

PubMed

U.S. National Library of Medicine
National Institutes of Health



Display Settings: Abstract

Genes Dev. 2008 Sep 15;22(18):2473-8.

The nuclear receptor tailless is required for neurogenesis in the adult subventricular zone.

Liu HK, Belz T, Bock D, Takacs A, Wu H, Lichter P, Chai M, Schütz G.

Division of Molecular Biology of the Cell I, German Cancer Research Center (DKFZ), Heidelberg 69120, Germany.

Abstract

The tailless (Tlx) gene encodes an orphan nuclear receptor that is expressed by neural stem/progenitor cells in the adult brain of the subventricular zone (SVZ) and the dentate gyrus (DG). The function of Tlx in neural stem cells of the adult SVZ remains largely unknown. We show here that in the SVZ of the adult brain Tlx is exclusively expressed in astrocyte-like B cells. An inducible mutation of the Tlx gene in the adult brain leads to complete loss of SVZ neurogenesis. Furthermore, analysis indicates that Tlx is required for the transition from radial glial cells to astrocyte-like neural stem cells. These findings demonstrate the crucial role of Tlx in the generation and maintenance of NSCs in the adult SVZ in vivo.

PMID: 18794344 [PubMed - indexed for MEDLINE] PMCID: PMC2546695 **Free PMC Article**

[Publication Types](#), [MeSH Terms](#), [Substances](#)

[LinkOut](#) - more resources

You are here: [NCBI](#) > [Literature](#) > [PubMed](#)

[Write to the Help Desk](#)