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Reporting Summary

Life sciences

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see <u>Authors & Referees</u> and the <u>Editorial Policy Checklist</u>.

Statistics	
For all statistical analyse	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.
n/a Confirmed	
The exact sam	ple size (n) for each experimental group/condition, given as a discrete number and unit of measurement
A statement o	n whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	test(s) used AND whether they are one- or two-sided sets should be described solely by name; describe more complex techniques in the Methods section.
A description of	of all covariates tested
A description of	of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
X	on of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
	hesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted exact values whenever suitable.
For Bayesian a	nalysis, information on the choice of priors and Markov chain Monte Carlo settings
For hierarchical	al and complex designs, identification of the appropriate level for tests and full reporting of outcomes
Estimates of e	ffect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated
	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.
Software and c	ode
Policy information abou	ıt <u>availability of computer code</u>
Data collection	We only provide example codes, and did not carry out any analyses for this protocol paper. We added all the relevant links to the software tools in the protocols paper. All software tools are open source.
Data analysis	We only provide example codes, and did not carry out any analyses for this protocol paper.
	m algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. leposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.
Data	
- Accession codes, uni - A list of figures that h	It <u>availability of data</u> It <u>availability of data</u> Include a <u>data availability statement</u> . This statement should provide the following information, where applicable: que identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability
The example data is provi	ded in the Supplementary Material
Field-speci	fic reporting

Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.

Ecological, evolutionary & environmental sciences

Behavioural & social sciences

Ecological, evolutionary & environmental sciences study design

these points even when the disclosure is negative.
We describe a method to carry out in-situ DNA barcoding to monitor biodiversity. DNA from samples is extracted, amplified, and sequenced on the MinION sequencing device
The protocol can be used for all sample types. We submitted 1,000 reads of fish data with the protocol as an example for the bioinformatic processing. We chose these, because we have a different study on them. They are commercially available food species.
NA NA
NA NA
NA
NA
The protocol is based on experiences gained from many different published research studies.
NA .
NA
work? Yes No
r specific materials, systems and methods uthors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material,
Methods Involved in the study ChIP-seq MRI-based neuroimaging MRI-based neuroimaging
Methods n/a Involved in the study ChIP-seq Flow cytometry MRI-based neuroimaging
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Methods n/a Involved in the study ChIP-seq Flow cytometry MRI-based neuroimaging reganisms ticipants Corganisms ticipants ARRIVE guidelines recommended for reporting animal research

Note that full information on the approval of the study protocol must also be provided in the manuscript.

No ethical approval or guidance was needed.

Ethics oversight