NATIONAL SCIENCE FOUNDATION ADVISORY COMMITTEE
BIOLOGICAL AND MEDICAL SCIENCES

PROPOSAL RATING SHEET

No.	Title	Investigator	Institution
B-3096	Hybrid sterility & self incompatibility in tomatoes	Leonard J. Alexander E. F. Paddock	Ohio Agric Expt Sta

The genetics of wide species hybrids in the tomato group is of considerable practical importance in the development of new disease-resistant varieties. In addition, the unique chromosome morphological differentiation of this group deserves to be further exploited in cytogenetic analysis. The proposal does appear, therefore, to elate to problems of a fundamental nature. However, from a fundamental basis there seems to be very little that is really new in the indicated research. The patterns of embryo to endosperm relationships have, as the authors indicate, been rather thoroughly worked out in this group and it is doubtful whether lip service to the term allomitry is to add likely very much to what has already been developed. The technique of genome analysis by means of trisomic is of course an old story and the productivity of the authors does not suggest a very likely and rapid development of their subject. For this reason I feel that the authors are not likely to make quite as much out of the problem as there might be there, but the proposal is nonetheless meritorious. For the same reasons, however, a five-year grant would not appear to be justified and this should be cut to about three. In addition, the over-all proposal seems to be somewhat ambitious in relation to the fundamental value of the observations that can be anticipated.

Score 2 (From 5 (low) to 1 (high))

Signature _____