# nature neuroscience

Corresponding Author:	Tian-Ming Gao	# Main Figures:		5
Manuscript Number:	NN-A41450B	# Supplementary F	- igures:	7
Manuscript Type:	Article	# Supplementary T	— Гables:	0
		# Supplementary \	/ideos:	0

## Reporting Checklist for Nature Neuroscience

This checklist is used to ensure good reporting standards and to improve the reproducibility of published results. For more information, please read Reporting Life Sciences Research.

Please note that in the event of publication, it is mandatory that authors include all relevant methodological and statistical information in the manuscript.

#### ▶ Statistics reporting, by figure

- Please specify the following information for each panel reporting quantitative data, and where each item is reported (section, e.g. Results, & paragraph number).
- Each figure legend should ideally contain an exact sample size (n) for each experimental group/condition, where n is an exact number and not a range, a clear definition of how n is defined (for example x cells from x slices from x animals from x litters, collected over x days), a description of the statistical test used, the results of the tests, any descriptive statistics and clearly defined error bars if applicable.
- · For any experiments using custom statistics, please indicate the test used and stats obtained for each experiment.
- Each figure legend should include a statement of how many times the experiment shown was replicated in the lab; the details of sample collection should be sufficiently clear so that the replicability of the experiment is obvious to the reader.
- For experiments reported in the text but not in the figures, please use the paragraph number instead of the figure number.

Note: Mean and standard deviation are not appropriate on small samples, and plotting independent data points is usually more informative. When technical replicates are reported, error and significance measures reflect the experimental variability and not the variability of the biological process; it is misleading not to state this clearly.

		TEST US	SED		n		DESCRIPTIVE S (AVERAGE, VARIA		P VALUE		DEGREES OF FREEDOM & F/t/z/R/ETC VALUE	
	FIGURE NUMBER	WHICH TEST?	SECTION & PARAGRAPH #	EXACT VALUE	DEFINED?	SECTION & PARAGRAPH#	REPORTED?	SECTION & PARAGRAPH #	EXACT VALUE	SECTION & PARAGRAPH#	VALUE	SECTION & PARAGRAPH #
example	1a	one-way ANOVA	Fig. legend	9, 9, 10, 15	mice from at least 3 litters/group	Methods para 8	error bars are mean +/- SEM	Fig. legend	p = 0.044	Fig. legend	F(3, 36) = 2.97	Fig. legend
example	results, para 6	unpaired t- test	Results para 6	15	slices from 10 mice	Results para 6	error bars are mean +/- SEM	Results para 6	p = 0.0006	Results para 6	t(28) = 2.808	Results para 6

