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Corresponding Author:	Kathryn V. Anderson and Song-Hai Shi	# Main Figures:	7
Manuscript Number:	NN-A48506B	# Supplementary Figures:	15
Manuscript Type:	Article	# Supplementary Tables:	0
		# Supplementary Videos:	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.

| FIGURE NUMBER | TEST USED | | n | | | DESCRIPTIVE STATS (AVERAGE, VARIANCE) | | P VALUE | | DEGREES OF FREEDOM & F/t/z/R/ETC VALUE | |
	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

	FIGURE NUMBER	TEST USED		n				DESCRIPTIVE STATS (AVERAGE, VARIANCE)		P VALUE		DEGREES OF FREEDOM & F/t/z/R/ETC VALUE	
		WHICH TEST?	SECTION & PARAGRAPH #	EXACT VALUE	DEFINED?	SECTION & PARAGRAPH #		REPORTED?	SECTION & PARAGRAPH #	EXACT VALUE	SECTION & PARAGRAPH #	VALUE	SECTION & PARAGRAPH #
+ –	2b	unpaired t-test	Methods para 5	P1: 4,4,4 P14: 3,4	individual brains	Fig. legend		Mean +/- S.D.	Fig. Legend	(P1) (**)p=0.00044 0377 (P1)(n.s.) p=0.705762 (P14)(n.s.) p=0.615884	Fig. Legend	(P1) (**) t=6.94968 df=6 (P1) (n.s) t=0.396059 df=6 (P14) (n.s.) t=0.534523 df=5	not included
+ –	2d	unpaired t-test	Methods para 5	6	slices from different brains	Fig. legend		Mean +/- S.D.	Fig. Legend	(Cux1)(**) p=1.924645e-007 (Cux1)(n.s.) p=0.2419 (CTIP2)(**) p=1.235488e-005 (CTIP2)(n.s.) p=0.0513	Fig Legend	(Cux1)(**) t=12.54 df=10 (Cux1)(n.s) t=1.244 df=10 (CTIP2)(**) t=7.956 df=10 (CTIP2)(n.s.) t=2.213 df=10	not included
+ –	2e	unpaired t-test	Methods Para 5	6	slices from different brains	Fig. Legend		Mean +/- S.D.	Fig Legend	(Cux1)(**) p=0.000146232 2 (Cux1)(n.s.) p=0.117941 (CTIP2)(n.s.) p=0.809039 (CTIP2)(n.s.) p=0.170407	Fig. Legend	(Cux1)(**) t=5.92413 df=10 (Cux1)(n.s.) t=1.71061 df=10 (CTIP2)(n.s.) t=0.809039 df=10 (CTIP2)(n.s.) t=1.47721 df=10	not included
+ –	2h	unpaired t-test	Methods Para 5	4	slices from different brains	Fig. Legend		Mean +/- S.D.	Fig. Legend	(Cux1)(n.s.) p=0.3922 (CTIP2)(n.s.) p=0.2283	Fig Legend	(Cux1)(n.s.) t=0.9219 df=6 (CTIP2)(n.s.) t=1.341 df=6	not included
+ –	2i	unpaired t-test	Methods Para 5	4	slices from different brains	Fig. Legend		Mean +/- S.D.	Fig. Legend	(Cux1)(n.s.) p=0.614403 (CTIP2)(n.s.) p=0.293843	Fig Legend	(Cux1)(n.s.) t=0.531135 df=6.0 (CTIP2)(n.s.) t=1.15017 df=6	not included

