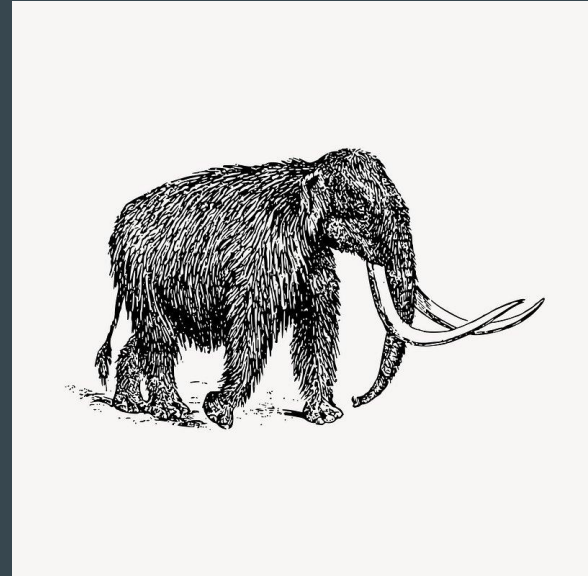
De-extinction also known as resurrection biology is the process of bringing an extinct species “back from the dead”

- Woolly mammoth, passenger pigeon are candidates for de-extinction
- Cloning, genome editing, selective breeding
- Battle is it ethical or not?
- Could boost populations
- Could destroy ecosystems



My opinion on the topic

- It's great for conservation efforts
- Unethical when it comes to human cloning



References

["We Might Soon Resurrect Extinct Species. Is It Worth the Cost?"](#)

[What if extinction is not forever?](#)

[Pathways to de-extinction: how close can we get to resurrection of an extinct species?](#)

[Dolly: A decade on](#)

[The invisible dance of CRISPR-Cas9. Simulations unveil the molecular side of the gene-editing revolution.](#)

[Welcome to Pleistocene Park: Russian scientist say they have a 'high chance' of cloning a woolly mammoth](#)

[The Quagga project south africa](#)

[National Threatened Species Day](#)

[Tasmanian Tiger Genome May Be First Step Toward De-Extinction](#)

[De-Extinction Debate: Should We Bring Back the Woolly Mammoth?](#)

[The Pros and Cons of Reviving Extinct Animal Species](#)

[Should We Bring Back the Passenger Pigeon? The Ethics of De-Extinction](#)