

## **DREAM PROBLEM & WHY IT IS SO:-**

Nuts are the most common and abundant source of protein and specifically for vegans & vegetarians, nuts are the major protein substituent. But due to anaphylaxis or, severe allergic nature of nuts (like almond, cashew, pistachio, walnut, peanut, chia seeds, flax seeds etc. and their products like peanut- butter, candies etc.) many people are unable to consume nuts & also avoid products made from nuts.

In 21<sup>st</sup> century, there has been a sudden increase in number of cases of allergy from nuts & is one of the most common cause of food related death<sup>[1]</sup>.

If people (vegans) are also not taking nuts in their diet then as per W.H.O. estimation, 10% of total world population will be malnourished till 2030<sup>[2]</sup>

So the ultimate solution for such problem should be to produce tree nut's without having their allergic gene in their genetic makeup, as there have been many successful & unsuccessful trials performed earlier but nothing is as cheaper, practice friendly as well as efficient as CRISPR Cas9 technique can be proved for such targets. [as I am saying this after observing the result of the same technique used for the same reason in wheat plants by scientists but have not it's any practical result mentioned for nuts].