



Application Reference No: **NEMA/AGR/101/2018**

Registration 83

Form of Access Permit

This permit is hereby granted to **Dr. Jakob Bro-Jorgensen UK Passport No. 206907673 3 Raby Close, Heswall CH60 OEA, Institute of Integrative Biology, University of Liverpool, Leahurst Campus, Neston CH 647TE**, in accordance with regulation 11 of the Environmental Management and Co-ordination (Conservation of Biological Diversity and Resources, Access to Genetic Resources and Benefit Sharing) Regulations, 2006 for the collection of the following genetic resources:

Not more than 2240 larval samples from individual host (or 224 pooled samples; up to approximately 200 adult helminths; up to approx. 100 samples of ova from 10 individuals hosts (focal study species include; the common wild and domestic herbivores thompson gazelles, Grants gazelles, Impala, topi, hartebeest, wildebeest, eland, buffalo, warthog, zebra, giraffe, cattle, sheep and goats). Other works include parasitological analysis, conducting fecal egg counts, setting up larval cultures for the project: **Behavioural strategies in savanna herbivores: Interspecific parasite transmission at the wildlife-livestock interface as a driver of community structure** For EXPORT,

Location : Narok County Mara division (1°01'-1°32'S, 34°57'-35°21')

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.

Dr. Jakob Bro-Jorgensen of University of Liverpool being the holder of this permit, including his agents and assignees, undertake to abide by the conditions of this permit and to promptly report to the National Environment Management Authority any matter that may prejudice the interests of Kenya and other parties concluded pursuant to the grant of this permit.

Signed: _____

Date: **26.06.2018**

Director General,

National Environment Management Authority

R.T.O.



ISO 9001 : 2008 Certified

PERMIT CONDITIONS:-NEMA/AGR/101/2018

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 2240 larval samples from individual host (or 224 pooled samples: up to approximately 200 adult helminths: up to approx. 100 samples of ova from 10 individuals hosts (focal study species include; the common wild and domestic herbivores thompson gazelles, Grants gazelles, Impala, topi, hartebeest, wildebeest, eland, buffalo, warthog, zebra, giraffe, cattle, sheep and goats). r.~~
3. You shall provide the exported list and quantity of all collected samples to KWS and NEMA.
4. ~~The parasites samples~~ shall retain their original KWS/references.
5. The accessed genetic resources and its derivatives shall be strictly be held in KWS and University of Liverpool, UK.
6. You shall ensure that the snails, nematode parasites that utilize the snails, schistosomes and non schistosomes are well treated and preserved using the provided standards before export.
7. You shall ensure that the basic analysis of the genetic resource such as identification, cataloging, analyzing processing larval cultures incl. fixation and archiving first-stage larvae, and preservation of the samples to good laboratory standards are done locally. Further analysis shall be done in University of Liverpool. You shall ensure that the local partner: KWS is involved in the collection, identification and preparations of the samples for export.
8. The genetic resource and the derivative shall not be transferred to a third party without the consent of the genetic resource providers and NEMA. The genetic resource and the derivative shall not be used for commercial or profit purpose without understanding from genetic resource providers 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 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 sequences 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.

9276

National Environment Management Authority

P.O. Box 67839 - 00200

Nairobi, Kenya

Tel: 020 600 55 22 / 3/6/7 Fax: 020 600 19 45

www.nema.go.ke Email: dgnema.go.ke



nema
managing your world with wisdom

Time:

Date:

Receipt No.

Date:

Account Code:

Name:

Amount in words:

Cash Amount

Cheque

Being Payment of

Your account has been credited with the value of this receipt.

With Thanks

Signature

For NEMA - Kenya

Amount to

Total Amount

Change