+/-	Fig	Statistical test	Methods	n	defined		error bars		exact p values		test statistic values	
+ -	3b	unpaired t-test	Metho ds Para 5	5,4,5	brains	Fig. Legend	Mean +/- S.D.	Fig. Legen d	(WT v Sas4) (all **) black: p=2.618105e-005 Red: p=0.000179496 Blue: p=7.942957e-006 (WT v Sas4p53) black (n.s): p=0.864435 Red(**): p=6.613482e-008 Blue(**): p=6.279737e-006 (Sas4 v Sas4p53) black (**): p=3.207663e-006 Red(**): p=1.920966e-006 Blue(n.s.): p=0.195505	Fig Legend	(WT v Sas4) (all **) black: t=9.69782 df=7 Red: t=7.186861 df=7 Blue: t=11.608 df=7 (WT v Sas4p53) black (n.s): t=0.176305 df=8 Red(**): t= 18.8029 df=8 Blue(**): t=10.4108 df=8 (Sas4 v Sas4p53) black (**): t=13.2827 df=7 Red(**): t=14.3262 df=7 Blue(n.s.): t=13.2827 df=7	not included
+ -	3d	unpaired t-test	Metho ds Para 5	5,4,5	brains	Fig. Legend	Mean +/- S.D.	Fig. Legen d	(WT v Sas4) black (**): p=0.00435901 Red(n.s.): p=0.371786 Blue(**): p=0.00328886 (WT v Sas4p53) Black (n.s): p=0.748185 Red(**): p=6.194247e-008 Blue(**): p=9.599451e-005 (Sas4 v Sas4p53) Black (**): p=0.00334336 Red(**): p=9.295675e-007 Blue(n.s.): p=0.914717	Fig Legend	(WT v Sas4) black(**): t=4.1382 df=7 Red(n.s.): t=0.954153 df=7 Blue(**): t=4.3663 df=7 (WT v Sas4p53) black (n.s): t=7.16158 df=8 Red(**): t=18.9606 df=8 Blue(**): t=0.332324 df=8 (Sas4 v Sas4p53) black (**): t= 4.35281 df=7 Red(**): t= 15.9365 df=7 Blue(n.s.): t= 0.111019 df=7	not included
+ -	4c	N/A	N/A	105, 91, 143	EGFP+;PAX6+ cells	Fig. Legend	none					
+ -	5c	unpaired t-test	Metho ds Para 5	5,5	brains	Fig. Legend	Mean +/- S.D.	Fig. Legen d	(**)black p=2.100471e-005 (**)red p=9.825736e-006 (n.s.) blue p=0.889374	Fig Legend	(**)black t=8.84771 df=8 (**)red t=9.80566 df=8 (n.s.) blue t=0.143592 df=8	not included

+ -	5e	unpaired t-test	Methods Para 5	5,5	brains	Fig. Legend	Mean +/- S.D.	Fig. Legend	(**)black p=1.187041e-005 (**)red p=3.456918e-007 (n.s.) blue p=0.241504	Fig. Legend	(**)black t=9.55942 df=8 (**)red t=15.2115 df=8 (n.s.) blue t=1.26491 df=8	not included
+ -	6b	unpaired t-test	Methods Para 5	461 from 3, 1366 from 3	cells from brains	Fig. Legend	Mean +/- S.D. of individual brains	Fig. Legend	(VZ Surface) both (**) p=1.027823e-005 (Extra-VZ) both(**) p=0.000104358	Fig Legend	(VZ Surface) both (**) t=27.5809 df=4 (Extra-VZ) both(**) t=15.3769 df=4	not included
+ -	6d	unpaired t-test	Methods Para 5	266 from 3, 690 from 3	cells from brains	Fig. Legend	Mean +/- S.D. of individual brains	Fig. Legend	VZ Surface (Two Foci)(**) p=3.899935e-007 (One Foci)(**) p=4.369434e-006 (No Foci)(**) p=7.690669e-005 Extra-VZ (Two Foci)(**) p=4.867509e-008 (One Foci)(**) p=0.00173961 (No Foci)(**) p=0.000109052		VZ Surface (Two Foci)(**) t=62.6021 df=4 (One Foci)(**) t=34.1832 df=4 (No Foci)(**) t=16.6128 df=4 Extra-VZ (Two Foci)(**) t=105.353 df=4 (One Foci)(**) t=7.44378 df=4 (No Foci)(**) t=15.2063 df=4	Not included
+ -	7b (left)	unpaired t-test	Methods Para 5	1,397 PAX6+ cells from 3 2,027 PAX6+ cells from 4	cells from brains	Fig. Legend	Mean +/- S.D. of individual brains	Fig. Legend	(n.s.) p=0.3509	Fig. Legend	(n.s) t=1.029 df=5	Not included
+ -	7b (right)	unpaired t-test	Methods Para 5	361 PAX6+;BrdU+;EdU+ cells from 3 449 PAX6+;BrdU+;EdU+ cells from 4	cells from brains	Fig. Legend	Mean +/- S.D. of individual brains	Fig. Legend	(**) both p=0.0003	Fig. Legend	(**) both t=9.141 df=5	Not included
+ -	s3c	unpaired t-test	Methods Para 5	5,4	brains	Fig. Legend	Mean +/- S.D.	Fig. Legend	(n.s.) black p=0.725547 (n.s.) red p=0.424817 (n.s.) blue p=0.591148	Fig. Legend	(n.s.) black t=0.36548 df=7 (n.s.) red t=0.847357 df=7 (n.s.) blue t=0.36548 df=7	Not included
+ -	s3e	unpaired t-test	Methods Para 5	5,4	brains	Fig. Legend	Mean +/- S.D.	Fig. Legend	(n.s.) black p=0.804449 (n.s.) red p=0.435839 (n.s.) blue p=0.91759	Fig. Legend	(n.s.) black t=0.257163 df=7 (n.s.) red t=0.826394 df=7 (n.s.) blue t=0.107263 df=7	Not included

