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Main Figures: 6

Supplementary Figures: 8

Supplementary Tables: 15

Supplementary Videos: -

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 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 #
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 #	
+ -	1a	two-way ANOVA	Fig. legend	5, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0061	Fig. legend	F(1,22)=9.209	Fig. legend
+ -	1b	two-way ANOVA	Fig. legend	9, 11, 11	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.074	Fig. legend	F(2,56)=2.73	Fig. legend
+ -	1c	two-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.379	Fig. legend	F(2,42)= 0.9929	Fig. legend
+ -	1d	two-way ANOVA	Fig. legend	7, 10	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.4220	Fig. legend	F(1,30)=0.6629	Fig. legend
+ -	1e	two-way ANOVA	Fig. legend	9, 5, 11	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.19	Fig. legend	F(2,44)=1.72	Fig. legend
+ -	1f	two-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.5562	Fig. legend	F(2, 42) = 0.5949	Fig. legend
+ -	1g	two-way ANOVA	Fig. legend	10, 9, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.3945	Fig. legend	F(6,96)=1.056	Fig. legend
+ -	1h	two-way ANOVA	Fig. legend	11, 10, 12	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(8,138)=12.27	Fig. legend
+ -	1i	two-way ANOVA	Fig. legend	8, 5, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.8368	Fig. legend	F(1,32)=0.1791	Fig. legend
+ -	1j	two-way ANOVA	Fig. legend	12, 8, 12	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0008	Fig. legend	F(6,116)=4.137	Fig. legend
+ -	1k	two-way ANOVA	Fig. legend	6, 6, 9	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.004	Fig. legend	F(6,71)=3.54	Fig. legend
+ -	2a	two-way ANOVA	Fig. legend	8, 10	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(2,48)=17.43	Fig. legend
+ -	2b	two-way ANOVA	Fig. legend	8, 7	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0107	Fig. legend	F(2,39)=5.108	Fig. legend
+ -	2c	two-way ANOVA	Fig. legend	11, 10	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.9702	Fig. legend	F(2,57)= 0.03027	Fig. legend
+ -	2d	two-way ANOVA	Fig. legend	8, 7	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.8783	Fig. legend	F(2,39)= 0.1302	Fig. legend
+ -	3a	one-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0549 p = 0.0043 p = 0.2410 p = 0.0003 p < 0.0001	Fig. legend	F(2,21)= 3.342 F(2,21)= 7.125 F(2,21)= 1.524 F(2,21)= 12.41 F(2,21)= 17.68	Fig. legend

