

Investigators:

Carsten Gründemann, Sabrina Schwarzkopff, Maike Hoffmann and Hanspeter Pircher

Inhibitory NK cell receptors are expressed in variable frequency by memory-phenotype T cells. In humans and mice, the killer cell lectin-like receptor G1 (KLRG1) is expressed by CD4 and CD8 T cells that exhibit a memory cell phenotype and by a large proportion of NK cells but not by monocytes, granulocytes or mast cells. Human KLRG1 is also found in a substantial subset of g/d T cells and, surprisingly, in a large proportion of phenotypically naive CD4 and CD8 T cells in umbilical cord blood.

The goal of this project is to determine the function of KLRG1 *in vivo*. For this purpose, transgenic mice expressing KLRG1 and KLRG1-deficient mice will be analyzed in different infection models.

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