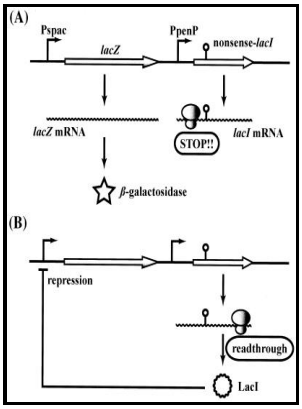
Search for nonsense suppressors in Streptomyces coelicolor.

University of East Anglia - Visual and Microscopic Evaluation of Streptomyces Developmental Mutants



Description: -
-search for nonsense suppressors in Streptomyces coelicolor.
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Notes: Thesis (M.Phil.) - University of East Anglia, School of Biological Sciences, 1973.
This edition was published in 1973

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Tags: #Ultraviolet #mutagenesis #in #Streptomyces #coelicolor: #Induction #of #reversions #in #a #polyauxotrophic #strain

Isolation of Intragenic Suppressors to Point Mutations In the 3' by Andrew Joseph Szabo

Resuspended cells were dripped into liquid nitrogen and then ground with pestle and mortar. Wild type and lsr2 mutant strains were cultured for 18 hr prior to extraction in methanol and reconstitution in DMSO. This fragment was also used as probe for Southern hybridization B.

Analysis of gene expression in operons of Streptomyces coelicolor

As shown above, both the absA542 blockage to antibiotics and the absA1::ermE-effected precocious synthesis of antibiotics occur when these alleles are transferred to another well characterized S. The colony morphology of the C420 colonies was also altered: the surface of the colony was highly crenulated and sporulating hyphae were sparse FIG.

Cosmid based mutagenesis causes genetic instability in Streptomyces coelicolor , as shown by targeting of the lipoprotein signal peptidase gene

RNA fragments between 26 and 32 bp were size-selected and eluted in 400 ml of RNA gel extraction buffer 300 mM sodium acetate pH 5. We sought to identify additional proteins that could be mismetallated by Zn II and the underlying mechanisms of Zn II intoxication in B.

ABC transporter involved in the control of streptomycin production in Streptomyces griseus

Importantly, we did not observe major differences in antibiotic production between S. F growth profile of GAD05, indicated by the CO 2 production grey line and the biomass concentration black dots.

Cosmid based mutagenesis causes genetic instability in Streptomyces coelicolor, as shown by targeting of the lipoprotein signal peptidase gene

The resulting plasmid was conjugated into the lsr2 mutant , and exconjugants were selected for using apramycin and nalidixic acid.

Silencing cryptic specialized metabolism in Streptomyces by the nucleoid

Wakeman CA, Hammer ND, Stauff DL, et al.

Cloning and analysis of a gene cluster from Streptomyces coelicolor that causes accelerated aerial mycelium formation in Streptomyces lividans.

For degradation of the second strand that contains dUTP instead of dTTP, 1 U of USER enzyme NEB was added to the purified DNA and incubated at 37 0C for 15 min.

Visual and Microscopic Evaluation of Streptomyces Developmental Mutants

Thieffry D, Salgado H, Huerta AM, Collado-Vides J: Prediction of transcriptional regulatory sites in the complete genome sequence of Escherichia coli K-12. To circumvent these problems, a cloning scheme was employed based on the introduction of a library by conjugal transfer of the self-mobilizing plasmid pIJ922. Engineering Complex Phenotypes in Industrial Strains.

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