+ -	s3g	unpaired t-test	Metho ds Para 5	5,4	brains	Fig. Legend	Mean +/- S.D.		(n.s.) black p=0.547414 (n.s.) red p=0.407084 (n.s.) blue p=0.794298	Fig. Legend	(n.s.) black t=0.632082 df=7 (n.s.) red t=0.881917 df=7 (n.s.) blue t=0.270879 df=7	Not included
+ -	s5a	unpaired t-test	Metho ds Para 5	3,150 CUX1+ cells from 5 brains 3,062 CUX1+ cells from 5 brains	cells from brains	Fig. Legend	Mean +/- S.D. of individual brains	Fig. Legen d	(Bin 4) (**) p=0.0055	Fig. Legend	t=3.762 df=8	Not included
+ -	s5c	unpaired t-test	Metho ds Para 5	3,3	brains	Fig. Legend	Mean +/- S.D.	Fig. Legen d	FOXP2 (n.s.) p=0.378438 SATB2 (n.s.) p=0.417778	Fig. Legend	FOXP2 t=0.989488 df=4 SATB2 t=0.902598 df=4	Not included
+ -	s8b	N/A	N/A	400 p53+ cells from 3	cells from brains	Fig. Legends	Mean +/- S.D.	N/A	N/A	N/A	N/A	Not included
+ -	s8d	N/A	N/A	391 p53+ cells from 3	cells from brains	Fig. Legends	Mean +/- S.D.	N/A	N/A	N/A	N/A	
+ -	s9b	N/A	N/A	1,388 PAX6+ cells from 3 brains 1,484 PAX6+ cells from 3 brains	cells from brains	Fig. Legends	Mean +/- S.D. of individual brains (S.D.=0 for all bars because 100% PAX6+ cells were SOX2+)	Fig. Legen d	n.s.	Results section	N/A because all values were 100%	not included
+ -	s9d	unpaired t-test	Metho ds Para 5	1,359 PAX6+ cells from 3 brains 1,511 PAX6+ cells from 3 brains	cells from brains	Fig. Legends	Mean +/- S.D. of individual brains	Fig. Legen d	WT VZ vs Sas4p53 VZ (n.s.) p=0.09924 WT VZ vs Sas4p53 eVZ (n.s.) p=0.0868 Sas4p53 VZ vs Sas4p53 eVZ (n.s.) p=0.3325	Fig. Legend	WT VZ vs Sas4p53 VZ t=2.13861 df=4 WT VZ vs Sas4p53 eVZ t=2.259 df=4 Sas4p53 VZ vs Sas4p53 eVZ t=1.101 df=4	not included
+ -	s9e	N/A	N/A	253 PAX6 +;BLBP+ cells	cells	Fig. Legends	none		N/A	N/A	N/A	N/A
+ -	s10b	unpaired t-test	Metho ds Para 5	4,4,4	brains	Fig. Legends	Mean +/- S.D.	Fig. Legen d	(**) p=1.026693e-006 (n.s.) p=0.5784	Fig. Legend	(**) t=19.96 df=6 (n.s.) t=0.5874 df=6	not included

