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*Reproductive synchrony in populations can ameliorate the effects of adult-on-juvenile cannibalism.* Preliminary report.

Ovulation synchrony has been found in humans, rats, and birds. Field studies of two species of colonial gulls demonstrate ovulation synchrony, with the level of synchrony increasing with nest density. These birds also cannibalize eggs during times of decreased resource availability. We consider proof-of-concept models of populations with adult-on-juvenile cannibalism and reproductive synchrony. The models suggest that cannibalism may be an adaptive response to decreased resource and, in turn, reproductive synchrony may be an adaptive response to cannibalism. (Received September 10, 2013)