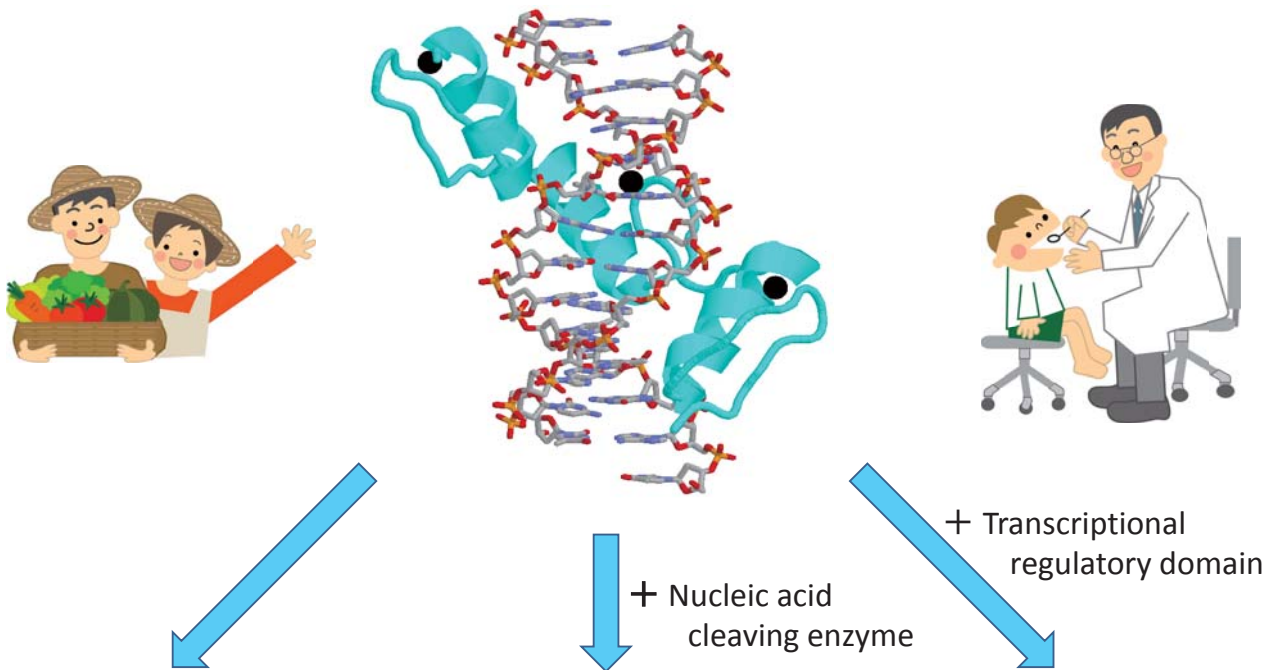


Application of artificial nucleic acid binding proteins to medical treatment and agriculture

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Artificial nucleic acid binding protein



“Viral replication inhibitor”

“Artificial nucleic acid cleaving enzyme”

“Artificial transcription factor”

Action Principle :

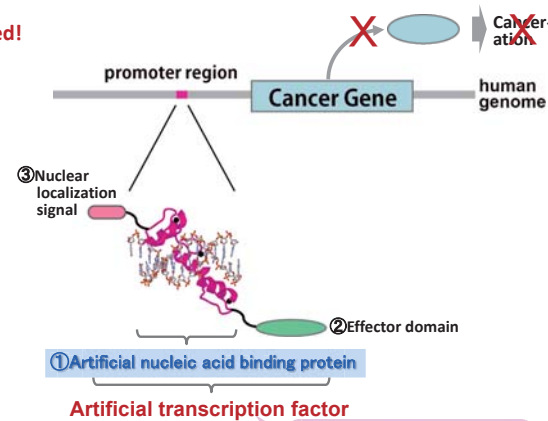
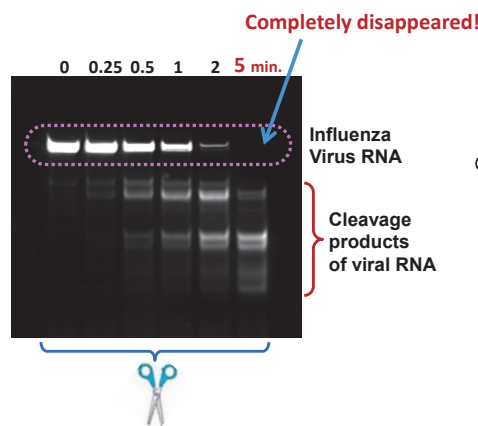
Prevention of virus infection by inhibiting viral replication \rightarrow Artificially give immunity against virus to the plant

Action Principle :

Inactivation of virus by cleavage of genomic nucleic acid of target virus

Action Principle : The expression level of target gene can be freely regulated by selection of transcriptional regulatory domain

Wild Type Engineered Plant



Healthcare / Animal husbandry : Anti viral drug
Agriculture : Virus resistant crops

Healthcare : Protein-based drug
Agriculture : Production increase