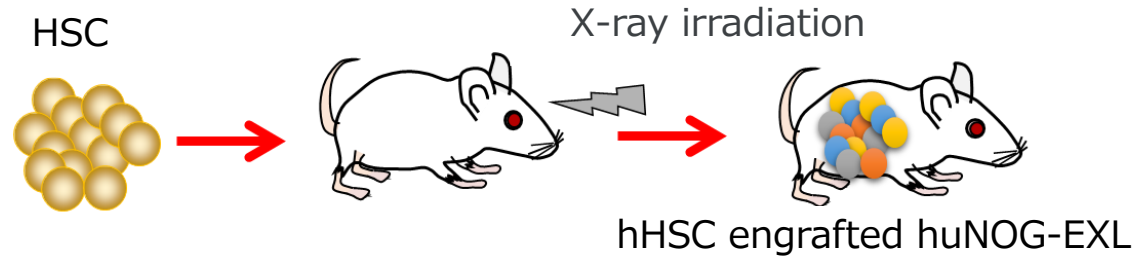


Method for hHSC engrafted humanized NOG-EXL mice production



- Purchase 6-week-old NOG-EXL mice and acclimatize them for a week.
- The mouse is irradiated with X-rays to kill some of the mouse-derived bone marrow cells.
(If produced at your facility, experiments with busulfan pretreatment are also possible.)
- Within 24 hours after X-ray irradiation, $4\sim 5 \times 10^4$ human umbilical cord blood-derived hematopoietic stem cells ($CD34^+$ HSCs) are transferred via the tail vein.
- At this point, measure the engraftment rate of human leukocytes by flow cytometry.
- In the case of humanized mice produced by In-Vivo Science, we usually deliver mice with a human cell chimerism rate of 25% or more.
- We will provide chimeric rate data ($hCD45^+$ cell number / ($hCD45^+$ cell number + $mCD45^+$ cell number)) in advance.
- As an option, delivery can be made a week after HSC transfer. We cannot guarantee the chimerism rate in this case.
- NOG-EXL mice may develop anemia after HSC engrafted, so please carefully monitor them during breeding. It is speculated that anemia develops when differentiated human macrophages phagocytose mouse red blood cells.
- Humanized mice engrafted with human hematopoietic stem cells contain human-derived materials.
- Please obtain the cell information sheet in advance, check it, and use it according to the rules of each institution.
- (In case you purchase ready-made humanized NOG-EXL mice from In-Vivo Science, we will provide you with a cell information sheet.)

- Regarding order of NOG-EXL mice, hHSC engrafted humanized NOG-EXL mice and/or questions, please contact In-Vivo Science Inc. through the order form on our website.
 - <https://www.invivoscience.com/order/>
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