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## Reproductivity of Cloned Male Cat

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Many reports indicate that male and female clones, in a range of species, display normal fertility with both natural mating and various assisted reproductive technologies. This study was designed to investigate reproductive characteristics by natural mating of normal female cats with cloned male cats produced by somatic cell nuclear transfer and sexual behavior variation among cloned cat. In this study, four cloned cats produced in our laboratory, Sunchon National University during last years were utilized. Four adult female cats free of reproductive problems were treated with PMSG 100 IU/ml and monitored daily for signs of estrus. Queens were individually housed with one of four cloned male cat for 3 days and monitored for mating behavior. Successful copulation was confirmed when females raised a sharp cry, showed an aggressive reaction by turning toward the male, usually rolled on the ground, and subsequent disengagement of the males. One of four cloned cats that copulated resulted in pregnancy. The female cat delivered two kittens, one live (birth weight 82 g) and another stillborn (birth weight 75 g) on day 65 gestation.

Keywords: *cloned cat, copulation, pregnancy, sexual behavior,*

This study was supported by KOSEF (grant # M10525010001-05N2501 -00110).