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The MYST family histone acetyltransferase complex regulates stress resistance and longevity through transcriptional control of DAF-16/FOXO transcription factors

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This checklist is used to ensure good reporting standards and to improve the reproducbility of published results. These guidelines are consistent with the Principles and Guidelines for Reporting Preclinical Research issued by the NH in 2014. Please follow the journal's authorship guidelines in preparing your amancept.

A- Figures

- A. Figures
 1. Data
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2. Captions

Each figure caption should contain the following information, for each panel where they are relevant:

- a specification of the experimental system investigated (eg cell line, species name).
 the assay(s) and method(s) used to carry out the reported observations and measuremnts.
 an explicit mention of the biological and chemical entity(ies) that are help measured.
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Please ensure that the answers to the following questions are reported in the manuscript itself. We encourage you to include a specific subsection in the methods section for statistics, reagents, animal models and human subjects.

In the pink boxes below, provide	e the page number(s) of the manuscript draft or figure legend(s) where the
information can be located. Even	ry question should be answered. If the question is not relevant	to your research,

B- Statistic

ics and general methods	Please fill out these boxes 🗸 (Do not worry if you cannot see all your text once you press return)
1.a. How was the sample size chosen to ensure adequate power to detect a pre-specified effect size?	We performed lifespan analysis according to the method which was previously reported (Francis et al, Methods, 2014) For other experiments, optimal sample size was chosen based on the method information in previous literature in which similar experiments were performed.
1.b. For animal studies, include a statement about sample size estimate even if no statistical methods were used.	Sample size for animal studies were mentioned in Figure Legends (pages 23-28), Expanded View Figure Legends, or Table EV1.
 Describe inclusion/exclusion criteria if samples or animals were excluded from the analysis. Were the criteria pre- stablished? 	The inclusion/exclusion criteria has been pre-established. We excluded animals that ruptured, bagged, or crawled off the plates. Please see the Table EV1.
 Were any steps taken to minimize the effects of subjective bias when allocating animals/samples to treatment (e.g. randomization procedure)? If yes, please describe. 	No.
For animal studies, include a statement about randomization even if no randomization was used.	We did not use randomization.
4.a. Were any steps taken to minimize the effects of subjective bias during group allocation or/and when assessing result (e.g. blinding of the investigator)? If yes please describe.	N0.
4.b. For animal studies, include a statement about blinding even if no blinding was done	We did not do blinding.
For every figure, are statistical tests justified as appropriate?	Yes.
Do the data meet the assumptions of the tests (e.g., normal distribution)? Describe any methods used to assess it.	Yes.
is there an estimate of variation within each group of data?	Variation in each experimental group was shown in the data figures by using standard deviation (SD) represented as error bars.
is the variance similar between the groups that are being statistically compared?	Yes.

C- Reagents

Antibodypedia (see link list at top right), 1DegreeBio (see link list at top right).	anti-TigGo antibody (182,1554, Adxam), anti-DA-F.16 antibody (18-300, Santa Cruz), anti-AcH43120 antibody (1073-230, Milloper), anti-AcH4312 antibody (1075-800, Milloper), anti-AcH4314 antibody (1076-866, Milloper), anti-AcH314 antibody (1076-559, Milloper), anti-AcH4333 antibody (1073-32), Milloper), anti-AcH314 antibody (1076-559, Milloper), anti-AcH3133 antibody (1073-33), Milloper), anti-AcH31414, calif antibody (1076-599, Milloper), anti-AcH31434, calif Signaling), anti-Tubulin antibody (105199, Sigma). Please see the Material and Methods (page 17).
7. Identify the source of cell lines and report if they were recently authenticated (e.g., by STR profiling) and tested for mycoplasma contamination. * for all hyperinks, because see the table at the too right of the document.	Please see the Material and Methods (page 13).

D- Animal Models

and husbandry conditions and the source of animals.	Please see the Material and Methods (page 13).
9. For experiments involving live vertebrates, include a statement of compliance with ethical regulations and identify the committee(s) approving the experiments.	NA
10. We recommend consulting the ARRIVE guidelines (see link hist at top right) [PLOS Biol, 8(6), e1000412, 2010) to ensure that other relevant aspects of animalis tudies are adequately reported. See author guidelines, under 'Reporting Guidelines'. See also: NH (see link list at top right) and MRC (see link list at top right) recommendations. Please confirm roomlance	NA

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11. Identify the committee(s) approving the study protocol.	NA
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Huang J. Brown AF. Lei M (2012). Crystal structure of the TRBD domain of TERT and the CR4/5 of TR. Protein Data Bank	
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