

Evolution

진화

11011 이성빈

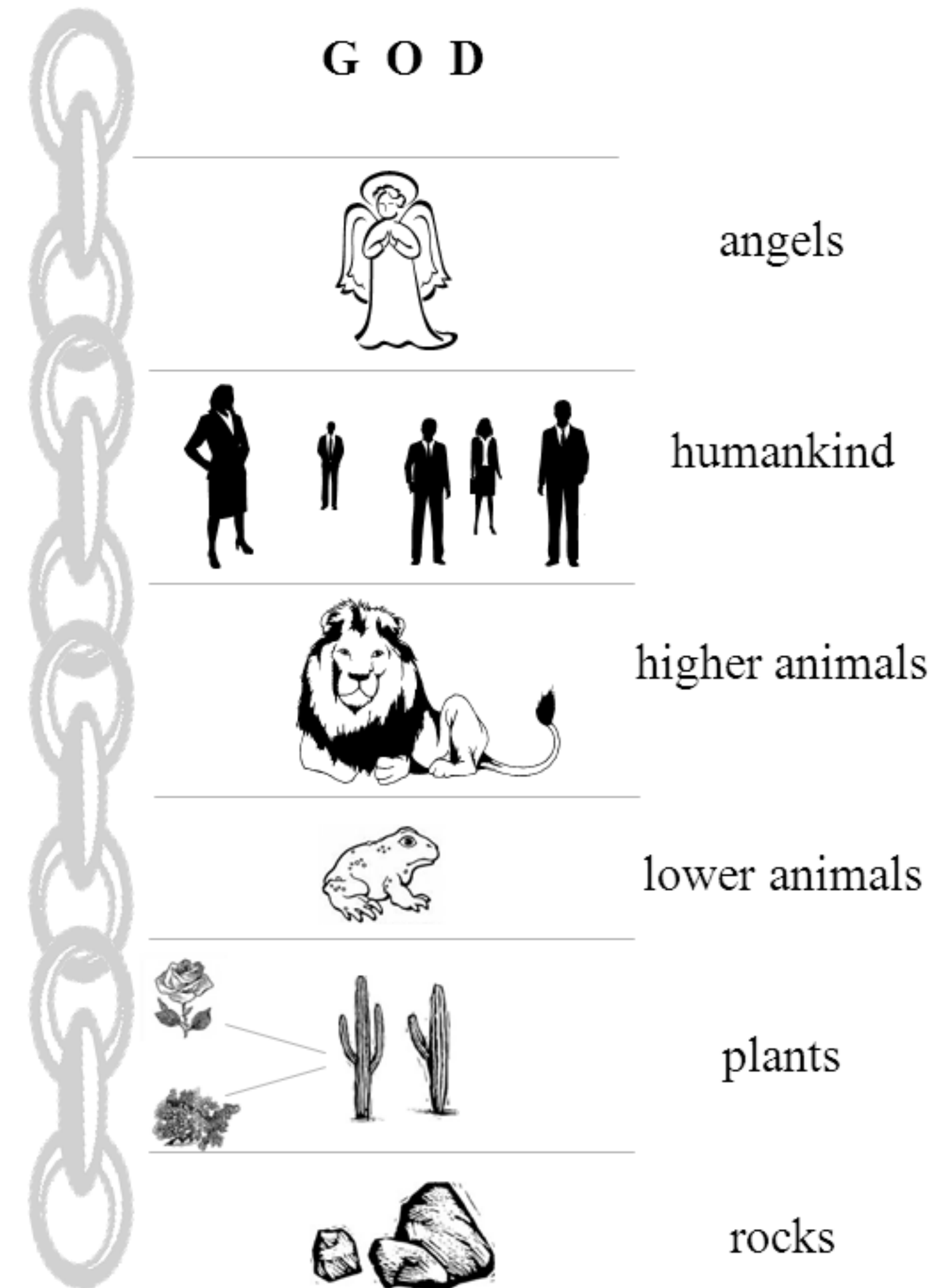
References

(올림포스 영어 독해의 기본, Unit 16, Practice 03)

