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Title: Aldehyde dehydrogenase activity helps identify a subpopulation of murine adipose-derived stem cells with enhanced adipogenic and osteogenic differentiation potential

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1 What did this study explore?

Functionally distinct subpopulation of adipose-derived stem cells.

2 How did the authors perform all experiments?

All the experiments were performed by Harumichi Itoh at Yamaguchi University.

3 How did the authors process all experimental data?

The data were analyzed with several software. Such as Flowjo, microsoft excel, or Graphpad Prism.

4 How did the authors deal with the pre-study hypothesis?

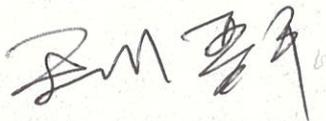
pre-study hypothesis was 'there might be subpopulation of ADSCs which is functionally distinct from others'. So, we performed ALDEFLUOR assay as it is utilized in hematopoietic stem cell research.

5 What are the novel findings of this study?

Murine ADSCs contain a subpopulation defined by ALDH activity which is highly capable of differentiation.

Thank you again for publishing our manuscript in the *World Journal of Stem Cells*.

Sincerely yours,



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