

## Diagnosis



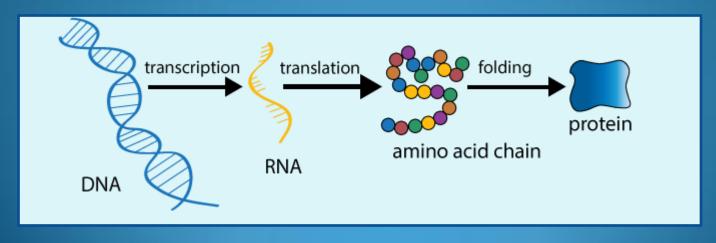




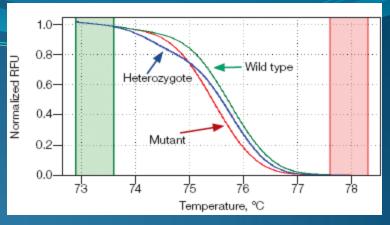


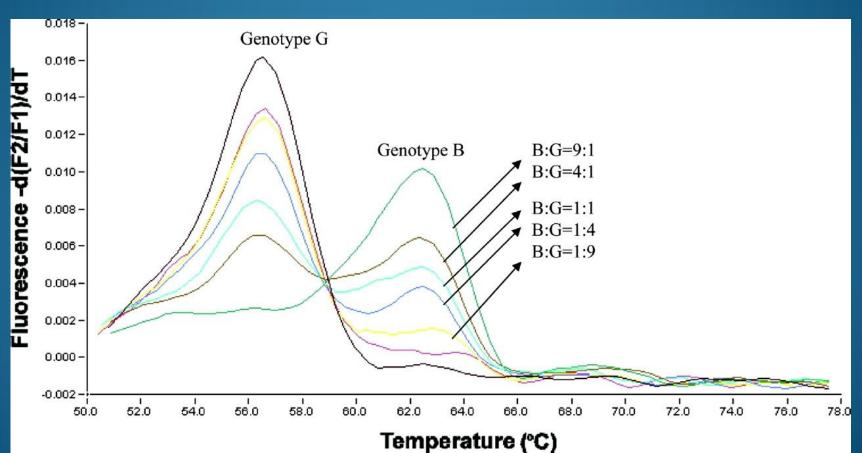
# Gene expression



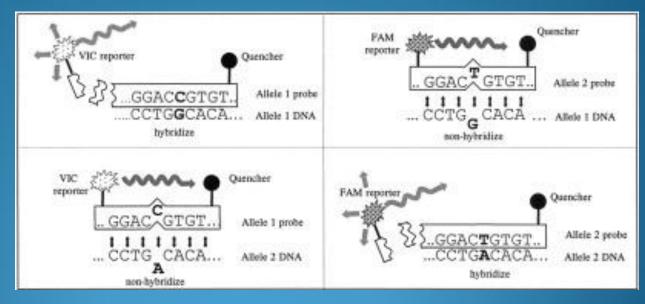


### Genotyping





### Single nucleotide polymorphism (SNP)



# Food Safety







### Genetically Modified Organisms (GMO)

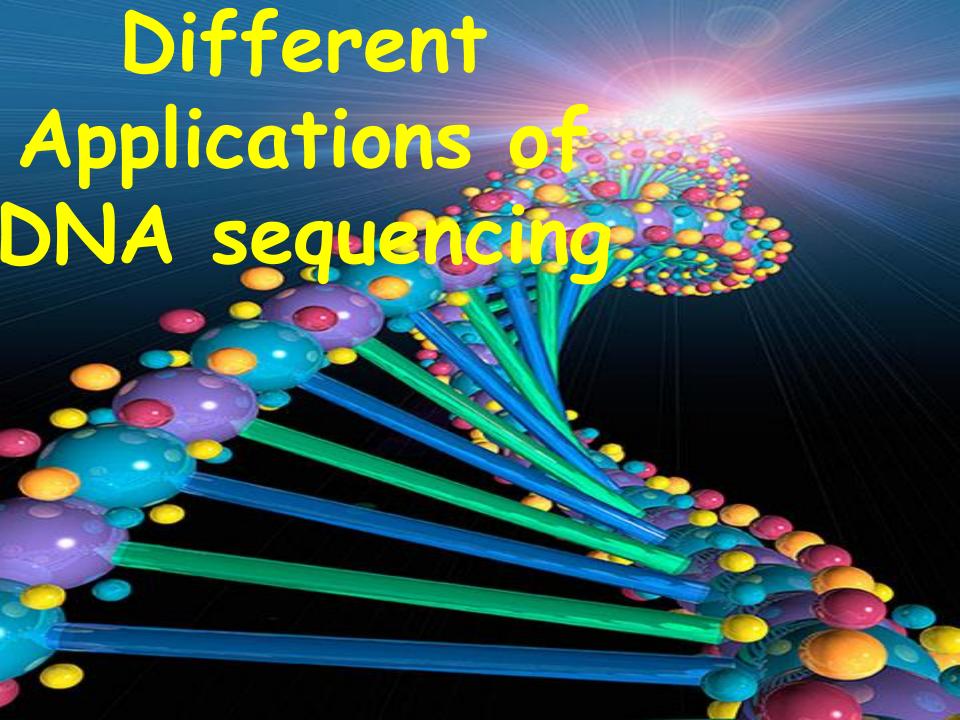


GMO testing with real-time PCR

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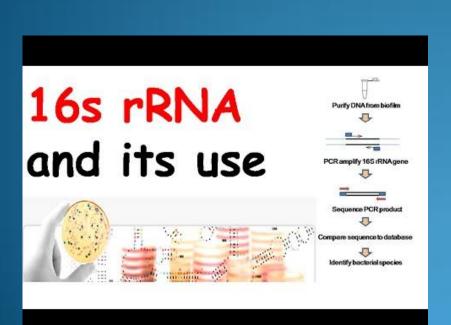
