Fungal Genetics Reports

Volume 21 Article 9

A simple explanation for 66.7% limiting values in tetrad analysis

A. M. Millington-Ward
Genetisch Laboratorium

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

A simple explanation for 66.7% limiting values in tetrad analysis

Abstract

Simple explanation for 66.7% limiting values in tetrad analysis

Millington-Ward, A. M. **A simple explanation for the 66.7% limiting values in tetrad analysis.**

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 as many second-division segregation asci (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.1

Fig.2