

**DISRUPTION OF SPERM PRODUCTION AND PUBERTY IN MICE BY
GREAT LAKES CONTAMINANTS**

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ABSTRACT

Reproductive effects of Great Lakes contaminants were investigated. Lactating C57BL/6J mice were fed diets containing 60% Great Lakes carp (Diet G). The two control treatment diets contained either only Lab Chow (Diet C) or 60% of fish-farm raised carp (Diet F). The offspring (F-1) were continued on the same treatment from weaning through the termination of the study. Although no apparent effect on sperm quality and breeding ability was observed in young F-1 males at 8 and 11 weeks of age, reduced sperm production and fertility were observed in one-year- and 15-month-old males. In the F-1 females, a delayed vaginal opening was observed.