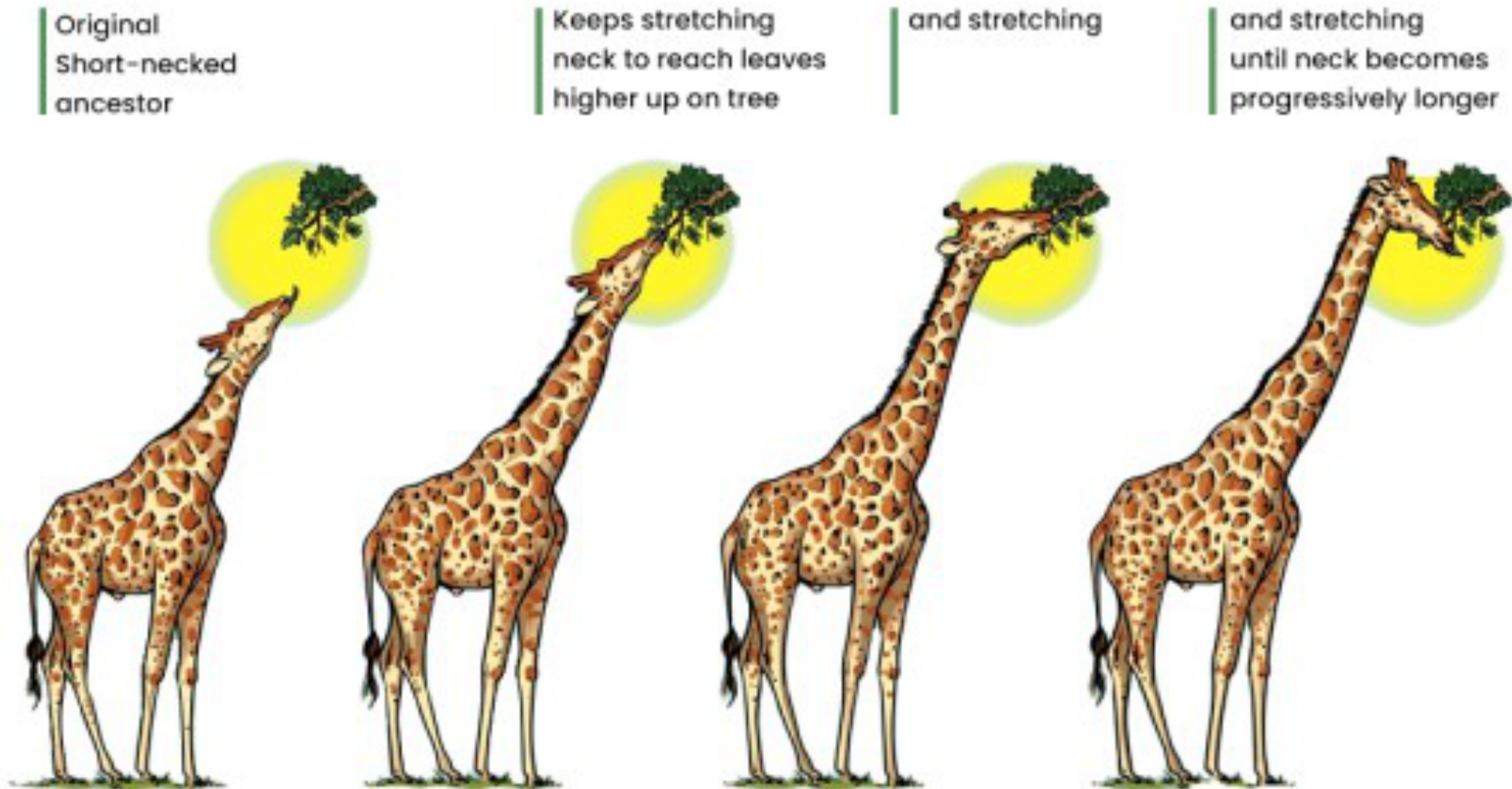
One common misunderstanding of evolution is that it leads inexorably to organisms that are ever better designed. But Darwinian evolution is not a process of perfection. In contrast to the Lamarckian and Great Chain of Being theories of evolution, natural selection does not inexorably drive species up some kind of ladder of perfection. Rather, natural selection is, to borrow a term from economics, a process that leads to satisficing (just being “good enough for now”). In other words, so long as you survive and do better than your rivals, that is good enough. An antelope does not have to become the fastest animal on earth; it simply has to be faster than the lions that try to catch it. By the same token, lions and other predators do not have to be able to run marathons at top speed; nor do they have to be able to catch every prey animal. They just have to be fast enough to catch sufficient prey animals to survive.

