

**PRELIMINARY CYTOGENETIC INVESTIGATION OF *EUPHLYCTIS CYANOPHLYCTIS*
(ANURA, AMPHIBIA) FROM JAMMU AND KASHMIR, INDIA**

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ABSTRACT

Cytogenetic studies of skitter frog- *Euphlyctis cyanophlyctis* was carried out from Jammu and Kashmir, using conventional staining and banding methods. Karyotypes were prepared by conventional staining in both male and female specimens. Diploid chromosomes number for the species was $2n=26$ and fundamental arm number was $NF=52$. Giemsa stained karyotypes of both male and female comprised of thirteen pairs of biarmed chromosomes divided into two groups: first group of five pairs of larger metacentric or submetacentric chromosomes and second group of eight pairs of smaller metacentric or submetacentric chromosomes. Pair number 2, 3, and 4 among the first group and 9, 10 and 11 among the second group chromosomes. All the other chromosomes in both the groups were metacentric. Meiotic stages observed were leptotene, zygotene, diakinesis, metaphase-I and metaphase-II, from testicular cells of males. C-banding analysis of the species showed presence of centromeric C-bands in all the chromosomes of karyotype. NOR-banding showed presence of a pair of nucleolar organizer regions on the long arm of 10th pair.

KEYWORDS: Cytogenetics, Karyotype, Chromosome, C-Banding, NOR-Banding