membranous structure called transformasome which protrudes outside the cell.

* The transforming DNA is taken into these vesicles where it is internalised into the cell.

* DNA uptake in Haemophilous influenzae appears to require specific sequence termed uptake sequences, for example - AAGTGCGGTCA in Heamophilous influenzae.

* The Heamophilous influenza take up DNA of their own species by recognising uptake sequences where as other species such as Streptococcus Pneumonial and Bacillus subtilis do not diserminate between their own and foreign DNA.

☆ Process of transformation

* Once the free DNA comes in the contact with the competent bacteria, linear, double stranded DNA enter into the cell but one strain is degraded while the other is integrated into the chromosome by homologous recombination.

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* Recipient cells undergo this process and acquire a new phenotype as a result are said to be transformed.

* Single stranded exogenotes are unstable and will usually be degarded unless they are intergated into endogenote.

* By the Process of homologous recombination. the transforming DNA intergates into the bacterial chromosome.