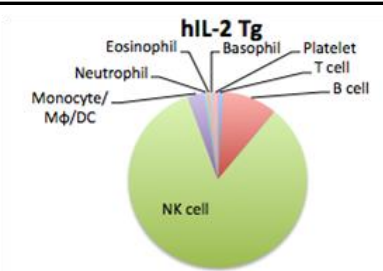


## List of next generation immunodeficient mice

<b>NOG-IL2 (NOG-hIL-2 Tg)</b>	
Strain name	NOD.Cg-Prkdc<scid> Il2rg<tm1Sug> Tg(CMV-IL2)/Jic
Strain description	Next generation humanized mouse expressing human IL-2 under the control of CMV promoter. After transplantation of human hematopoietic stem cells, human NK cells were dominantly differentiated.
Strain development	To generate the human IL-2–expressing transgenic NOG mouse, a DNA fragment containing human IL-2 cDNA, under the control of the CMV promoter, was microinjected into fertilized eggs of NOD/ShiJic IL-2Rγ (null) mice. Founder mice were backcrossed with NOG mice to obtain NOG–IL-2 Tg mice (formally, NOD.Cg-Prkdc<Scid> Il2rg<tm1Sugi> Tg (CMV-IL2)4-2Jic/Jic).
Research application	In vivo evaluation for ADCC (antibody-dependent cellular-cytotoxicity) activity via human NK cells. Functional analysis of human NK cells
References	Katano I. et al. (2015) Predominant Development of Mature and Functional Human NK Cells in a Novel Human IL-2-Producing Transgenic NOG Mouse. J Immunol 194(7):3513-3525
URL	<a href="https://pubmed.ncbi.nlm.nih.gov/25712215/">https://pubmed.ncbi.nlm.nih.gov/25712215/</a>
Remarks	Differentiated human cell fraction after HSC transfusion <div style="text-align: center;">  <p><b>hIL-2 Tg</b></p> <p>Cell types shown in the pie chart: NK cell, T cell, B cell, Platelet, Basophil, Eosinophil, Neutrophil, Monocyte/Mφ/DC.</p> </div>