		TEST USED		n		DESCRIPTIVE STATS (AVERAGE, VARIANCE)		P VALUE		DEGREES OF FREEDOM & F/t/z/R/ETC VALUE		
	FIGURE NUMBER	WHICH TEST?	SECTION & PARAGRAPH #	EXACT VALUE	DEFINED?	SECTION & PARAGRAPH #	REPORTED?	SECTION & PARAGRAPH #	EXACT VALUE	SECTION & PARAGRAPH #	VALUE	SECTION & PARAGRAPH #
+	1h	unpaired t- test	Fig. legend	10,10	nuclei from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SD	Fig. legend	p=2.3E-14	Fig. legend	t(18)=21.706	Fig. legend
+	1h	unpaired t- test	Fig. legend	10,10	nuclei from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SD	Fig. legend	p=1.8E-08	Fig. legend	t(18)=9.552	Fig. legend
+	resul ts, para 3	unpaired t- test	results, para 3	20,31	nuclei from 3 independent cultures from at least 3 litters	results, para 3; Methods para 5	error bars are mean+/- SEM	result s, para 3	p=2.81E-13	results, para 3	t(49)=9.900	results, para 3
+	2c	one-way ANOVA	Fig. legend	15,15,15, 15,15	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=4.70E-07	Fig. legend	F(4,70)=11.15	Fig. legend
+	2e	unpaired t- test	Fig. legend	8,8	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=2.56E-05	Fig. legend	t(14)=6.14	Fig. legend
+	resul ts, para 5	unpaired t- test	results, para 5	25,25	nuclei from 3 independent cultures from at least 3 litters	results, para 5; Methods para 5	error bars are mean+/- SEM	Meth ods para 15	p=1.16E-10	results, para 5	t(48)=8.185	results, para 5
+	resul ts, para 5	unpaired t- test	results, para 5	22,22	nuclei from 3 independent cultures from at least 3 litters	results, para 5; Methods para 5	error bars are mean+/- SEM	Meth ods para 15	p=2.12E-08	results, para 5	t(42)=6.886	results, para 5
+	2h	one-way ANOVA	Fig. legend	11,8,12,8 ,10,10	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=2.50E-13	Fig. legend	F(5,53)=26.554	Fig. legend
+	2i	one-way ANOVA	Fig. legend	5,6,6,5,	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.001602	Fig. legend	F(3,18)=7.723	Fig. legend
+	3a	one-way ANOVA	Fig. legend	4,4,4	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.75E-05	Fig. legend	F(2,9)=46.812	Fig. legend
+	3a	one-way ANOVA	Fig. legend	4,4,4	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00176	Fig. legend	F(2,9)=13.912	Fig. legend
+	3a	one-way ANOVA	Fig. legend	4,4,4	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.86881	Fig. legend	F(2,9)=0.143	Fig. legend
+	3с	one-way ANOVA	Fig. legend	5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=3.89E-06	Fig. legend	F(2,12)=41.850	Fig. legend

+	3e	one-way ANOVA	Fig. legend	5,5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00928	Fig. legend	F(3,16)=5.398	Fig. legend
+	3g	one-way ANOVA	Fig. legend	5,5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00096	Fig. legend	F(3,16)=9.082	Fig. legend
+	3i	one-way ANOVA	Fig. legend	5,5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00213	Fig. legend	F(3,16)=7.668	Fig. legend
+	3ј	one-way ANOVA	Fig. legend	5,5,5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=5.64E-06	Fig. legend	F(4,20)=15.762	Fig. legend
+	4b	one-way ANOVA	Fig. legend	5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=4.98E-05	Fig. legend	F(2,12)=25.285	Fig. legend
+	4b	one-way ANOVA	Fig. legend	5,5,5	5 coverslips of cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=3.15E-05	Fig. legend	F(2,12)=27.764	Fig. legend
+	4c	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.001478	Fig. legend	F(2,6)=23.339	Fig. legend
+	4c	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.89607	Fig. legend	F(2,6)=0.112	Fig. legend
+	4c	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00534	Fig. legend	t(4)=-5.496	Fig. legend
+	4c	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.009334	Fig. legend	t(4)=4.696	Fig. legend
+	4d	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.000904	Fig. legend	F(2,6)=28.022	Fig. legend
+	4d	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.990074	Fig. legend	F(2,6)=0.009992	Fig. legend
+	4d	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00353	Fig. legend	t(4)=6.157	Fig. legend
+	4d	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00823	Fig. legend	t(4)=4.868	Fig. legend
+	4e	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.000478	Fig. legend	F(2,6)=35.382	Fig. legend

+	4e	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.896342	Fig. legend	F(2,6)=0.111	Fig. legend
+	4e	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=4.29E-05	Fig. legend	t(4)=-19.252	Fig. legend
+	4e	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.002336	Fig. legend	t(4)=6.882	Fig. legend
+	4f	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.018408	Fig. legend	F(2,6)=8.362	Fig. legend
+	4f	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.159745	Fig. legend	F(2,6)=0.160	Fig. legend
+	4f	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.007601	Fig. legend	t(4)=-4.979	Fig. legend
+	4f	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.00568	Fig. legend	t(4)=5.403	Fig. legend
+	4g	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.001153	Fig. legend	F(2,6)=25.613	Fig. legend
+	4g	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.929327	Fig. legend	F(2,6)=0.074	Fig. legend
+	4g	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.003424	Fig. legend	t(4)=-6.209	Fig. legend
+	4g	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.003976	Fig. legend	t(4)=5.961	Fig. legend
+	4h	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.011093	Fig. legend	F(2,6)=10.451	Fig. legend
+	4h	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.929015	Fig. legend	F(2,6)=0.075	Fig. legend
+	4h	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.009406	Fig. legend	t(4)=-4.686	Fig. legend
+	4h	unpaired t- test	Fig. legend	3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.002989	Fig. legend	t(4)=6.441	Fig. legend
+	5b	one-way ANOVA	Fig. legend	20,20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.007005	Fig. legend	F(2,57)=5.419	Fig. legend

