

Analysis of the gene-transfer happened in the different conditions at geothermal environment

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Now many entire genomic sequences were determined. In these genomic sequences gene transfer was identified. This feature was detected on most genomic sequences, but it is impossible to perform in vitro gene transfer in the living microorganism yet. To understand the effect of environmental condition at the geothermal environment for gene transfer, 16S rDNA region was amplified from the DNA directly prepared from the segment obtained from the geothermal environment with different pH conditions. Comparison of 16S rDNA sequence indicated that alkaline environment promoted the previous gene transfer and rearrangement of the genome.