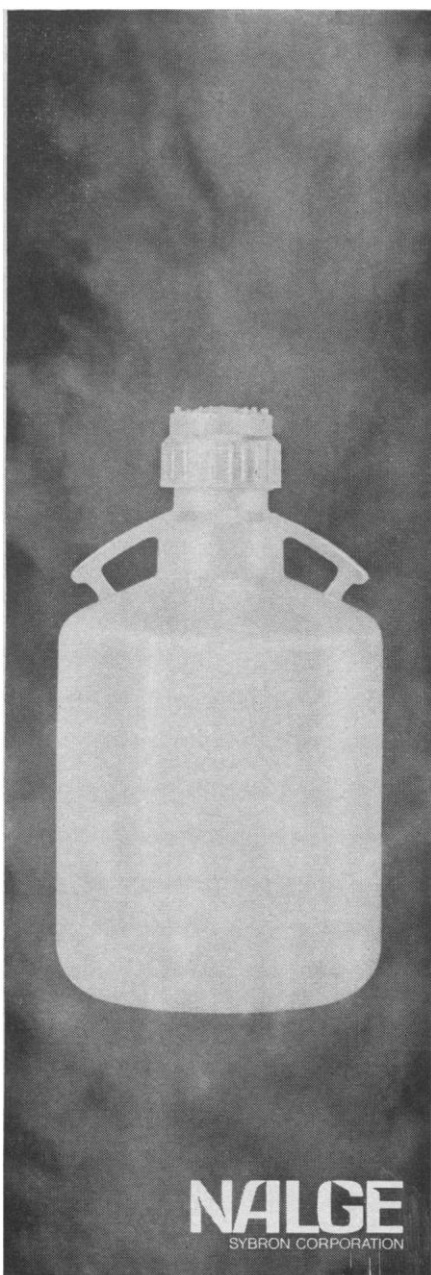


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LETTERS

XYX Chromosome:

Premature Conclusions

McWhirter's letter (6 June) gives the reader the erroneous impression that more is known about the association between the XYX karyotype and criminality than is actually the case. Our own review of the pertinent literature (currently in press in the *Journal of Psychiatric Research*) has led us to believe that no strong correlation exists between the presence of an extra Y chromosome and any specific behavioral, morphological, or physiological parameter. A tendency toward increased height may be an exception, but this too requires further study.

That XYX males are uncontrollably aggressive psychopaths appears to be nothing more than a myth promoted by the mass media. When compared to matched chromosomally normal fellow inmates, institutionalized XYX males seem to be less violent or aggressive and their preadmission histories generally involve crimes against property rather than persons. Several XYX individuals without behavioral dysfunction or criminal tendencies have already been identified.

The research on XYX individuals to date has not ruled out familial, social, and other nongenetic factors as the major determinants of the characteristics attributed to the extra Y chromosome. No direct comparisons of the actual home environments of XY and XYX males have been made. Also, there is no evidence whatsoever to indicate that XY and XYX males tend to differentially benefit from different rehabilitation procedures. Prospective studies of XYX individuals detected at birth may clarify some of the relevant factors that contribute to behavioral deviances in some XYX individuals. However, the necessity of eliminating bias by investigators and of using adequately matched controls and double-blind procedures cannot be sufficiently emphasized. The legal and medical implications of findings in this area increase the usual responsibility of the investigator to be circumspect and cautious in drawing conclusions.

SEYMOUR KESSLER

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Defoliants: Orange, White, and Blue

Galston points out (Letters, 25 Apr.) in his comments on the military uses of defoliants in Vietnam that the Department of Defense, according to Tschirley, is using picloram because there is not enough 2,4-D type herbicide produced in the United States to satisfy military requirements in Vietnam.

We recently returned from a short visit there and were told by chemical operations officers in Saigon that the reasons for the increased use of picloram are due to certain characteristics of agent Orange (2,4-D and 2,4,5-T) and agent White (picloram and 2,4-D). Drifting of the highly volatile agent Orange from target areas into the environs of Saigon poses a threat to crops and fruits in friendly areas. During trips around Saigon we saw much evidence of defoliation probably caused by this drifting. According to these officers, in the III Corps area, White is now being used almost exclusively because it is much less volatile than Orange and thus does not drift. In regions where there is little agriculture, however, Orange is preferred because it is more economical.

They also stated that in Vietnam now Orange constitutes about 50 percent of the total herbicides used, White 35 percent, and Blue (cacodylic acid) 15 percent. For whatever reasons, it is certain that use of White for defoliation in Vietnam is increasing despite the threat to Vietnamese agriculture by its persistence in the soil.

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Recent letters by biologists indicate overriding concern for the effects of defoliation in Vietnam on plants and animals there. Strangely, these letters pay little or no attention to the purpose of defoliating these jungle areas: namely, to save American and South Vietnamese lives. The concern is almost exclusively for plants and animals. No wonder that the opinions of most academic and scientific people regarding national and international matters command little respect. These opinions are too narrowly based on highly specialized interests; that is, the fate of a