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Annual variations in sexual hormones and births' frequency in female stump-tailed macaques (*Macaca arctoides*)

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- 2 macaques (Macaca arctoides)
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15 Abstract

- Although the breeding seasonality in *Macaca arctoides* have been studied over a long
- period of time, it is still controversial whether reproduction in this primate tend to increase
- during certain months of the year as it happens in most of the macaque species. Many
- 19 authors have classified *Macaca arctoides* as not being seasonal species. Nonetheless, there
- 20 were no reports, about seasonal variations of female sexual hormones to demonstrate that
- 21 asseveration. Therefore, in the present study we collect 1611 fecal samples from June 2009
- 22 to November 2010 from 10 female stump-tailed macaques to measure 17β-estradiol and
- progesterone concentrations. Also, we included the birth frequency per year, in order to
- 24 identify if sexual hormones peaked at a certain period of the year, thus, births would be
- occurring six months later according to the gestation length of stump-tailed macaques. Our
- 26 results indicate two mating seasons per year in stump-tailed macaques: one in July-August
- and a second one in November. The distribution of the birth frequency, throughout the year
- support these results. We conclude that stump-tail macaques have a discrete seasonality no
- 29 different than most of macaques' species.

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