| +− | s10d | unpaired t-test | Methods Para 5 | 4,3,4 | brains | Fig. Legends | Mean +/- S.D. | Fig. Legend | (WT v Sas4) Black (**): p=0.00005319 Red (n.s.): p=0.1595 Blue (**) : p=0.00003470

(WT v Sas4p53) Black (n.s): p=0.8820 Red(**): p=0.00003104 Blue(**): p=0.00002205

(Sas4 v Sas4p53) Black (**): p=0.00005319 Red(**): p=0.0002 Blue(*): p=0.0394 | Fig. Legend | (WT v Sas4) Black (**): t=12.73 df=5 Red (n.s.): t=1.652 df=5 Blue (**): t=13.89403 df=5

(WT v Sas4p53) Black (n.s) t=0.1548 df=6 Red(**): t=11.15 df=6 Blue(**): t=11.83034 df=6

(Sas4 v Sas4p53) Black (**): t=12.73 df=5 Red(**): t=9.656 df=5 Blue (*): t=2.769 df=5 | not included |
| +− | s10e | unpaired t-test | Methods Para 5 | 4,3,4 | brains | Fig. Legends | Mean +/- S.D. | Fig. Legend | (WT v Sas4) Black (**): p=0.00005381 Red (n.s.): p=0.1687 Blue (**) : p=0.00007147

(WT v Sas4p53) Black (n.s): p=0.3446 Red(**): p=0.0008 Blue(**): p=0.0005

(Sas4 v Sas4p53) Black (**): p=0.0012 Red(**): p=0.0020 Blue(**): p=0.0043 | Fig. Legend | (WT v Sas4) Black (**): t=12.70 df=5 Red (n.s.): t=1.608 df=5 Blue (**): t=11.98 df=5

(WT v Sas4p53) Black (n.s): t=1.026 df=6 Red(**): t=6.268 df=6 Blue(**): t=6.700 df=6

(Sas4 v Sas4p53) Black (**): t=6.582 df=5 Red(**): t=5.876 df=5 Blue (**): t=4.944 df=5 | not included |

+/-												
+ -	s11b	unpaired t-test	Methods Para 5	4,4,2,4	individual areas	Fig. legends	Mean +/- S.D.	Fig. Legend	(Top left) (E14.5) p=0.0454291 (E15.5) p=0.000191556 (Bottom left) (E12.5) p=0.00616318 (E13.5) p=0.00150946 (E14.5) p=0.0340521 (E15.5) p=0.000137855 (Top right) (E14.5) p=0.0476761 (E15.5) p=0.000108853 (Bottom right) (E12.5) p=0.0020694 (E13.5) p=2.858291e-006 (E14.5) p=0.00395868 (E15.5) p=0.000428593	Fig. Legend	(top left) (E14.5) t=4.53034 df=2 E15.5 t=8.08736 df=6 (Bottom left) (E12.5) t=4.12765 df=6 (E13.5) t=5.50384 df=6 (E14.5) t=5.27972 df=2 (E15.5) t=8.57839 df=6 (Top right) (E14.5) t=4.41442 df=2 E15.5 t=8.94673 df=6 (Bottom right) (E12.5) t=5.17249 df=6 (E13.5) t=16.7826 df=6 (E14.5) t=15.8465 df=2 (E15.5) t=6.98454 df=6	not included
+ -	s12b	N/A	N/A	65, 70, 40	DiI+; PAX6+ cells	Fig. legends	none		N/A	N/A	N/A	N/A
+ -	s13b	unpaired t-test	Methods Para 5	3,3	brains	Fig. legends	Mean +/- S.D.	Fig. Legend	(*) p=0.0118	Fig. Legend	(*) t=4.388 df=4	not included
+ -	s13c	unpaired t-test	Methods Para 5	1,159 BrdU+ cells from 3 brains 1,492 BrdU+ cells from 3 brains	cells from brains	Fig. legends	Mean +/- S.D. of individual brains	Fig. Legend	(n.s.) p=0.2188	Fig. Legend	(n.s.) t=1.457 df=4	not included
+ -	s16b	unpaired t-test	Methods Para 5	224 cells from 3 brains 248 cells from 3 brains	cells from brains	Fig. legends	Mean +/- S.D. of individual brains	Fig. Legend	(n.s.) p=0.2643	Fig. Legend	(n.s.) t=1.297 df=4	not included
+ -	s16d	N/A	N/A	112, 61	Mitotic cells	Fig. legends	none		N/A	N/A	N/A	N/A
+ -	s15b	unpaired t-test	Methods Para 5	238 BrdU+;EdU+ cells from 3 brains 262 BrdU+;EdU+ cells from 3 brains	cells from brains	Fig. legends	Mean +/- S.D. of individual brains	Fig. Legend	(**) p=0.00008250	Fig. Legend	(**) t=16.32 df=4	not included

