



Application Reference No: **NEMA/AGR/133/2019**

Registration No.....0133

Form of Access Permit

This permit is hereby granted to **Mr. Kevin Groen of Passport No. USA NY92F8326, P.O. Box 9500, 2300 RA Leiden, Burgemeester Meineslaan 100A, 3022 BN, Rotterdam, The Netherlands** in accordance with regulation 11 of the Environmental Management and Co-ordination (Conservation of Biological Diversity and sources, Access to Genetic Resources and Benefit Sharing) Regulations, 2006 for the collection of the following genetic resources:

Not more than 12,000 fecal, 1,000 blood, 1,000 tissue and 30,000 hair sample of *Panthera leo* will be collected and exported during the course of the whole study for next generation sequencing to analyze the diet composition under the study: "What's in the diet? Using DNA-based diet analysis to study the effect of human impacts on diet composition in Kenya NPS"

Location at: Amboseli National Park, Meru National Park, Nairobi National Park and Lake Nakuru National Park in Kajiado, Meru, Nairobi and Nakuru Counties.

This permit is issued subject to the Regulations and all agreements concluded pursuant to its grant, and may be suspended, cancelled or revoked should the holder breach any of those agreements and the conditions of issue and those contained in the Regulations.

Mr. Mr. Kevin Groen being the holders of this permit, including their agents and assignees, undertake to abide by the conditions of this permit and to promptly report to the National Environment Management authority (NEMA) any matter that may prejudice the interests of Kenya and other parties concluded pursuant to the grant of this permit.

Signed: 

Director General,

National
Environment

Environment

Date: 28.6.2019

Management

Authority



ISO 9001 : 2008 Certified

Third Schedule

PERMIT CONDITIONS:-NEMA/AGR/133/2019

1. This approval shall be **valid for 12 months** from the date of issuance and shall not be transferable.
2. This approval is for accessing **Not more than 12,000 fecal samples collected in 2 milliliter eppendorf tubes, 1,000 blood, 1,000 tissue and 30,000 hair sample of Panthera leo will be collected and exported during the course of the whole study for next generation sequencing to analyze the diet composition under the study: "What's in the diet? Using DNA-based diet analysis to study the effect of human impacts on diet composition in Kenya NPS"** to be exported to Panthera Leo Foundation, Wageningen, The Netherlands and Department of Environmental Biology, Institute of Environmental Sciences, Leiden University, Netherlands for advanced DNA analysis.
3. The samples shall retain their original KWS references. The accessed genetic resources and its derivatives shall be strictly held in KWS, and Department of Environmental Biology, Institute of Environmental Sciences, Leiden University, Netherlands.
4. You shall ensure that all sampled voucher are well treated and preserved using the provided standards and procedures before storage at NMK and export Department of Environmental Biology, Institute of Environmental Sciences, Leiden University, Netherlands.
5. You shall ensure that the basic analysis of the genetic resource such as identification, cataloging, analyzing and preservation of the samples to good laboratory standards are done locally at the KWS. You shall ensure that the local partner KWS is involved in the collection, identification and preparations of the samples for export.
6. The Intellectual Property Rights (IPR) generated from the accessed genetic resources and associated knowledge shall be jointly owned by all partners including NEMA and KWS.
7. The genetic resource and the derivative shall not be transferred to a third party without the consent of the genetic resource providers KWS, and NEMA.
8. The genetic resource and the derivative shall not be used for commercial or profit purpose without understanding from genetic resource providers KWS, and NEMA.
9. You shall deposit and keep records of all duplicates of the genetic resources with the relevant lead agency, KWS and provide evidence of deposition to NEMA.
10. You shall ensure that there is reasonable access by all Kenyan citizens to all genetic resources and information collected whether such genetic resources and intangible components including digital sequencing are held locally or abroad.
11. Ensure that all agreements entered into with respect to access of genetic resources shall be strictly for the purposes for which they were entered into. You shall abide by the provision of the PIC, MAT and the Material Transfer Agreements entered with the providers of genetic resources.
12. You shall ensure that the local community/s Traditional knowledge on the genetic **resources including Digital Sequence Information (DSI)/ Synthetic Biology** and their uses are well safeguarded.
13. You shall furnish quarterly reports to NEMA on the status of research, including all discoveries from research involving genetic resources and/or intangible components. You shall comply with the improvement orders issued by NEMA's environmental inspectors throughout the project cycle.
14. NEMA reserves the right to suspend, cancel, revoke or vary this permit in the event of a breach of the conditions stated herein or any contravention to the Environmental Management and Coordination Act, CAP 387 and regulations thereunder.
15. Upon the completion of the intended studies, you shall return the remaining genetic resource to Kenya and deposit with the relevant lead agency KWS and notify NEMA of the return.