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Evolution, 45(3), 1991, pp. 622-629

THE GENETIC INTERPRETATION OF INBREEDING DEPRESSION AND OUTBREEDING DEPRESSION

MICHAEL LYNCH

Department of Biology, University of Oregon, Eugene, OR 97403 USA

Abstract.—Inbreeding with close relatives and outbreeding with members of distant populations can both result in deleterious shifts in the means of fitness-related characters, most likely for very different reasons. Such processes often occur simultaneously and have important implications for the evolution of mating systems, dispersal strategies, and speciation. They are also relevant to the design of breeding strategies for captive populations of endangered species. A general expression is presented for the expected phenotype of an individual under the joint influence of inbreeding and crossbreeding. This expression is a simple function of the inbreeding coefficient, of source and hybridity indices of crossbreeding, and of specific forms of gene action. Application of the model may be of use in identifying the mechanistic bases for a number of evolutionary phenomena such as the shift from outbreeding enhancement to outbreeding depression that occurs with population divergence.

Key words.—Inbreeding depression, outbreeding depression.

Received April 2, 1990. Accepted August 13, 1990.

Two topics of fundamental importance to many areas in evolutionary biology are the consequences of inbreeding within populations and of outcrossing between populations. With almost no exception, empirical studies indicate that inbreeding causes a shift in mean phenotypes in a direction that causes a reduction in fitness (Wright, 1977; Shields, 1982; Charlesworth and Charlesworth, 1987; Ralls et al., 1988; Lynch, 1989). On the other hand, crossbreeding between populations often has positive effects on fitness-related traits (Darwin, 1877; Sheridan, 1981; Turton, 1981; Sprague, 1983; Levin, 1984). It is frequently argued that this response to outcrossing is simply the recovery from inbreeding depression that is expected to result from random genetic drift in isolated populations. One problem with this argument is that outcrossing does not always enhance fitness. Crosses between different species usually lead to substantial or complete inviability or infertility in the F_1 or F_2 generations (Barton and Hewitt, 1981; Templeton, 1981; Covne and Orr, 1989), and

tions as mates become more and more distantly related, and has led to the suggestion that there is an optimal degree of outbreeding (Price and Waser, 1979; Shields, 1982; Bateson, 1983; Waser and Price, 1983). Dominance is generally believed to be the primary agent of inbreeding depression (Crow, 1948, 1952; Lande and Schemske, 1985; Charlesworth and Charlesworth, 1987). On the other hand, the decline in fitness under outcrossing is usually attributed to a breakup of coadapted gene complexes or favorable epistatic relationships (Mayr, 1963; Shields, 1982; Templeton, 1987). Thus, in proceeding from theories of inbreeding depression to those of outbreeding depression, there is a shift in emphasis from interactions within loci to interactions between loci.

Unfortunately, this dichotomy is not so clearcut. For example, although it has received little attention from empiricists, epistasis can contribute to inbreeding depression (Kempthorne, 1957; Bulmer, 1980; Hill, 1982). Moreover, the possibility that overdominance between alleles of closely

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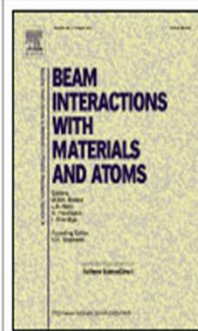
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