| +/− | s15c | unpaired t-test | Metho ds Para 5 | 199 BrdU +;EdU +;BLBP+ cells from 3 brains

199 BrdU +;EdU +;BLBP+ cells from 3 brains | cells from brains | Fig. legends | Mean +/- S.D. of individual brains | Fig. Legen d | (**) both p=0.00002420 | Fig. Legend | (**) both t=22.25 df=4 | not included |

▶ Representative figures

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

   If so, what figure(s)?

   > All images are representative and most are accompanied by quantitative analysis. The following figures contain only representative images:
   >
   > Fig 1c-j, Fig 4a, Fig 5a
   >
   > sFig 1, sFig 2, sFIg 3a&h, sFig 4, sFig 6, sFig 7, sFig 13a, sFig 14, sFig 16b&c

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 #)?

   > No, but all were representative of more than 2-3 individual experiments.

▶ 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.

   > Sample size is generally justified based on statistical analysis, and previous publications on similar topics (stated in Methods section).

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

   Where (section, paragraph #)?

   > Yes, Methods.

   a. If there is a section summarizing the statistical methods in the methods, is the statistical test for each experiment clearly defined?

   > Yes, Methods Paragraph 5

   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 #)?

   > Yes, all meet criteria of $p<0.05$ in t-test.

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 #)?

> Yes, all bar graphs are represented as mean +/- standard deviation, as described in Figure Legends and Methods.

d. Are tests specified as one- or two-sided?

> Two-sided, stated in Methods paragraph 5.

e. Are there adjustments for multiple comparisons?

> No

3. Are criteria for excluding data points reported?

Was this criterion established prior to data collection?

Where is this described (section, paragraph #)?

> No data points were excluded as stated in Methods.

4. Define the method of randomization used to assign subjects (or samples) to the experimental groups and to collect and process data.

If no randomization was used, state so.

Where does this appear (section, paragraph #)?

> No randomization was used as stated in Methods.

5. Is a statement of the extent to which investigator knew the group allocation during the experiment and in assessing outcome included?

If no blinding was done, state so.

Where (section, paragraph #)?

> No blinding experiment was done, because all reported differences amongst groups were clear. This is stated in the methods section.

6. For experiments in live vertebrates, is a statement of compliance with ethical guidelines/regulations included?

Where (section, paragraph #)?

> Yes, in Methods section, paragraph 1.

7. Is the species of the animals used reported?

Where (section, paragraph #)?

> Yes, in Methods section, paragraph 1. Mice are used.

8. Is the strain of the animals (including background strains of KO/ transgenic animals used) reported?

Where (section, paragraph #)?

> Yes, in Methods section, paragraph 1.

9. Is the sex of the animals/subjects used reported?

Where (section, paragraph #)?

> No.

10. Is the age of the animals/subjects reported?

Where (section, paragraph #)?

> Yes, in Figures and Figure Legends for all figures.

11. For animals housed in a vivarium, is the light/dark cycle reported?

Where (section, paragraph #)?

