

The ARRIVE Guidelines Checklist

Animal Research: Reporting In Vivo Experiments

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|  | ITEM | RECOMMENDATION | Section/Paragraph |
|  | page 1 , lines 1-3 |
|  | page 2, lines 33-52 |
| INTRODUCTION |  |
|  | a. pages 3-4, lines 54-96b. page 4, lines 86-89 |
|  | page 3, lines 61-65 |
| METHODS |  |
|  | page 5, lines 105-117 |
|  | S1 Table and group sizes are given in legends to figures |
|  | page 5, lines 118-126 |
|  | page 5, lines 105-117 |

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|  | page 5, lines 153-117 |
|  | S1 Table, page 6, lines 157-159, page 7 |
|  | S1 Table |
|  | Page 5 line 123, page 6, line 142, line 148, line 162 |
|  | page 7, lines 177-179 and lines 186-191 |
| RESULTS |  |
|  | baseline data prior treatment is represented in Figures 2 and 3 as grey bars |
|  | group sizes are given in each Figure or respective legend |
|  | measures of precision are given in Figures 2, 3, 4, and 5 and respective legends; for transcriptomes FDR < 10 % and FC > 1.7 |
|  | n.a. |
| DISCUSSION |  |
|  | see discussion |
|  | Discussion; We provide a proof-of-concept for an effective selection strategy of mutant mice for environmental challenges that supports the first complete annotation of a mammalian genome  |
|  | see financial disclosure in submission form |