How does the mechanism of evolution work?

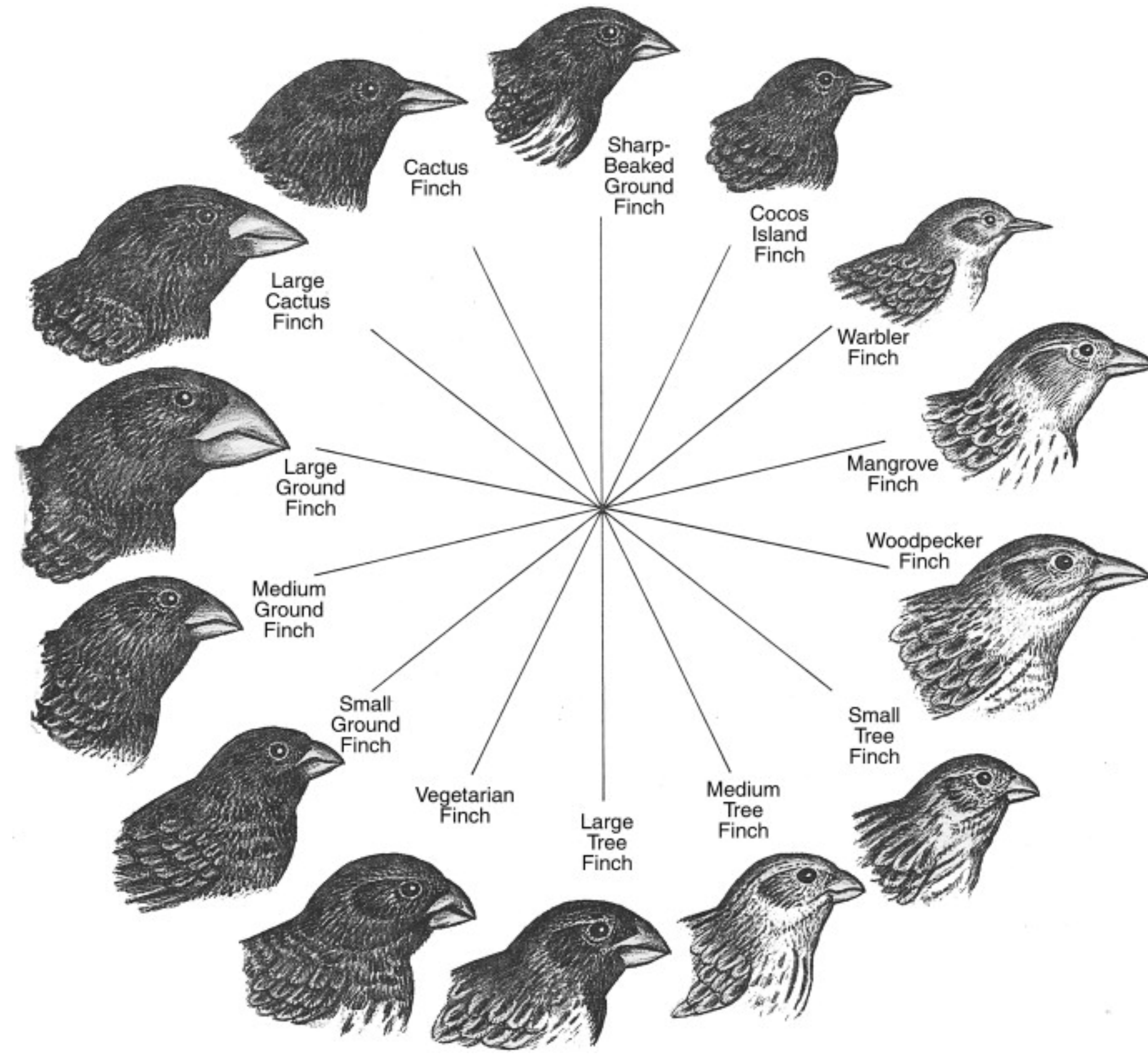
What is Great Chains of Being?