+ -	3b	one-way ANOVA	Fig. legend	10, 6, 10, 7, 6, 6,	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0001 p = 0.1381 p = 0.0004 p = 0.0527 p = 0.0389	Fig. legend	F(3,27)= 10.29 F(3,27)= 1.998 F(3,27)= 8.580 F(3,27)= 2.923 F(3,27)= 3.243	Fig. legend
+ -	3c	one-way ANOVA	Fig. legend	8, 6, 6, 7, 7, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0128 p = 0.0066 p = 0.5314 p = 0.9665	Fig. legend	F(3,23)= 4.489 F(3,23)= 5.256 F(3,23)= 0.7538 F(3,23)= 0.08686	Fig. legend
+ -	4a	two-way ANOVA	Fig. legend	9, 9	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0072	Fig. legend	F(1,32)= 8.234	Fig. legend
+ -	4b	two-way ANOVA	Fig. legend	6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(1,20)= 33.81	Fig. legend
+ -	4c	one-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0029 p = 0.0051 p = 0.0055 p = 0.0032	Fig. legend	F(2,21)= 8.858 F(2,21)= 6.864 F(2,21)= 6.731 F(2,21)= 7.632	Fig. legend
+ -	5a	two-way ANOVA	Fig. legend	9, 10, 9	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0022	Fig. legend	F(4,75)= 6.496	Fig. legend
+ -	5b	two-way ANOVA	Fig. legend	9, 7, 9	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(4,66)=12.81	Fig. legend
+ -	5c	one-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(2,21)= 33.89	Fig. legend
+ -	5d	one-way ANOVA	Fig. legend	5, 4, 4	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0004 p = 0.0169 p = 0.0408	Fig. legend	F(2,12)= 18.64 F(2,12)= 6.314 F(2,12)= 4.481	Fig. legend
+ -	5e	two-way ANOVA	Fig. legend	6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(2,30)=25.02	Fig. legend
+ -	5f	two-way ANOVA	Fig. legend	7, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.9419	Fig. legend	F(2,39)= 0.05990	Fig. legend
+ -	5g	one-way ANOVA	Fig. legend	7, 6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0022	Fig. legend	F(2,18)= 9.162	Fig. legend
+ -	6a	two-way ANOVA	Fig. legend	7, 7	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(2,36)=14.36	Fig. legend
+ -	6b	one-way ANOVA	Fig. legend	6, 6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0015	Fig. legend	F(2,17)= 10.35	Fig. legend
+ -	6c	one-way ANOVA	Fig. legend	6, 6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0003 p < 0.0001 p = 0.0008	Fig. legend	F(2,17)= 14.66 F(2,17)= 19.17 F(2,17)= 11.82	Fig. legend
+ -	6d	two-way ANOVA	Fig. legend	8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p < 0.0001	Fig. legend	F(2,42)=57.4	Fig. legend
+ -	Supplementary 1a	two-way ANOVA	Fig. legend	11, 10	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.0558	Fig. legend	F(1,38)= 3.894	Fig. legend
+ -	Supplementary 1b	two-way ANOVA	Fig. legend	5, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p= 0.5955	Fig. legend	F(1,18)= 0.2921	Fig. legend
+ -	Supplementary 2	two-tailed t test	Fig. legend	6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p=0.7028	Fig. legend	t=1.562 df=10	Fig. legend

+ -	Supplementary 3a	two-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.2032	Fig. legend	F(1,42)= 1.656	Fig. legend
+ -	Supplementary 3b	two-way ANOVA	Fig. legend	8, 8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.417	Fig. legend	F(1,42)= 0.3349	Fig. legend
+ -	Supplementary 4	two-way ANOVA	Fig. legend	8, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.3021	Fig. legend	F(3,56)=1.245	Fig. legend
+ -	Supplementary 5	two-way ANOVA	Fig. legend	11, 13, 11, 11, 11	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p<0.0001	Fig. legend	F(12,208)=4.269	Fig. legend
+ -	Supplementary 6	one-way ANOVA	Fig. legend	8, 8, 8; 8, 6, 10, 7, 6, 6 8, 6, 6, 7, 7, 8	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p= 0.5537 p= 0.8240 p= 0.9211 p= 0.9650 p= 0.9798 p= 0.8907	Fig. legend	F(2,21)= 0.6080 F(2,21)= 0.1954 F(3,27)= 0.1618 F(3,27)= 0.08967 F(3,23)= 0.06099 F(3,23)= 0.2067	Fig. legend
+ -	Supplementary 7	two-tailed t test	Fig. legend	7, 7; 7, 7	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p = 0.7498 p = 0.5618 p = 0.8899 p = 0.6126 p = 0.5400 p = 0.6482	Fig. legend	t=0.3263 df=12 t=0.5967 df=12 t=0.1414 df=12 t=0.5199 df=12 t=0.6308 df=12 t=0.4679 df=12	Fig. legend
+ -	Supplementary 8	One-way ANOVA	Fig. legend	6, 6, 6	rats from at least 3 litters	Fig. legend	Data were presented as mean +/- s.e.m	Fig. legend	p=0.77 p=0.50 p=0.82	Fig. legend	F(2,17)= 0.27 F(2,17)= 0.72 F(2,17)= 0.08	Fig. legend

► Representative figures

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

If so, what figure(s)?

Yes, in Fig. 3a-c, Fig. 4c, Fig. 5c-d, Fig. 5g, Fig. 6b-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 #)?

Yes, in the corresponding Figure Legend

► 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.

