

SUMMARY

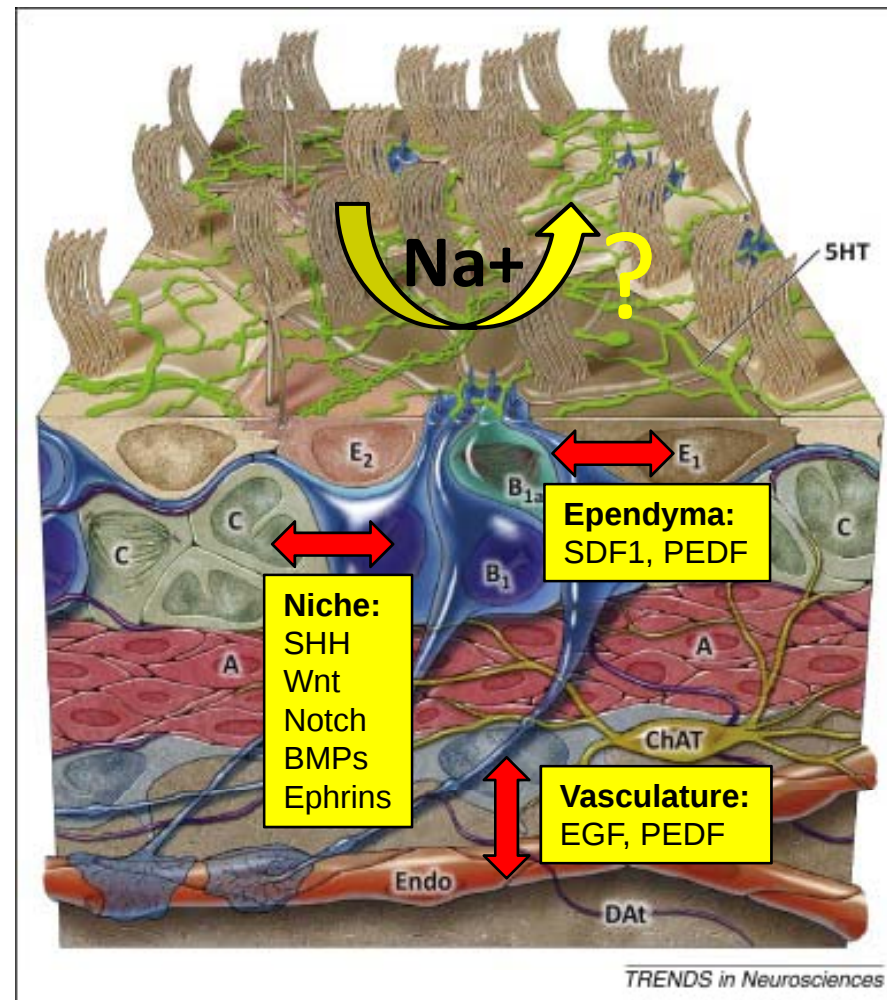
Final Report (1-24 months) for:

Marie Curie International Incoming
Fellowships PIIF-GA-2013-628603
(Acronym: ENaC_in_aNSC)

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Scientist: David Petrik

Fig1

Can **electrochemical gradient** at the ventricle-niche interphase regulate adult neurogenesis?



Based on Lim and Alvarez-Buylla, TINS 2014

Fig2

HYPOTHESIS: Does **ENaC** control sodium flux in **aNSCs** to influence their biology?

