

Intracellular adenosine regulates epigenetic programming in endothelial cells to promote angiogenesis

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Reporting Checklist For Life Sciences Articles (Rev. July 2015)

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

A- Figures

1. Data

- The data shown in figures should satisfy the following conditions:

 the data were obtained and processed according to the field's best practice and are presented to reflect the results of the experiments in an accurate and unbiased manner.
 - figure panels include only data points, measurements or observations that can be compared to each other in a scientifically
 - meaningful way.

 praphs include clearly labeled error bars for independent experiments and sample sizes. Unless justified, error bars should not be shown for technical replicates.

 if n< 5, the individual data points from each experiment should be plotted and any statistical test employed should be
 - justified
 - → Source Data should be included to report the data underlying graphs. Please follow the guidelines set out in the author ship guidelines on Data Presentation

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).

- a specimation on the Experimental system investigated teg current initine, species indire).
 the assay(s) and method(s) used to carry out the reported observations and measurements
 an explicit mention of the biological and chemical entity(ies) that are being measured.
 an explicit mention of the biological and chemical entity(ies) that are altered/varied/perturbed in a controlled manner.

- the exact sample size (n) for each experimental group/condition, given as a number, not a range;
 a description of the sample collection allowing the reader to understand whether the samples represent technical or biological replicates (including how many animals, litters, cultures, etc.).
 a statement of how many times the experiment shown was independently replicated in the laboratory.
 definitions of statistical methods and measures:
 common tests, such as t-test (please specify whether paired vs. unpaired), simple x2 tests, Wilcoxon and Mann-Whitney tests, can be unambiguously identified by name only, but more complex techniques should be described in the methods reaction:
 - are tests one-sided or two-sided?

 - are the adjustments for multiple comparisons?

 exact statistical test results, e.g., P values = x but not P values < x;
 definition of 'center values' as median or average;

 definition of error bars as s.d. or s.e.m.

Any descriptions too long for the figure legend should be included in the methods section and/or with the source data.

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.

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

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B- Statistics and general methods

1.a. How was the sample size chosen to ensure adequate power to detect a pre-specified effect size?	The minimum animal numbers and sample sizes required to achieve statistical significance were determined by power analysis and prior experience. Sample size per group can be found in the
	figure legends. See "Statistical analysis" section.
1.b. For animal studies, include a statement about sample size estimate even if no statistical methods were used.	See above. Statistical analysis used in each figure are indicated in figure legends.
2. Describe inclusion/exclusion criteria if samples or animals were excluded from the analysis. Were the criteria pre-established?	Male mice were used for experiments on hindlimb ischemic model and wound healing model to avoid additional variability due to the gender. No data were excluded from any of the experiments. See "Statistical analysis" section and "Appendix Materials and Methods" section.
3. 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 randomization was used. Animals were grouped based on their age and genotype. See "Statistical analysis" section.
For animal studies, include a statement about randomization even if no randomization was used.	See above.
4.a. Were any steps taken to minimize the effects of subjective bias during group allocation or/and when assessing results (e.g. blinding of the investigator)? If yes please describe.	The experiments on hindlimb ischemia model and wound healing model were performed in a blinded manner. See "Appendix Materials and Methods" section, "Wound healing assay and analysis" subsection and "Hind limb ischemia model" subsection.
4.b. For animal studies, include a statement about blinding even if no blinding was done	See above
5. For every figure, are statistical tests justified as appropriate?	Yes, statistical tests are summarized in the "Statistical analysis" section.
Do the data meet the assumptions of the tests (e.g., normal distribution)? Describe any methods used to assess it.	According to prior experience.
Is there an estimate of variation within each group of data?	Yes, see figure legends.
Is the variance similar between the groups that are being statistically compared?	Yes, see figures.

6. To show that antibodies were profiled for use in the system under study (assay and species), provide a citation, catalog	See "Appendix Materials and Methods" section, "Protein extraction and Western blotting"
number and/or clone number, supplementary information or reference to an antibody validation profile. e.g.,	subsection, "Histology and immunohistochemistry" subsection and "Methylated DNA
Antibodypedia (see link list at top right), 1DegreeBio (see link list at top right).	immunoprecipitation-qRT-PCR" subsection.
Identify the source of cell lines and report if they were recently authenticated (e.g., by STR profiling) and tested for	Yes, see "Appendix Materials and Methods" section, "Cell culture and treatments" subsection.
mycoplasma contamination.	

D- Animal Models

8. Report species, strain, gender, age of animals and genetic modification status where applicable. Please detail housing and husbandry conditions and the source of animals.	See "Appendix Materials and Methods" section, "Mouse generation and breeding" subsection, "Isolation and culture of primary mouse aortic endothelial cells" subsection, "Anortic ring assay" subsection, "Analysis of mouse retinal vasculature" subsection, "Analysis of embryonic hindbrain angiogenesis" subsection, "Wound healing assay and analysis" subsection and "Hind limb ischemia model" model.
9. For experiments involving live vertebrates, include a statement of compliance with ethical regulations and identify the committee(s) approving the experiments.	See "Materials and Methods" section, "Mouse generation and breeding" subsection.
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12. Include a statement confirming that informed consent was obtained from all subjects and that the experiments conformed to the principles set out in the WMA Declaration of Helsinki and the Department of Health and Human Services Belmont Report.	N/A
13. For publication of patient photos, include a statement confirming that consent to publish was obtained.	N/A
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Data deposition in a public repository is mandatory for:	
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at top right) or JWS Online (see link list at top right). If computer source code is provided with the paper, it should be	
deposited in a public repository or included in supplementary information.	
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23. Could your study fall under dual use research restrictions? Please check biosecurity documents (see link list at top	N/A
right) and list of select agents and toxins (APHIS/CDC) (see link list at top right). According to our biosecurity guidelines,	
provide a statement only if it could.	

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