In the Statistical analyses section in Methods.

No statistical methods were used to predetermine sample sizes, but our sample sizes are similar to those generally employed in the field.

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

Where (section, paragraph #)?

See the statistical analyses section in Methods.

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

Yes.

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 #)?

Statistical analyses were designed using the assumption of normal distribution and similar variance among groups, but this was not formally tested.

In the Statistical analyses section in Methods.

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 #)?

Statistical analyses were designed using the assumption of normal distribution and similar variance among groups, but this was not formally tested.

In the Statistical analyses section in Methods.

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

All tests are two-sided.

e. Are there adjustments for multiple comparisons?

No

3. To promote transparency, *Nature Neuroscience* has stopped allowing bar graphs to report statistics in the papers it publishes. If you have bar graphs in your paper, please make sure to switch them to dot-plots (with central and dispersion statistics displayed) or to box-and-whisker plots to show data distributions.

All figures show dot-plots to show data distribution.

4. Are criteria for excluding data points reported?

Was this criterion established prior to data collection?

Where is this described (section, paragraph #)?

Yes, it was described in the "Hippocampal cannula implants and injections" section in Methods.

In the Statistical analyses section in Methods.

5. 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 to collect all the data

6. 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 #)?

Yes, it was described in the "Inhibitory avoidance" section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

8. Is the species of the animals used reported?

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, in the Animals section in Methods.

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

Where (section, paragraph #)?

Yes, it is described in the "Hippocampal cannula implants and injections" section in Methods.

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

Where (section, paragraph #)?

Yes, it was described in the "Inhibitory avoidance" section in Methods.

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

Where (section, paragraph #)?

Yes, it is described in the "Hippocampal cannula implants and injections" section in Methods.

a. How were the criteria for exclusion defined?

Where is this described (section, paragraph #)?

Yes, it is described in the "Hippocampal cannula implants and injections" section in Methods.

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 #)?

Yes, it is described in the "Hippocampal cannula implants and injections" section in Methods.

► Reagents

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

It was described in the "Western blot analyses" section in Methods.

a. Is antibody catalog number given?

It was described in the "Western blot analyses" section in Methods.

Where does this appear (section, paragraph #)?

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

It was described in the "Western blot analyses" section in Methods.

Where does this appear (section, paragraph #)?

2. Cell line identity

a. Are any cell lines used in this paper listed in the database of commonly misidentified cell lines maintained by [ICLAC](#) and [NCBI Biosample](#)?

Where (section, paragraph #)?

b. If yes, include in the Methods section a scientific justification of their use--indicate here in which section and paragraph the justification can be found.

c. For each cell line, include in the Methods section a statement that specifies:

- the source of the cell lines
- have the cell lines been authenticated? If so, by which method?
- have the cell lines been tested for mycoplasma contamination?

Where (section, paragraph #)?

► Data availability

Provide a Data availability statement in the Methods section under "Data availability", which should include, where applicable:

- Accession codes for deposited data
- Other unique identifiers (such as DOIs and hyperlinks for any other datasets)
- At a minimum, a statement confirming that all relevant data are available from the authors
- Formal citations of datasets that are assigned DOIs
- A statement regarding data available in the manuscript as source data
- A statement regarding data available with restrictions

See our [data availability and data citations policy page](#) for more information.

Data deposition in a public repository is mandatory for:

- Protein, DNA and RNA sequences
- Macromolecular structures
- Crystallographic data for small molecules
- 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](#).

We encourage publication of Data Descriptors (see [Scientific Data](#)) to maximize data reuse.

Where is the Data Availability statement provided (section, paragraph #)?

A statement of data availability is provided in the Data Availability section of the Methods

► 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.

2. If computer code was used to generate results that are central to the paper's conclusions, include a statement in the Methods section under "**Code availability**" to indicate whether and how the code can be accessed. Include version information as necessary and any restrictions on availability.

► Human subjects

1. Which IRB approved the protocol?
Where is this stated (section, paragraph #)?
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 #)?

► 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?
 - 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 #)?
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?
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?
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