What is Lamarckian Evolution?



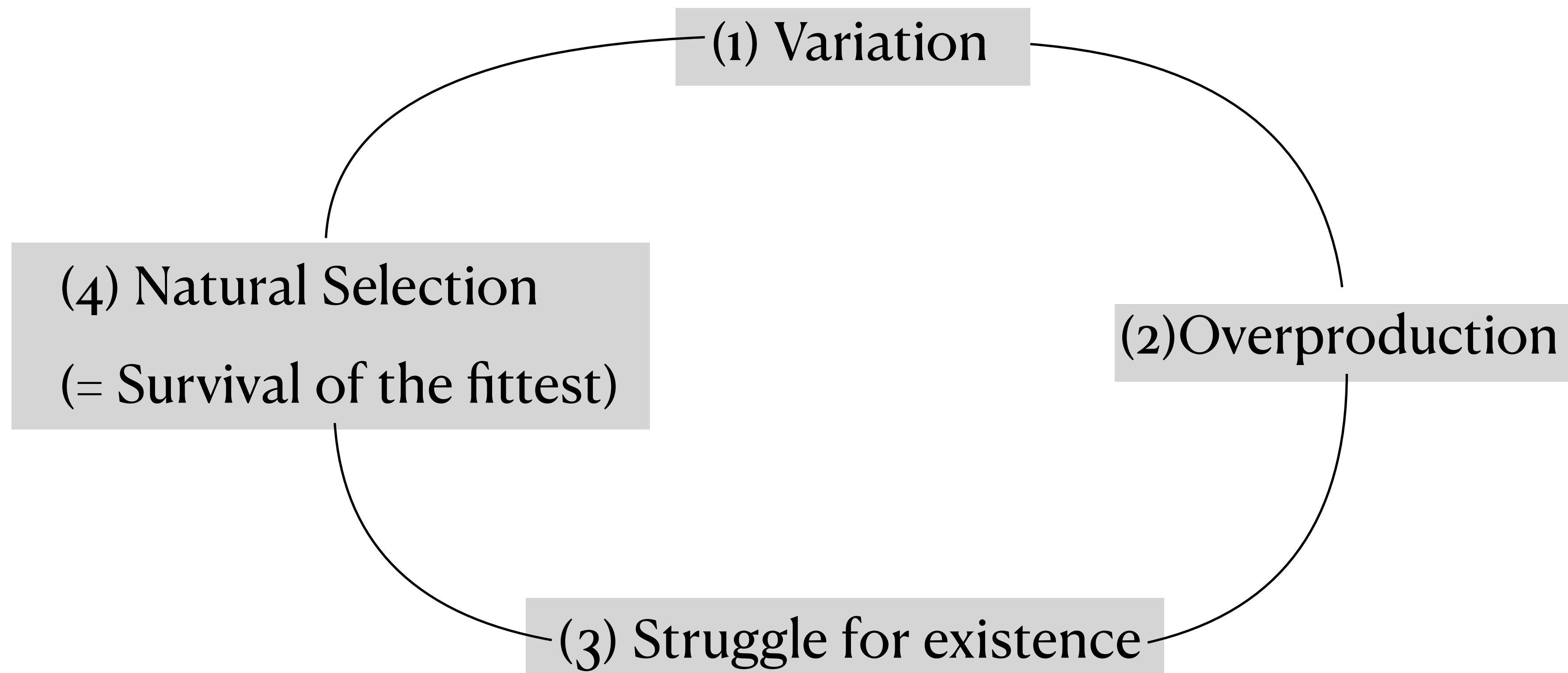
What is Darwinian Evolution



How Darwinian Evolution became mainstream theory?

1. Extensive evidence(observation)