> No

12. For animals housed in a vivarium, is the housing group (i.e. number of animals per cage) reported?

    Where (section, paragraph #)?

    > No

13. For behavioral experiments, is the time of day reported (e.g. light or dark cycle)?

    Where (section, paragraph #)?

    > N/A

14. Is the previous history of the animals/subjects (e.g. prior drug administration, surgery, behavioral testing) reported?

    Where (section, paragraph #)?

    > N/A

    a. If multiple behavioral tests were conducted in the same group of animals, is this reported?

       Where (section, paragraph #)?

       > N/A

15. If any animals/subjects were excluded from analysis, is this reported?

    Where (section, paragraph #)?

    > No animals were excluded, as stated in the Methods section.

    a. How were the criteria for exclusion defined?

       Where is this described (section, paragraph #)?

    b. Specify reasons for any discrepancy between the number of animals at the beginning and end of the study.

       Where is this described (section, paragraph #)?

▶ Reagents

1. Have antibodies been validated for use in the system under study (assay and species)?

   > Yes, by the previous publications and the vendors. Specific non-commercial antibodies are referred in Methods section.

   a. Is antibody catalog number given?

      Where does this appear (section, paragraph #)?

      > Yes, along with the dilution factor used: in the Methods section, paragraph 3.

   b. Where were the validation data reported (citation, supplementary information, Antibodypedia)?

      Where does this appear (section, paragraph #)?

      > Specific non-commercial antibodies are cited in Methods section, paragraph 3.

2. If cell lines were used to reflect the properties of a particular tissue or disease state, is their source identified?

   Where (section, paragraph #)?

   > N/A

a. Were they recently authenticated?

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

▶ 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?

    Where (section, paragraph #)?

    N/A

▶ 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.

    N/A

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.

    N/A

▶ Human subjects

1. Which IRB approved the protocol?

    Where is this stated (section, paragraph #)?

    N/A

2. Is demographic information on all subjects provided?

    Where (section, paragraph #)?

    N/A

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

    Where (section, paragraph #)?

    N/A

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

    Where (section, paragraph #)?

    N/A

5. How well were the groups matched?

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

   N/A

6. Is a statement included confirming that informed consent was obtained from all subjects?

   Where (section, paragraph #)?

   N/A

7. For publication of patient photos, is a statement included confirming that consent to publish was obtained?

   Where (section, paragraph #)?

   N/A

▶ fMRI studies

For papers reporting functional imaging (fMRI) results please ensure that these minimal reporting guidelines are met and that all this information is clearly provided in the methods:

1. Were any subjects scanned but then rejected for the analysis after the data was collected?

   N/A

   a. 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 #)?

   N/A

3. Is the length of each trial and interval between trials specified?

   N/A

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.

   N/A

5. Is the task design clearly described?

   Where (section, paragraph #)?

   N/A

6. How was behavioral performance measured?

   N/A

7. Is an ANOVA or factorial design being used?

   N/A

8. For data acquisition, is a whole brain scan used?

   If not, state area of acquisition.

   N/A

   a. How was this region determined?

9. Is the field strength (in Tesla) of the MRI system stated?

N/A

    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?

N/A

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 #)?

N/A

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 #)?

N/A

13. How were anatomical locations determined, e.g., via an automated labeling algorithm (AAL), standardized coordinate database (Talairach daemon), probabilistic atlases, etc.?

N/A

14. Were any additional regressors (behavioral covariates, motion etc) used?

N/A

15. Is the contrast construction clearly defined?

N/A

16. Is a mixed/random effects or fixed inference used?

N/A

    a. If fixed effects inference used, is this justified?

17. Were repeated measures used (multiple measurements per subject)?

N/A

    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?

N/A

19. Are statistical inferences corrected for multiple comparisons?

    a. If not, is this labeled as uncorrected?

20. Are the results based on an ROI (region of interest) analysis? | N/A

    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? | N/A

22. For cluster-wise significance, is the cluster-defining threshold and the corrected significance level defined? | N/A

▶ Additional comments

Additional Comments