BR-code: Vertebrates

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A dynamic resource for profiling environmental DNA reference database accuracy and completeness

Authors

Thomas Luypaert[1], Tomas Hrebek[2,3], Izeni Farias[2,3], Carlos Peres[4,5], Torbjørn Haugaasen[1]

(1) Tropical Rainforest Ecology Lab (TREcoL), Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences, Ås, Norway
Corresponding email: thomas.luypaert@nmbu.no or thomas.luypaert@outlook.com

(2) Affiliation Izeni and Tomas

(3) Affiliation 2 Izeni and Tomas

(4) Affiliation Carlos

(5) Affiliation two Carlos

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Abstract

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```
# Over 75% percent of the world's food crops are dependent on pollinators to at least some de
```

How to cite this:

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# this dynamic document directly: J. Reilly, A. Allen-Perkins, R. Winfree, I. Bartomeus. r su
#
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```

Download in PDF:

https://github.com/ThomasLuypaert/BarcodeBrazil/Report_BarcodeBrazil.pdf

Source code:

You can find the source code, as well as previous releases of this repository at: https://github.com/ThomasLuypaert/BarcodeBrazil

Introduction

Write paper introduction here

Methods

Modify with methods

1. Building barcode-specific reference databases

Several approaches and associated tools are available to build barcode-specific reference databases, including `CRABS`, `rCRUX`, `RESCRIPt`, `METACURATOR`, and `ECOPCR`, among other (sources). Previous work has demonstrated the

Here, we make use of `CRABS` and `rCRUX` to build custom reference databases for X commonly used vertebrate barcodes: (i) 12S MiMammal (source); (ii) 12S Riaz (source); (iii) some other barcode; (iv) a final barcode.

CRABS reference database

First, we retrieved sequencing data for each barcode from up to four online repositories: (i) National Centre for Biotechnology Innovation (NCBI - 12S MiMammal, 12S Riaz, more options here); Barcode of Life Data System (BOLD - options here); European Molecular Biology Laboratory (EMBL - options here); and the Mitochondrial Genome Database of Fish (MitoFish

- 12S MiMammal, 12S Riaz). We fine-tuned our search to contain only relevant sequences using database-specific search queries (Table X).

These we supplemented by: … MIDORI…

Table 1: **Table 1**:

Database	Search query	Explanation
NCBI	–database nucleotide –query '12S[All Fields] AND ("1"[SLEN] : "50000"[SLEN])'	Restricts the search to 12S sequences no longer than 50,000 bp.
BOLD	–database 'Actinopterygii|Aves|Mammalia|Reptilia|Amphibia'	Restricts the search to ray-finned fish, birds, mammals, reptiles and amphibians.
EMBL	–database 'vrt*'	Restricts the search to vertebrates.
MitoFish	No search query	Already restricted to mitochondrial sequences of fish species.

PART2

PART 3

Results

1) Question 1 ?

Observations here

Fig 1: A figure caption here

2) Question 2?

Fig 2: Another caption

Some more text about observations here

Fig 3: Another caption

3) Question 3?

Some dynamic text here, see example below

Fig 4: Another caption.

4) Question 4?

Some more supporting text.

Fig 5: Final caption

What next?

Some text here

References

Modify with scientific references