Fungal Genetics Reports

Volume 21

Article 9

A simple explanation for 66.7% limiting values in tetrad analysis

A. M. Millington-Ward *Genetisch Laboratorium*

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

Millington-Ward, A. M. (1974) "A simple explanation for 66.7% limiting values in tetrad analysis," *Fungal Genetics Reports*: Vol. 21, Article 9. https://doi.org/10.4148/1941-4765.1802

This Pedagogical 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.

A simple explanation for 66.7% limiting values in tetrad analysis

Abstract

Simple explanation for 66.7% limiting values in tetrad analysis

for the 66.7% limiting values in tetrad analysis.

Millinaton-Ward, A. M. A simple explanation

This note is in response to Griffiths and Person (1973 $NN^{\#}20$: 37). Suppose a box contains two black and two white balls, which are to be transferred to a linear sock in turn and without looking (Fig. 1). At the first dip into the box, there is a 50:50 chance of taking out a black or a white ball. Suppose a black

ball is transferred to the tube (Fig. 2). There are now two white and one black ball remaining in the box. Therefore, at the second transfer, there is twice as much chance of taking a white as there is of taking a block ball. There is, therefore, twice as much chance of forming a second-division segregation sack as there is a first. There are, therefore, under random segregation, twice q_s many second-division segregation $q_sci(4/6)$ as there are first (2/6). Therefore, under random conditions, there are 4/6 (= 66.7%) second-division segregation asci. - - - Genetisch Laboratorium, Der Rijksuniversiteit, Kaiserstraat 63, Leiden, The Netherlands. Fig.2