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Supplement of

Genotyping of non-human primate models: perspectives and challenges for the implementation of the “three R’s”

T. Haus et al.

Correspondence to: T. Haus (thaus@dpz.eu)

Items of the Online Survey

1. Are the native countries of origin known for the primates *housed* at your facility?

- Yes.
- No.
- Not of all individuals.
- I do not know.
- We do not house primates.

2. Are the native countries of origin known for your *test animals*?

- Yes.
- No.
- Not of all individuals.
- I do not know.
- I do not conduct experiments with primates.

3. Are there hybrid animals between different species at your facility?

- No, we keep/breed only pure species.
- Yes, we have hybrids.
- We are not aware of hybrids.
- I do not know.
- We do not house primates.

4. Are hybrids between different species used for experiments at your facility?

- No, we use only pure-bred species.
- Yes, we also use hybrids.
- We are not aware of hybrids.
- We do not conduct experiments with primates.
- I do not know.

5. Do you prefer animals from specific geographic regions/populations for your experiments?

- Yes.
- No.
- No, but we consider specific species.
- We do not conduct experiments with primates.

6. Does your facility maintain pure breeding lineages from specific geographic regions/populations by selective breeding/purchasing?

- Yes.
- No.
- No, but we purchase/breed only pure species.
- I do not know.
- We do not house primates.

7. Do you genotype animals housed at your facility?

If appropriate, you can choose more than one answer within a category.

Yes, we genotype all individuals of our facility

- to detect potential hybrids.
- to determine (sub)species/geographic origin.
- to determine haplo-/genotypes.

Yes, we genotype individuals of certain genera/species

- to detect potential hybrids.
- to determine (sub)species/geographic origin.
- to determine haplo-/genotypes.
- No.
- We do not house primates at our facility.
- I do not know.

7b. You have chosen “Yes, we genotype individuals of certain genera/species”. Please indicate which genera and if appropriate name also the species.

You can name more than one species by comma separation.

Macaca _____

Chlorocebus _____

Papio _____

Callithrix _____

Aotus _____

Saimiri _____

Other: _____

No specification

8. Do you genotype test animals prior to your experiments?

If appropriate, you can choose more than one answer within a category.

Yes, always

- to detect potential hybrids.
- to determine (sub)species/geographic origin.
- to determine haplo-/genotypes.

Yes, depending on the experiment

- to detect potential hybrids.
- to determine (sub)species/geographic origin.
- to determine haplo-/genotypes.
- No.
- I do not conduct experiments with primates.

8b. You have chosen “Yes, we genotype test animals depending on the experiment.” Please specify in which research area(s) you use to genotype test animals prior to the experiment.

- Neurosciences
- Infectious diseases
- Vaccine development
- Drug efficacy/safety testing
- Others: _____
- No specification.

9. Do you think there are possible hindrances or limiting factors in conducting genotyping of breeding and test animals?

Yes,

- limited budget
- cost benefit ratio too high
- limited time
- limited staff
- other factors: _____
- No.
- I do not know.

10. Do you think there are factors that might impede the implementation of genotyping results in primate research, breeding or husbandry?

Yes, there might be difficulties with

- selective breeding (e.g., artificial insemination, group housing).
- maintenance of genetic diversity.
- limited number of individuals with a specific genotype.
- other difficulties: _____
- No.
- I do not know.
- Further comments: _____

11. Several researchers argue that genotyping prior to experiments would reduce the number of test animals and at the same time improve the reliability and quality of the results.

- I agree.
- I disagree.
- I do not have an opinion.
- comment (optional): _____

12. Have you ever experienced an influence of genetic variation in non-human primates on your experimental approaches or results?

- Yes.
- No.
- We did not test this before.
- I do not conduct experiments with primates.

12b. You already experienced an influence of genetic variation on your experimental approaches or results. Please specify in which discipline(s).

- Infectious diseases
- Neurosciences
- Drug efficacy/safety testing
- Vaccine development
- Other: _____
- No specification

13. If you would conduct genotyping, which method(s) would you prefer?

You are allowed to choose more than one option.

- Whole-genome sequencing
- Whole-exome sequencing
- Single Nucleotide Polymorphism (SNP) genotyping
- Short Tandem Repeats (STR) genotyping
- Mitochondrial DNA analysis
- Y-chromosomal DNA analysis
- Major histocompatibility complex (MHC) genotyping
- Other method(s): _____
- I have no opinion.

Questions - Background data

A. What is your current position?

This information is really important for the analysis of the data!

You can choose more than one option.

- Researcher
- Breeding/colony manager
- Primate husbandry/welfare
- Project/product manager
- Veterinarian
- Other: _____
- No specification

B. In what kind of institution/department do you work?

You can choose more than one option.

- Pharmaceutical industry/research contract
- Academic/research institute
- Breeding facility
- Other: _____
- No specification

C. Where is your facility located?

- North America
- South America
- Europe
- China
- India
- Southeast Asia
- Africa
- Mauritius
- No specification

D. Which primate genera are housed at your facility?

Please tick for each genus.

- Macaca*
- Chlorocebus*
- Papio*
- Callithrix*
- Aotus*
- Saimiri*
- Other: _____
- No specification
- We do not house primates.

E. Which primate genera do you use for your experiments?

Please tick for each genus.

- Macaca*
- Chlorocebus*
- Papio*
- Callithrix*
- Aotus*
- Saimiri*
- Other: _____
- No specification
- I do not conduct experiments with primates.

F. How many animals do you house at your institute?

Please choose the appropriate category.

- <100
- >101
- I do not know.
- We do not house primates.
- No specification