Axsl1 fl/fl:Tet2 fl/fl Conditional Knockout Mice

These conditional knockout mice are useful for studying and characterizing the role of Axsl1 and Tet2 in myeloid malignancies, such as myelodysplastic syndromes (MDSs).

In the Axsl1 fl/fl; Tet2 fl/fl; Mx1-Cre mouse, the Mx1-Cre transgene drives the expression of Cre recombinase in response to interferon or poly I:C treatment. When these mice are bred, the offspring will have both the Axsl1 and Tet2 genes deleted in cells where Mx1 is active and Cre is expressed. This allows researchers to study the specific roles of the Axsl1 and Tet2 genes in these cells, while they remain functional in other tissues. This model is particularly useful for studying the role of these genes in immune responses or in conditions where interferon is upregulated.

Technology ID

AIF01-23

Category

Doug Brawley

Life Sciences/Materials/Mouse Models

Authors

Ioannis Aifantis, PhD

View online page