GMO Salmon

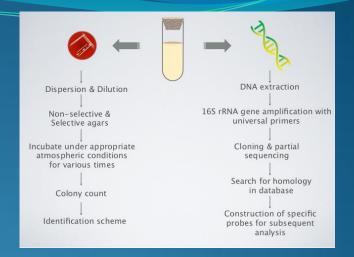


# Diagnosis



# Bacterial & Fungal identification





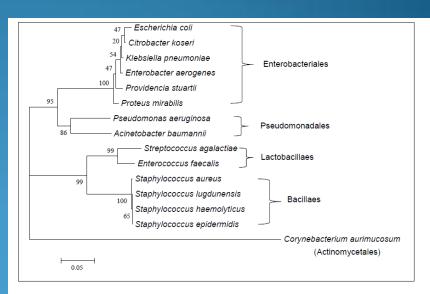
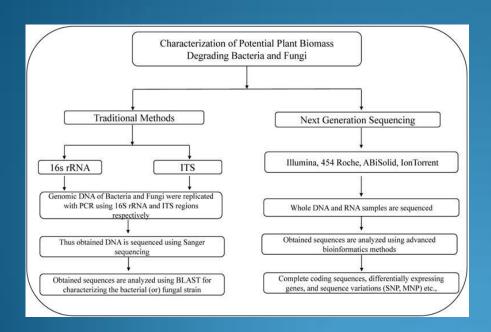
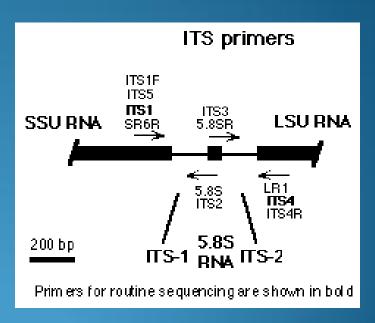


Figure 2. Phylogenetic tree constructed by MEGA5.0 based on 16S rDNA sequences amplified by PL06 and DG74 primers.

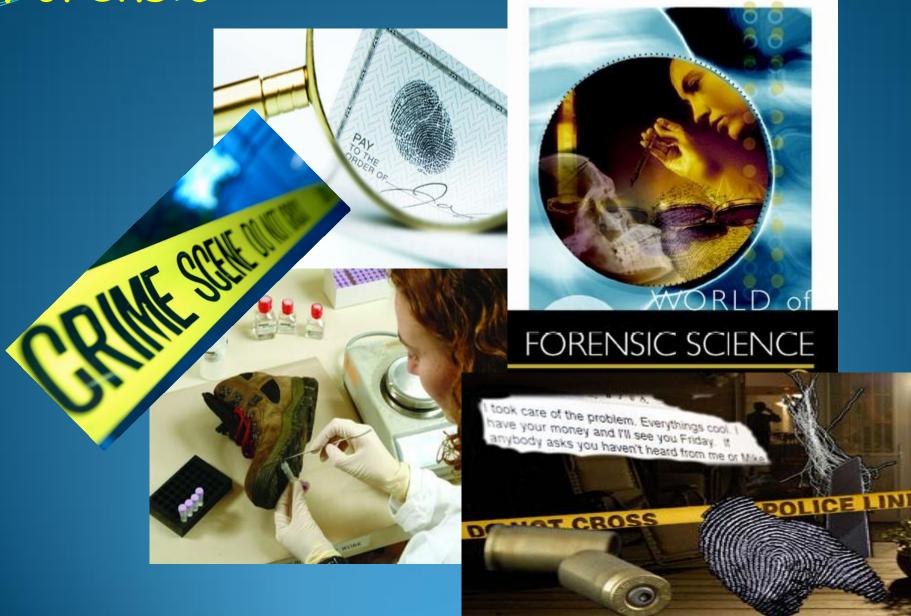
The identity of the bacteria was confirmed by biochemical tests. The scale bar represents 5% sequence divergence.