+	5b	one-way ANOVA	Fig. legend	20,20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=6.22E-08	Fig. legend	F(2,57)=22.513	Fig. legend
+	5b	unpaired t- test	Fig. legend	20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.010283	Fig. legend	t(38)=-2.7004	Fig. legend
+	5d	unpaired t- test	Fig. legend	20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.000107	Fig. legend	t(38)=4.324	Fig. legend
+	5d	unpaired t- test	Fig. legend	20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.001494	Fig. legend	t(38)=-3.424	Fig. legend
+	5d	unpaired t- test	Fig. legend	20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.17E-09	Fig. legend	t(38)=7.990	Fig. legend
+	5f	one-way ANOVA	Fig. legend	20,20,20, 20,20,20, 20,20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=6.8E-08	Fig. legend	F(7,152)=7.641	Fig. legend
+	S2b	unpaired t- test	Fig. legend	25,25	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.83E-07	Fig. legend	t(48)=6.090	Fig. legend
+	S2c	unpaired t- test	Fig. legend	25,25	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=2.67E-07	Fig. legend	t(48)=5.982	Fig. legend
+	S3a	one-way ANOVA	Fig. legend	3,3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=9.47E-06	Fig. legend	F(3,8)=57.272	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.77E-05	Fig. legend	F(2,6)=112.05	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.7E-06	Fig. legend	F(2,6)=248.598	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=2.47E-05	Fig. legend	F(2,6)=99.985	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.09E-05	Fig. legend	F(2,6)=132.383	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=2.84E-05	Fig. legend	F(2,6)=95.383	Fig. legend
+	S5	one-way ANOVA	Fig. legend	3,3,3	cells from 3 independent cultures from at least 3 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=1.09E-05	Fig. legend	F(2,6)=132.288	Fig. legend
+	S6b	one-way ANOVA	Fig. legend	20,20,20, 20,20,20, 20	cells from 4 independent cultures from at least 4 litters	Fig. legend	error bars are mean+/- SEM	Fig. legend	p=0.041573	Fig. legend	F(6,133)=2.258	Fig. legend

#### ▶ Representative figures

1. Are any representative images shown (including Western blots and immunohistochemistry/staining) in the paper?

If so, what figure(s)?

2. For each representative image, is there a clear statement of how many times this experiment was successfully repeated and a discussion of any limitations in repeatability?

If so, where is this reported (section, paragraph #)?

Yes. Fig.1 a,b,c,d,e,f; Fig.2 a,b,f,g; Fig.3 a,b,d,f,h,i; Fig.4b; Fig.5 a,c,e; Fig.S1; Fig.S2a; Fig.S3b; Fig.S4c; Fig. S6a

Yes. a statement is reported in figure legends.

#### ▶ Statistics and general methods

1. Is there a justification of the sample size?

If so, how was it justified?

Where (section, paragraph #)?

Even if no sample size calculation was performed, authors should report why the sample size is adequate to measure their effect size.

2. Are statistical tests justified as appropriate for every figure?

Where (section, paragraph #)?

- a. If there is a section summarizing the statistical methods in the methods, is the statistical test for each experiment clearly defined?
- b. Do the data meet the assumptions of the specific statistical test you chose (e.g. normality for a parametric test)?

Where is this described (section, paragraph #)?

c. Is there any estimate of variance within each group of data?

Is the variance similar between groups that are being statistically compared?

Where is this described (section, paragraph #)?

- d. Are tests specified as one- or two-sided?
- e. Are there adjustments for multiple comparisons?
- 3. Are criteria for excluding data points reported?