2. Clear mechanism(natural selection)
3. Subsequent scientific validation(genetics, molecular biology)

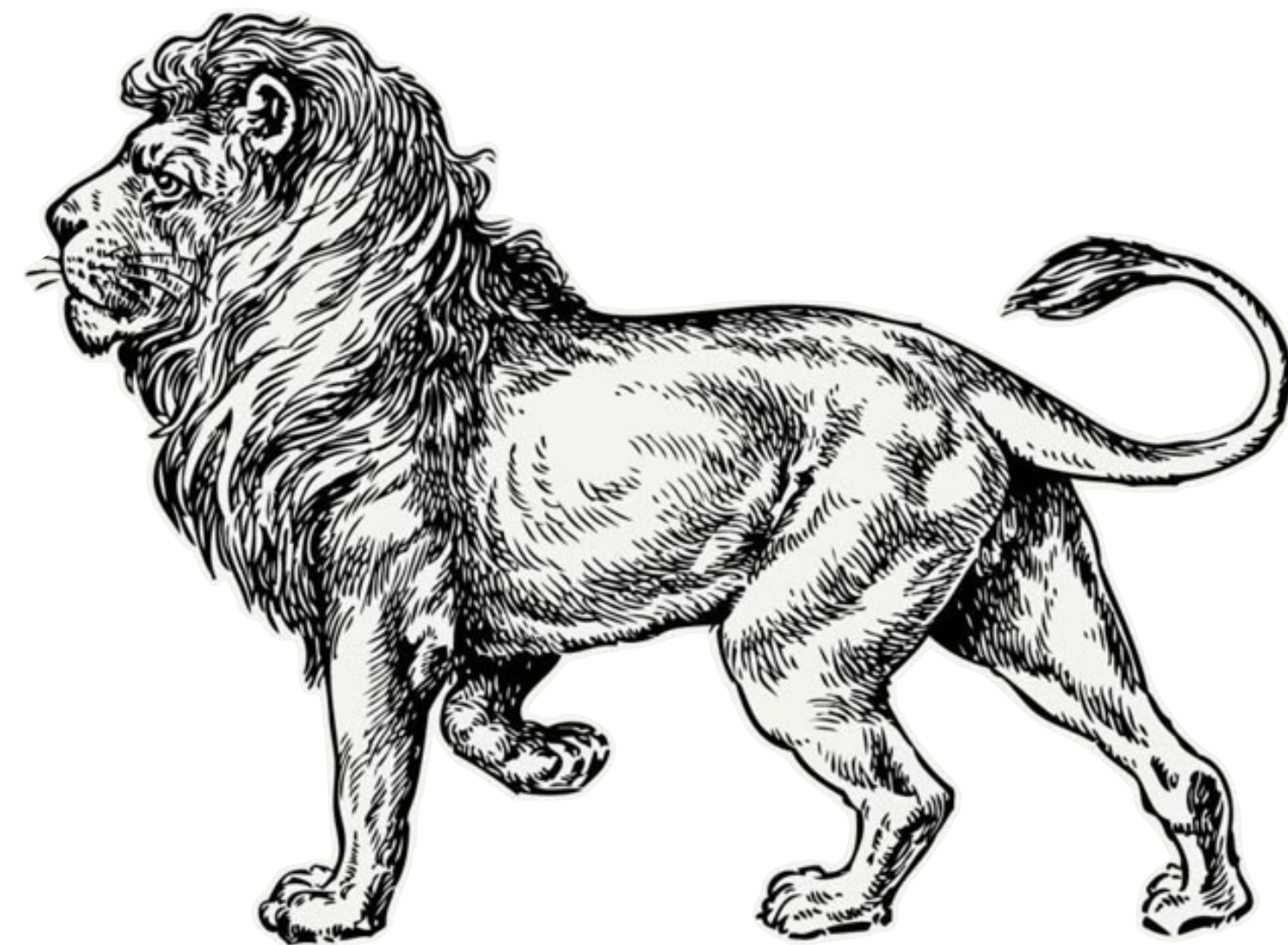
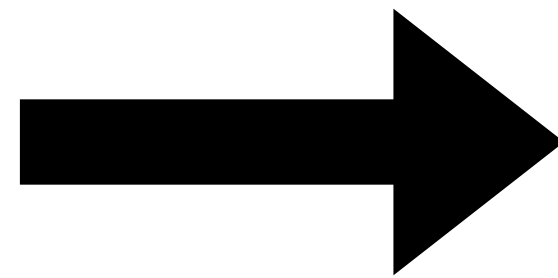
Natural selection



