### <u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

### **Materials**

Antibodies	Yes (indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier	General histological procedures, cell counting, and	
name, catalogue number and RRID, if available.	imaging	

Cell materials	Yes (indicate where provided: page no/section/legend)	n/a
Cell lines: Provide species information, strain.		Χ
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
<b>OR</b> RRID		
Primary cultures: Provide species, strain, sex of		Х
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: page no/section/legend)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID	Animals	
Animal observed in or captured from the field: Provide species, sex and age where possible		Х
Model organisms: Provide Accession number in repository (where relevant) OR RRID		Х

Plants and microbes	Yes (indicate where provided: page no/section/legend)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location		Х
for collected wild specimens)		
Microbes: provide species and strain, unique		Χ
accession number if available, and source		

Human research participants	Yes (indicate where provided: page no/section/legend)	n/a
Identify authority granting ethics approval (IRB or		Х
equivalent committee(s), provide reference number		
for approval.		
Provide statement confirming informed consent		Χ
obtained from study participants.		
Report on age and sex for all study participants.		Χ

# <u>Design</u>

Study protocol	Yes (indicate where provided: page no/section/legend)	n/a
For clinical trials, provide the trial registration		Х
number <b>OR</b> cite DOI in manuscript.		

Laboratory protocol	Yes (indicate where provided: page no/section/legend)	n/a
Provide DOI or other citation details if detailed step-		Χ
by-step protocols are available.		

Experimental study design (statistics details)	Yes (indicate where provided: page no/section/legend)	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Based on past experience with assays	
Randomisation		x
Blinding	Mechanical sensitivity, Emotional discrimination, General	
	histological procedures, cell counting, and imaging	
Inclusion/exclusion criteria	Throughout methods section	

Sample definition and in-laboratory replication	Yes (indicate where provided: page no/section/legend)	n/a
State number of times the experiment was replicated in laboratory	The social transfer paradigm was replicated with each control group (Fig 1-5) and conducted by 2 different experimenters (Smith (Fig 1-4) and Asada (Fig 2,4-5))	
Define whether data describe technical or biological replicates	The effect is replicated in different animals (biological), and 2 experimenters replicated the findings (technical)	

Ethics	Yes (indicate where provided: page no/section/legend)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		Х
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Stanford University Administrative Panel on Laboratory Animal Care, animal protocol 10322	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		Х

Dual Use Research of Concern (DURC)	Yes (indicate where provided: page no/section/legend)	n/a
If study is subject to dual use research of concern,		Χ
state the authority granting approval and reference		l
number for the regulatory approval		

# <u>Analysis</u>

Attrition	Yes (indicate where provided: page no/section/legend)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	General histological procedures, cell counting, and imaging	

Statistics	Yes (indicate where provided: page no/section/legend)	n/a
Describe statistical tests used and justify choice of	Table S1A-E details all statistics	
tests.		

Data Availability	Yes (indicate where provided: page no/section/legend)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	All data are available in the main text or the supplementary materials. Additional data is stored on google drive as well as on external hard drives (property of the Malenka lab at Stanford University) and may be requested from the authors.	
If data are publicly available, provide accession number in repository or DOI or URL.		Х
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		Х

Code Availability	Yes (indicate where provided: page no/section/legend)	n/a
For all newly generated code and software essential		
for replicating the main findings of the study:		
State whether the code or software is available.		Х
If code is publicly available, provide accession		Х
number in repository, or DOI or URL.		

# Reporting

Adherence to community standards	Yes (indicate where provided: page no/section/legend)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific		
guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.		Х