Fungal Genetics Reports

Volume 20 Article 36

cr sn: the significance of macroconidiation for mutant hunts

R. E. Nelson University of California

T. Chandler University of California

C. P. Selitrennikoff University of California

Follow this and additional works at: https://newprairiepress.org/fgr



This work is licensed under a Creative Commons Attribution-Share Alike 4.0 License.

Recommended Citation

Nelson, R. E., T. Chandler, and C.P. Selitrennikoff (1973) "cr sn: the significance of macroconidiation for mutant hunts," *Fungal Genetics Reports*: Vol. 20, Article 36. https://doi.org/10.4148/1941-4765.1844

This Technical Note is brought to you for free and open access by New Prairie Press. It has been accepted for inclusion in Fungal Genetics Reports by an authorized administrator of New Prairie Press. For more information, please contact cads@k-state.edu.

cr sn: the significance of macroconidiation for mutant hunts
Abstract cr sn: significance of macroconidiation for mutant hunts

Nelson, R. E., T. Chandler and C. P. Selitrennikoff., cr sn: Perkins (1971 Neurospora News!, 18: 12) noted that cr (crisp, B123) sn (snowflake, C136) stocks grow on solid media as comthe significance of macroconidiation for mutant hunts. pact colonies which produce conidio. He also predicted their usefulness for mutant hunts. The crish stock that we obtained from the Fungal Genetics Stock Center, FGSC#2002, produces chains of macroconidio which do not readily separate. phenotype is due to a third single gene mutation in that stock. We refer to this new gene as csp-2 (conidial separation defective, allele UCLA 101). The gene is unlinked to cr or sn (or csp-1), and the phenotype can be scored, with or without or cr sn background, by the "top test" (Selitrennikoff and Nelson 1973 Neurospora News). 20: following note).

from the transferred conidia. Plate cultures of confluent cr sn_csp-2+ colonies are also on excellent source of macroconidia. One 9 cm culture yields ca. 5 x 10⁹ conidia. On the other hand, conidiating colonies of cr sn csp-2 on plates con be exposed individually to ony "test" medium, in situ, by adding the medium in a soft agar overlay. The overlay is poured without disturbing the chains of conjoined conidia. Therefore, cross contamination of colonies, via freed conidia, is minimized. We have capitalized on the described properties of there stocks to isolate single gene mutants which lock NAD(P) glycohydrolase activity (EC 3.2.2.6). (Supported in part by UCLA Medical Sciences Research Fund to P. T. Cohen and on NSF grant to R.W.

Siegel)- - Department of Biology, University of California, Los Angeles, California 90024.

cr sn csp-2 and cr sn csp-2⁺ derivatives each hove useful properties for the examination of individual colonies in a large population. Cr sn csp-2⁺ colonies can be accurately replica plated with velveteen covered blocks. A single velveteen master is used to faithfully print the location of each colony onto ten or more additional plates by transfer of conidia. There secondary plates can contain media which test directly the properties of the transferred conidio, or which test the properties of colonies that grow