Not Perfection, Just Satisficing



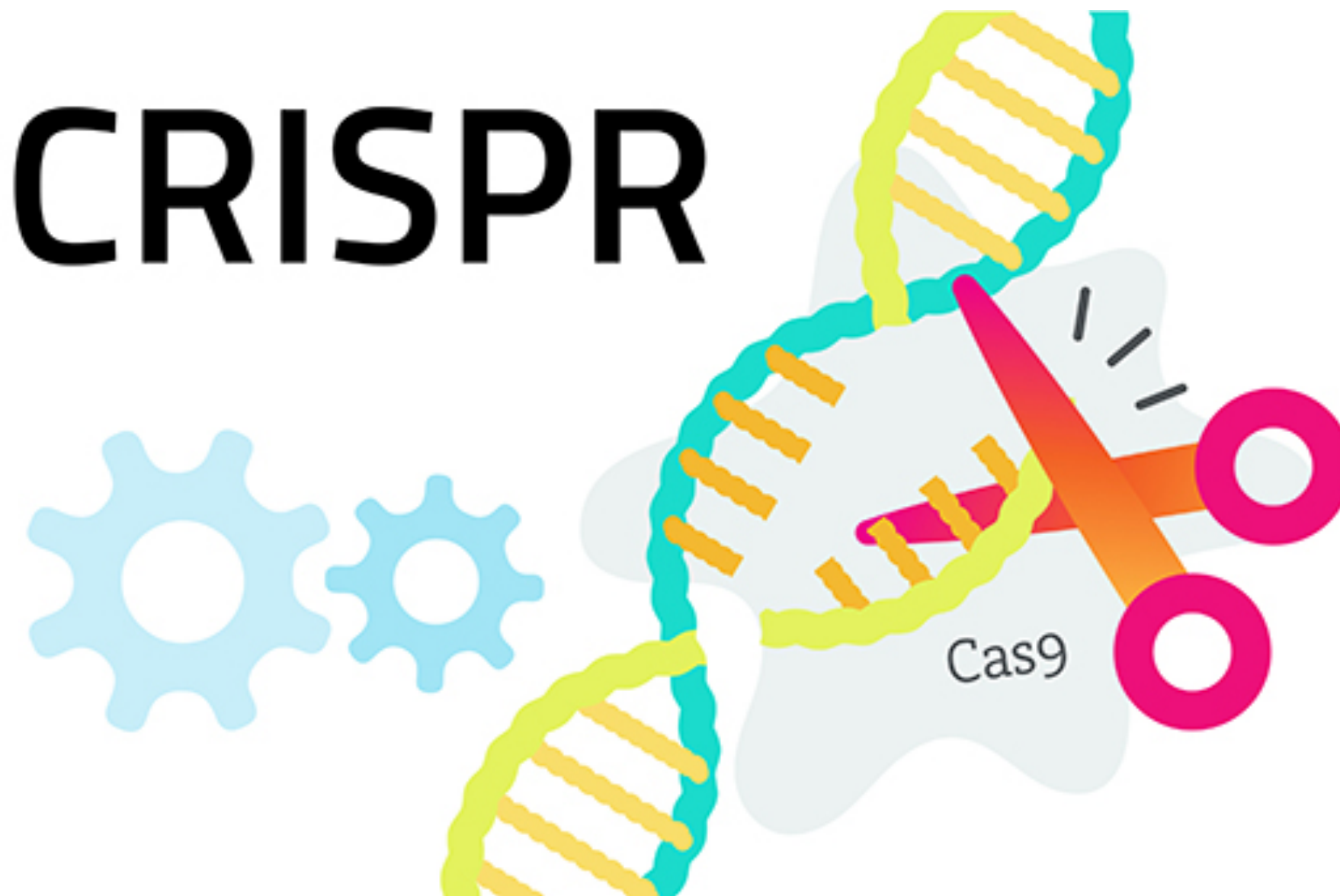
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