Package: CSESA (via r-universe)

September 6, 2024

Type Package

Title CRISPR-Based Salmonella Enterica Serotype Analyzer

Version 1.2.0

Description Salmonella enterica is a major cause of bacterial
food-borne disease worldwide. Serotype identification is the
most commonly used typing method to characterize Salmonella
isolates. However, experimental serotyping needs great cost on
manpower and resources. Recently, we found that the newly
incorporated spacer in the clustered regularly interspaced
short palindromic repeat (CRISPR) could serve as an effective
marker for typing of Salmonella. It was further revealed by Li
et. al (2014) <doi:10.1128/JCM.00696-14> that recognized types
based on the combination of two newly incorporated spacer in
both CRISPR loci showed high accordance with serotypes. Here,
we developed an R package 'CSESA' to predict the serotype based
on this finding. Considering it's time saving and of high
accuracy, we recommend to predict the serotypes of unknown
Salmonella isolates using 'CSESA' before doing the traditional
serotyping.

License GPL (>= 2)

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests testthat

Imports Biostrings

Repository https://xia-zhang.r-universe.dev

RemoteUrl https://github.com/xia-zhang/csesa

RemoteRef HEAD

RemoteSha 47a91946a198d42e1dc895ae7134c61e3cdd8a6d