Was this criterion established prior to data collection?

Where is this described (section, paragraph #)?

No statistical methods were used to predetermine sample sizes but our sample sizes are similar to those reported in previous publications (ref. 50, 54–57).

Yes. Methods paragraph 15.

Yes. Methods paragraph 15 and figure legends.

Yes.

Methods paragraph 15.

Yes

Yes.

Methods paragraph 15.

Yes.

No.

Yes.

Yes.

Methods paragraph 15.

4.	Define the method of randomization used to assign subjects (or samples) to the experimental groups and to collect and process data.	Yes. Data collection and process were both randomized. Methods paragraph 15.
	If no randomization was used, state so.	
	Where does this appear (section, paragraph #)?	
5.	Is a statement of the extent to which investigator knew the group allocation during the experiment and in assessing outcome included?	Yes. Methods paragraph 15.
	If no blinding was done, state so.	
	Where (section, paragraph #)?	
6.	For experiments in live vertebrates, is a statement of compliance with ethical guidelines/regulations included?	Yes. Methods paragraph 2.
	Where (section, paragraph #)?	
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/.	Is the species of the animals used reported?	Yes. Methods paragraph 2.
	Where (section, paragraph #)?	
8.	Is the strain of the animals (including background strains of KO/transgenic animals used) reported?	Yes. Methods paragraph 2.
	Where (section, paragraph #)?	
9.	Is the sex of the animals/subjects used reported?	Yes. Methods paragraph 2.
	Where (section, paragraph #)?	
10	Is the age of the animals/subjects reported?	Yes.
10.		Methods paragraph 2.
	Where (section, paragraph #)?	
11.	For animals housed in a vivarium, is the light/dark cycle reported?	Yes.
	Where (section, paragraph #)?	Methods paragraph 2.
12.	For animals housed in a vivarium, is the housing group (i.e. number of	Yes. Methods paragraph 2.
	animals per cage) reported?	Methous paragraph 2.
	Where (section, paragraph #)?	
13.	For behavioral experiments, is the time of day reported (e.g. light or dark cycle)?	No behavioral experiments.
	Where (section, paragraph #)?	
14.	Is the previous history of the animals/subjects (e.g. prior drug administration, surgery, behavioral testing) reported?	The animal did not receive any drug administration, surgery, behavioral testing before.
	Where (section, paragraph #)?	

	a. If multiple behavioral tests were group of animals, is this reporte		No behavioral tests.
	Where (section, paragraph #)?		
15.	5. If any animals/subjects were excluded fro	m analysis, is this reported?	No excluded animals.
	Where (section, paragraph #)?		
	a. How were the criteria for exclus	sion defined?	
	Where is this described (section		
	h Specific reasons for any discrepa	angu batugan tha number of	
	<ul> <li>Specify reasons for any discrepa animals at the beginning and en</li> </ul>		
	Where is this described (section	, paragraph #)?	
	Dagaranta		
	Reagents		
L.	Have antibodies been validated for use in (assay and species)?	the system under study	Yes.
	a. Is antibody catalog number give	n?	Yes.
	Where does this appear (section	n, paragraph #)?	Methods paragraph 1.
	<ul> <li>b. Where were the validation data</li> </ul>	reported (citation	Yes.
	supplementary information, Ant		Methods paragraph 1.
	Where does this appear (section	n, paragraph #)?	
<u>2</u> .	If cell lines were used to reflect the prope disease state, is their source identified?	rties of a particular tissue or	No cell line is used.
	Where (section, paragraph #)?		
	Were they recently authenticate	ed?	
	Where is this information repor		
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#### ▶ Data deposition

Data deposition in a public repository is mandatory for:

- a. Protein, DNA and RNA sequences
- b. Macromolecular structures
- c. Crystallographic data for small molecules
- d. Microarray data

Deposition is strongly recommended for many other datasets for which structured public repositories exist; more details on our data policy are available here. We encourage the provision of other source data in supplementary information or in unstructured repositories such as Figshare and Dryad.

