



Universität
Basel

Research Project

Genetical effects in small populations

Project funded by own resources

Project title Genetical effects in small populations

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Organisation / Research unit

Departement Umweltwissenschaften / Naturschutzbiologie (Baur)

Project Website <http://conservation.unibas.ch/research/details.php?name=popecology>

Project start 01.01.2002

Probable end 31.12.2010

Status Completed

Population genetics contributes important knowledge to the preservation of species. In endangered species, genetical management of captive populations and of natural populations in isolated habitats is necessary for the short term survival of the species (avoidance of inbreeding) and for the long term maintenance of the adaptability of the species (preservation of genetic diversity). In collaboration with Basel Zoo, we study population genetical aspects of the world wide captive breeding populations of the pygmy hippopotamus, the Indian rhinoceros and other mammal species, to form the basis for the breeding programs.

Keywords captive breeding - inbreeding - outbreeding - genetic diversity - conservation management

Financed by

Other funds

Add publication

Published results

54837, Zschokke, S; Gautschi, B; Baur, B, Polymorphic microsatellite loci in the endangered Indian rhinoceros, *Rhinoceros unicornis*, 1471-8278, Molecular ecology notes, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

55325, Zschokke, S; Baur, B, Inbreeding, outbreeding, infant growth, and size dimorphism in captive Indian rhinoceros (*Rhinoceros unicornis*), 0008-4301, Canadian journal of zoology, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

83638, Krummenacher, Toya S.; Zschokke, Samuel, Inbreeding and outbreeding in African rhinoceros species, *Pachyderm*, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

100365, Zschokke, S, Distorted sex ratio at birth in the captive pygmy hippopotamus, *Hexaprotodon liberiensis*, 0022-2372, Journal of mammalogy, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

986268, Zschokke, Samuel; Armbruster, Georg F. J.; Ursenbacher, Sylvain; Baur, Bruno, Genetic differences between the two remaining wild populations of the endangered Indian rhinoceros (*Rhinoceros unicornis*), 0006-3207, Biological Conservation, Publication: JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

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