# Fungal identification

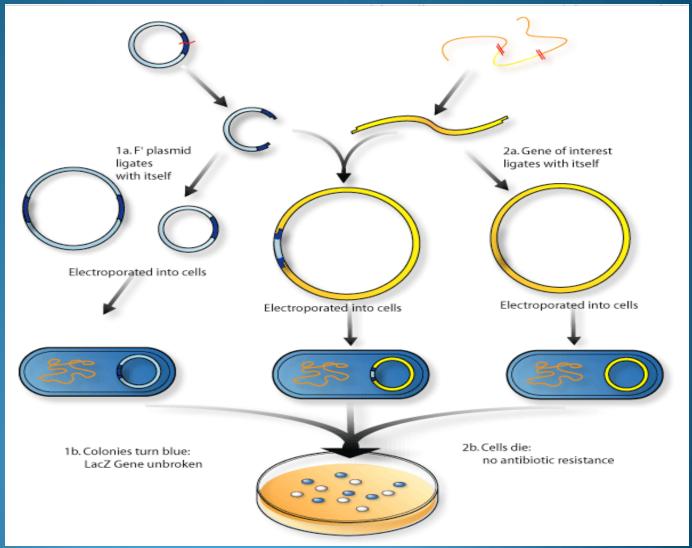




#### Forensic

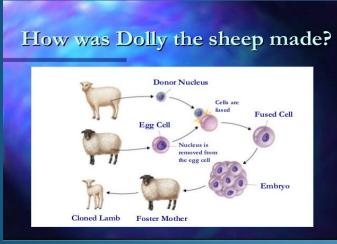


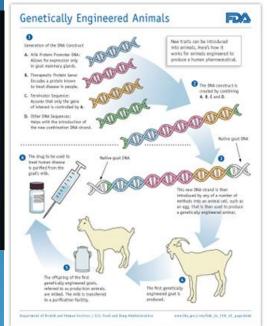
## Gene cloning & expression



# Genetic engineering & Biotechnology









Purpose: Determine gene function to produce better plants for society T-DNA Mutagenesis and Plant Genetic Engineering



# Creating mutation

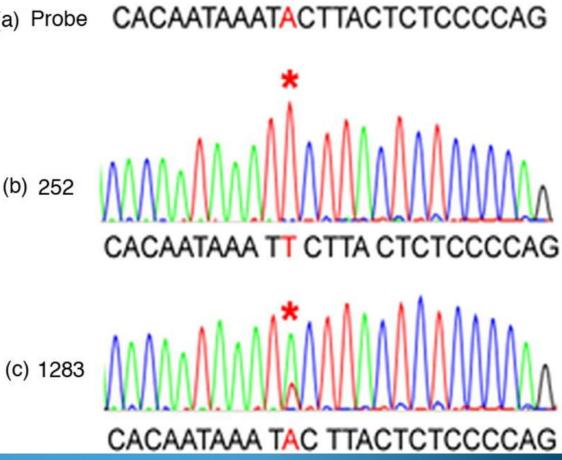
Random or specific

ACCATCGGCCTGCATCA
TGGTAGCCTGACGTAGTCATGGTAGCCTGACT----

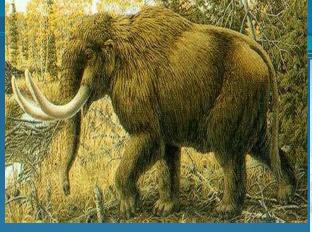


Single nucleotide polymorphism

(SNP)

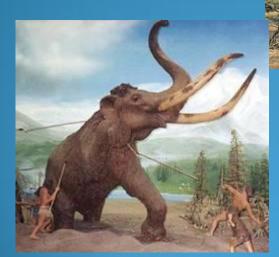


# Studying evolution





#### Mastodon



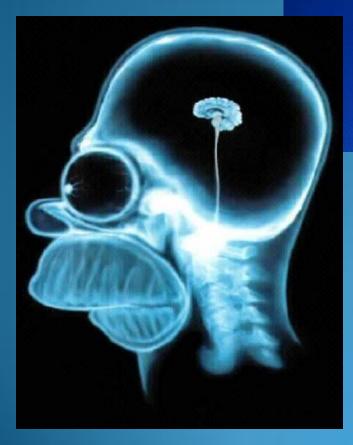
## Fossils

3D SCIENCE.com



# PCR is just a tool

Reaching Beyond Horizons



How to use it, is up to you