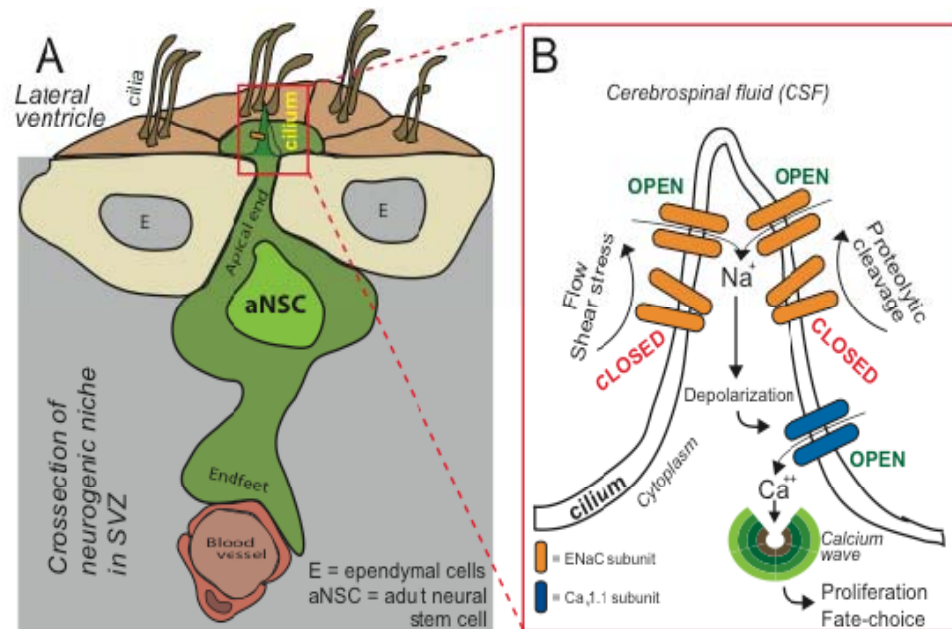


Fig3

In vitro, in neurospheres or SVZ primary cultures,
blocking or **KD ENaC reduces** cell proliferation
and **ablates** cell differentiation

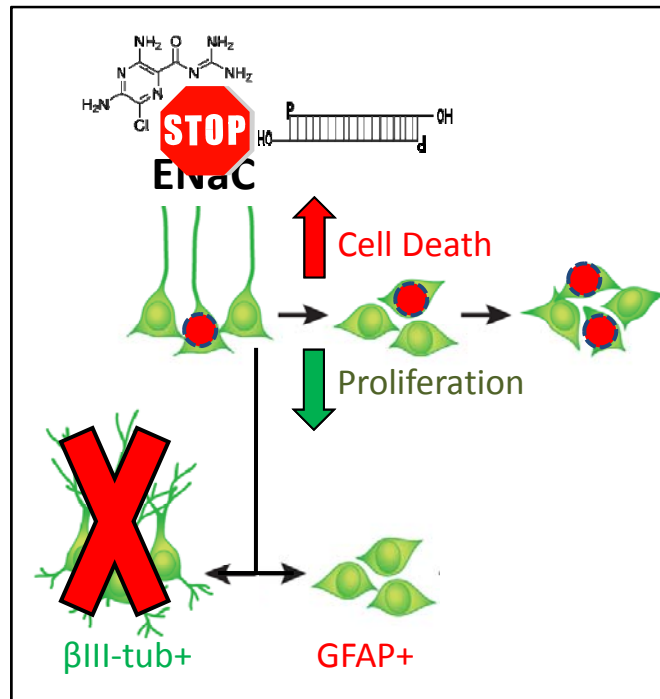
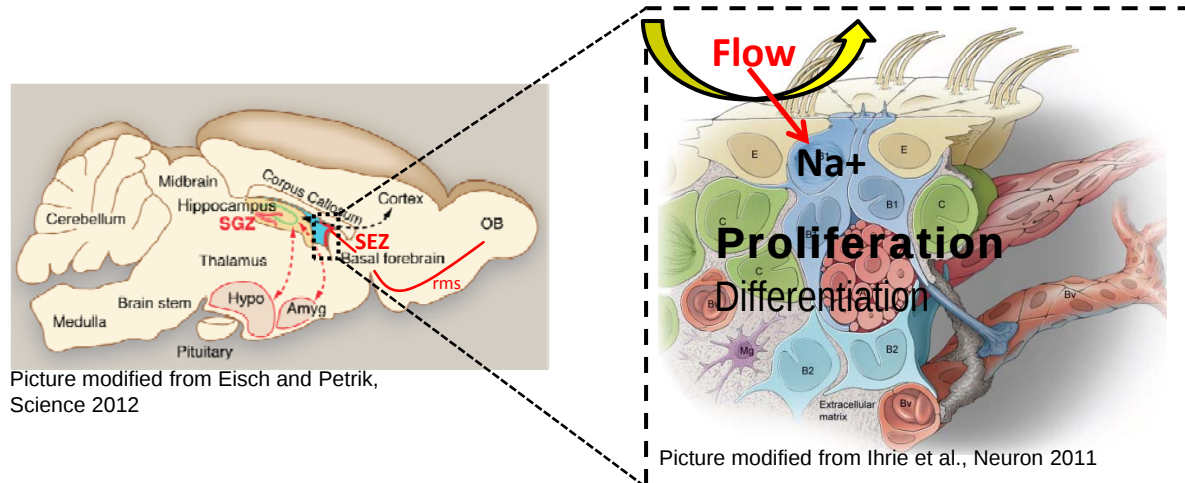


Fig4

In vivo, ENaC serves as an electrochemical sensor regulating proliferation of aNSCs and their progeny



ENaC as an electrochemical sensor of fluid flow regulating aNSCs and their progeny

