***DE-EXTINCTION: A MAJOR BREAKTHORUGH FOR ECOLOGICAL BALANCE***

“*Winter is coming*”. The famous “*Game of Thrones*” dialogue is coming to life as two dire wolves have taken birth on earth after a long wait of 10000 years. As technology progresses, a bio-science company named *Colossal Biosciences* has achieved exceptional result in bringing back two dire wolves , named *Remus and Romulus* from extinction. There is also a female dire wolf named *Khaleesi* (named after the popular Game of Thrones character *Daenerys Targaryen*)*.* The dire wolves were last found 10000 years ago and it has taken a lot of time for humans to hear them howl. They reflect the epitome of biotechnology and what science is capable of doing.

**What is De-extinction and why is it important?**

Earth has had diverse species and as the time has flown, science researchers and experts have understood the role of each and every species in maintaining the ecological balance. However, heavy industrialization has led to deforestation and habitat destruction which eventually has resulted in extinction of important species. Some of the species have been declared as Critically Endangered Species and are on the verge of extinction. Cheetah, Rhinoceros are few such species of animals that have had huge impact on the ecological balance of the Earth. Predators, particularly, have huge responsibility in maintaining food chain up and running. That is why, communities like Save the Rhino International are being started that aim to raise funds and help prevent the extinction of lovely and wonderful creatures like Rhinos. Colossal biosciences, on the other hand, is a company that focuses mainly on bringing back already extinct animals to life through the aid of Genetic Engineering. They call this process of bringing back extinct animal on Earth as “De-extinction”. They have shown the world the power of Genetic Engineering, thus spreading a message that Science can be used for right causes.

<https://colossal.com/>

**How did Colossal Biosciences bring dire wolves to life?**

Colossal Biosciences a company that consists of highly skilled genetic engineers and biological experts who have come together for a good cause and have created a revolution by helping a species take birth which had disappeared almost 10000 years ago. The experts at Colossal Biosciences have exploited the genetic engineering techniques, genome editing skills and surrogacy to help two cute dire wolves gain life. The YouTube video shows the process of De-extinction.

<https://www.youtube.com/watch?v=F5uCuOwK_VE>

**Why did I write this blog?**

Some people find animals lovely and amazing. I am one among them. I find animals, specifically the Rhinos, as fascinating creatures and they have had huge impact in my life. Seeing Colossal Biosciences give their shot at bringing the dire wolves to life made me realize the true potential of technology that I am studying. Being an M.Tech student, I have always underestimated the power of genetic algorithms. But now, seeing all such advancements, I realize that we only understand the capability of something or someone only when you truly know them. So, it important to never judge something or someone only by the looks of it. Lastly, enjoy the environment, live in harmony with the animals. Treat them well and pour all the love over them. *Stay Happy and Healthy. Cheers!*

**I have returned to blog and article writing after two long years. I have tried to keep this blog original and have written it in my own words. There is no usage of Generative AI tools like ChatGPT and DeepSeek. If you have any comments or feedback please feel free to share them through the email specified in this blog!**

**Thank you for your time and I hope this blog helped you learn something new! Hoping to write some more interesting articles and blogs!**

**Regards and Love always,**

**Omkar R Deshpande**

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**Acknowledgment:**

1. Colossal Biosciences
   1. Main Website : <https://colossal.com/>
   2. YouTube: <https://www.youtube.com/@itiscolossal/videos>
   3. LinkedIn: <https://www.linkedin.com/company/itiscolossal>
   4. X: <https://x.com/colossal?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor>
2. Save the Rhino International
   1. Main Website: <https://www.savetherhino.org/>
   2. Facebook: <https://www.facebook.com/@savetherhinointernational/>
   3. YouTube: <https://www.youtube.com/@SavetheRhinoInternational>
3. Time Magazine: <https://time.com/7274542/colossal-dire-wolf/>

**Images to be embedded in the blog site:**

