

Twitter Thread by Tar ■

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■ Announcement ■

Every few days, I will post an infographic on some of the topics related to industries I am exploring.

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#LearnWithTar

Issue #1

What are Recombinant Proteins?

<https://t.co/f8AE9aYqGF>

#Laurusbio #RDNA

RECOMBINANT PROTEINS

What, Why and How?



EXPLAIN LIKE I AM 5

Recombinant DNA is when we stitch together a bunch of unrelated DNA from various organisms to produce one functional thing. You can take GFP Gene from a Jellyfish and put in mice DNA. The mice will produce GFP protein which absorbs UV light and makes the mice glow green.



RECOMBINANT DNA + BACTERIA = RECOMBINANT PROTEIN

Once a Recombinant DNA is inserted into bacteria, these bacteria make proteins based on the modified DNA (rDNA). These proteins are known as Recombinant Proteins.

WHAT ARE ITS USE?

Ability to modify DNA and insert it into bacteria and other organisms to produce desired proteins has wide uses from medicine to enzymes to industrial etc. Proteins are the building block of the world and ability to transform and produce them on command is surely going to disrupt a lot of what we know.



EXAMPLE OF RECOMBINANT PROTEIN

Insulin is the most famous example of a Recombinant Protein. It was the first molecule which was a direct result of recombinant DNA Technology. Before synthetic insulin was produced in lab, we used to harvest insulin from pigs.

Here is a corrected version, if you want to download.

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