	1.	Are accession	codes for	deposit	dates	provided?
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Where (section, paragraph #)?

No data deposition.		

#### ▶ Computer code/software

Any custom algorithm/software that is central to the methods must be supplied by the authors in a usable and readable form for readers at the time of publication. However, referees may ask for this information at any time during the review process.

1. Identify all custom software or scripts that were required to conduct the study and where in the procedures each was used.

No custom software.

2. Is computer source code/software provided with the paper or deposited in a public repository? Indicate in what form this is provided or how it can be obtained.

No computer source code is used.

### ▶ Human subjects

1. Which IRB approved the protocol?

Where is this stated (section, paragraph #)?

- No human subject is used.
- 2. Is demographic information on all subjects provided?

Where (section, paragraph #)?

- 3. Is the number of human subjects, their age and sex clearly defined?

Where (section, paragraph #)?

4. Are the inclusion and exclusion criteria (if any) clearly specified?

Where (section, paragraph #)?

5. How well were the groups matched?

Where is this information described (section, paragraph #)?

6.	Is a statement included confirming that informed consent was obtained from all subjects?	
	Where (section, paragraph #)?	
7.	For publication of patient photos, is a statement included confirming that consent to publish was obtained?	
	Where (section, paragraph #)?	
<b>1</b>	MRI studies	
	papers reporting functional imaging (fMRI) results please ensure that the provided in the methods:	nese minimal reporting guidelines are met and that all this
1.	Were any subjects scanned but then rejected for the analysis after the data was collected?	No fMRI result.
	If yes, is the number rejected and reasons for rejection described?	
	Where (section, paragraph #)?	
2.	Is the number of blocks, trials or experimental units per session and/ or subjects specified?	
	Where (section, paragraph #)?	
3.	Is the length of each trial and interval between trials specified?	
4.	Is a blocked, event-related, or mixed design being used? If applicable, please specify the block length or how the event-related or mixed design was optimized.	
5.	Is the task design clearly described?	
	Where (section, paragraph #)?	
6.	How was behavioral performance measured?	
7.	Is an ANOVA or factorial design being used?	
8.	For data acquisition, is a whole brain scan used?  If not, state area of acquisition.	
	a. How was this region determined?	

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9. Is the field strength (in Tesla) of the MRI system stated?	
a. Is the pulse sequence type (gradient/spin echo, EPI/spiral) stated?	
b. Are the field-of-view, matrix size, slice thickness, and TE/TR/ flip angle clearly stated?	
10. Are the software and specific parameters (model/functions, smoothing kernel size if applicable, etc.) used for data processing and pre-processing clearly stated?	
11. Is the coordinate space for the anatomical/functional imaging data clearly defined as subject/native space or standardized stereotaxic space, e.g., original Talairach, MNI305, ICBM152, etc? Where (section, paragraph #)?	
12. If there was data normalization/standardization to a specific space template, are the type of transformation (linear vs. nonlinear) used and image types being transformed clearly described? Where (section, paragraph #)?	
13. How were anatomical locations determined, e.g., via an automated labeling algorithm (AAL), standardized coordinate database (Talairach daemon), probabilistic atlases, etc.?	
14. Were any additional regressors (behavioral covariates, motion etc) used?	
15. Is the contrast construction clearly defined?	
16. Is a mixed/random effects or fixed inference used?	
a. If fixed effects inference used, is this justified?	
17. Were repeated measures used (multiple measurements per subject)?	
a. If so, are the method to account for within subject correlation and the assumptions made about variance clearly stated?	
18. If the threshold used for inference and visualization in figures varies, is this clearly stated?	
19. Are statistical inferences corrected for multiple comparisons?	
a. If not, is this labeled as uncorrected?	

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20. Are the results based on an ROI (region of interest) analysis?		
a. If so, is the rationale clearly described?		
b. How were the ROI's defined (functional vs anatomical localization)?		
21. Is there correction for multiple comparisons within each voxel?		
22. For cluster-wise significance, is the cluster-defining threshold and the corrected significance level defined?		
▶ Additional comments		
Additional Comments		