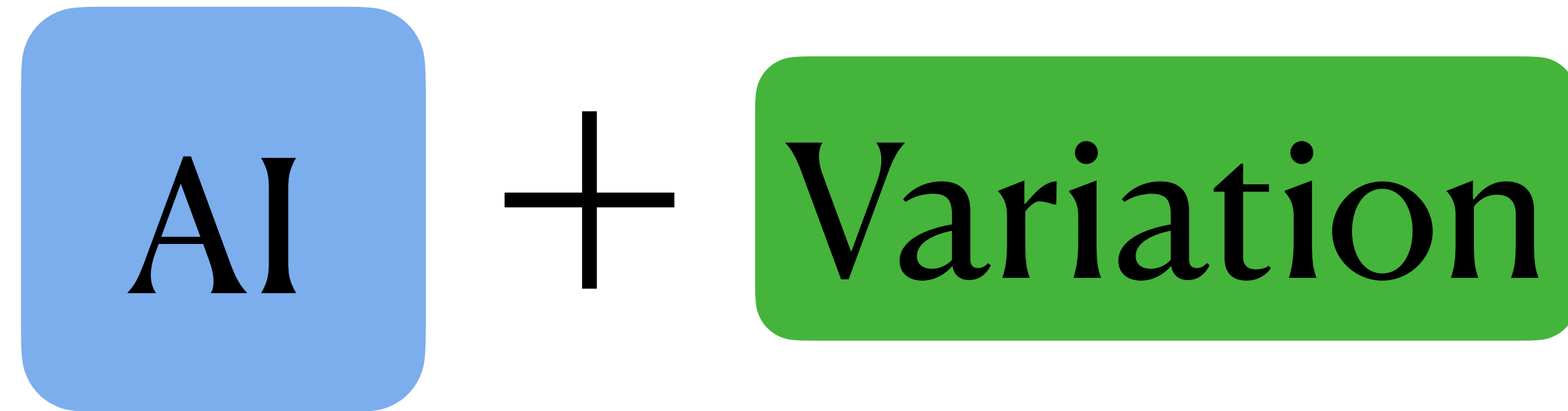
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Future Evolution

CRISPR



Suggestion for Further Inquiry



Thank You