

Old mice, young blood: Reprogrammed stem cells rejuvenate blood

The following is an edited excerpt.

The blood of young and old people differs. In an article published recently in the scientific journal *Blood*, a research group at Lund University in Sweden explain how they have succeeded in rejuvenating the blood of mice by reversing, or re-programming, the stem cells that produce blood.

“Our ageing process is a consequence of changes in our stem cells over time,” explained Martin Wahlestedt, a doctoral student in stem cell biology at the Faculty of Medicine at Lund University, and principal author of the article.

“Some of the changes are irreversible, for example damage to the stem cells’ DNA, and some could be gradual changes, known as epigenetic changes, that are not necessarily irreversible, even if they are maintained through multiple cell divisions. When the stem cells are re-programmed, as we have done, the epigenetic changes are cancelled.”

Read the full article here: [Old Mice, Young Blood: Rejuvenating Blood of Mice by Reprogramming Stem Cells That Produce Blood](#)