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## JAX-Sen: Mice selection criteria for Xenium

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Cellular Senescence Net...



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**We use this protocol and it's working**

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## Abstract

We aim to select mice of varying ages and genotypes across both male and female groups to study senescence in liver, heart, kidney and muscle tissues in order to generate xenium data.

We included 6-month-old and 27-month-old p21-Cre/+ (P) mice, as well as 27-month-old p21-Cre/+; DTA/+ (P/D) mice, generated on a C57BL/6 background.

## Guidelines

This protocol needs prior approval by the users' Institutional Animal Care and Use Committee (IACUC) or equivalent ethics committee

## Safety warnings

- ! This protocol needs prior approval by the users' Institutional Animal Care and Use Committee (IACUC) or equivalent ethics committee



## Procedure

- 1 p21-Cre mice were generated on a C57BL/6 background and further crossed with floxed diphtheria toxin A (DTA) mice (The Jackson Laboratory, Bar Harbor, ME) to generate p21-Cre/+; +/+ (P) and p21-Cre/+; DTA/+ (P/D) littermates.
- 2 p21-Cre/+; LUC/+ (PL) mice were generated by crossing p21-Cre mice with floxed knock-in firefly luciferase (LUC) mice (The Jackson Laboratory).
- 3 Five 6-month-old P mice, six 27-month-old P mice, and six 27-month-old P/D mice, each group including both females and males, for a total of 17 animals were selected.