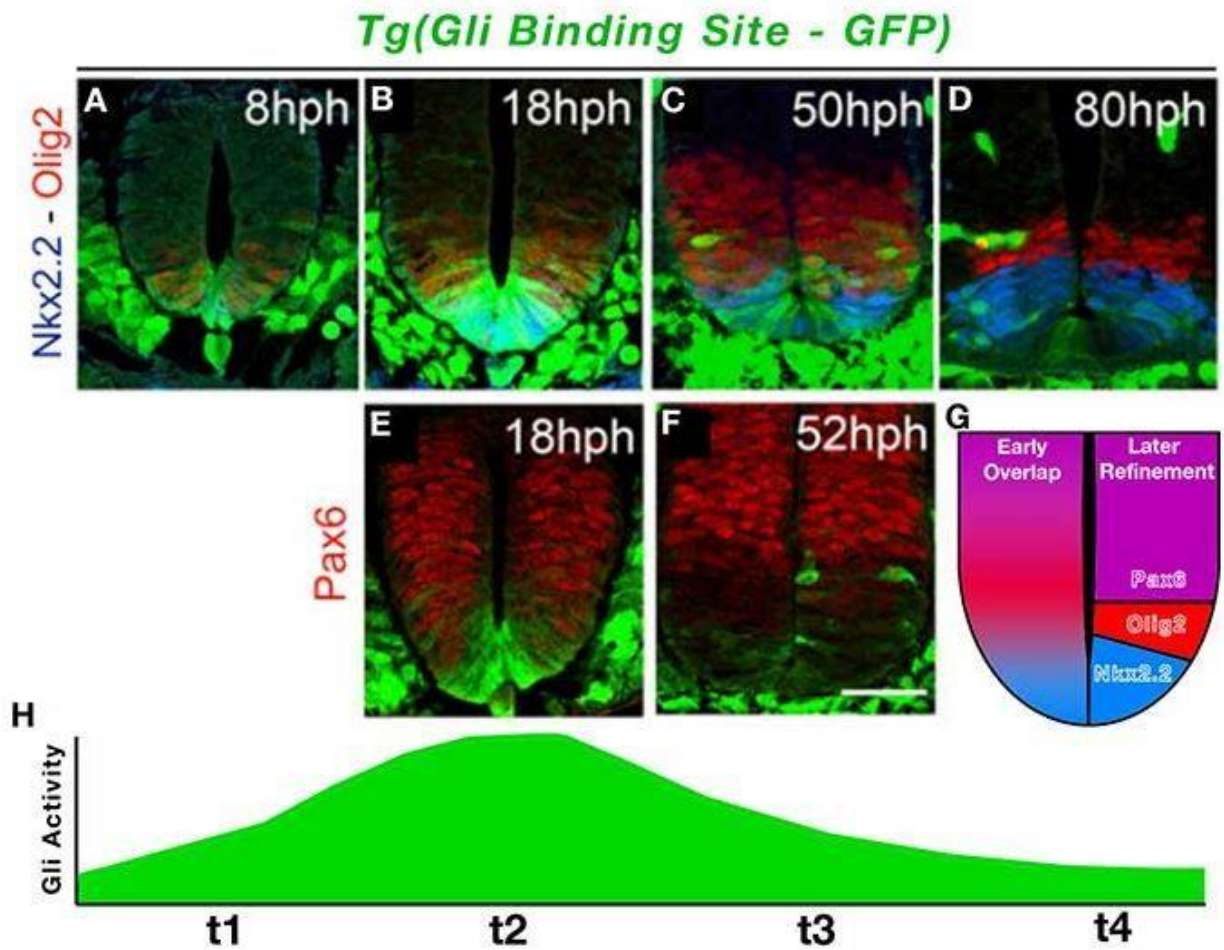


GLI Activation



Photos A-F from Balaskas et al. 2012. Gene regulatory logic for reading the Sonic Hedgehog signaling gradient in the vertebrate neural tube. *Cell* 148(1-2): 273-84, used under CC / BY <https://creativecommons.org/licenses/by/3.0/>, adaptation by Michael Barresi.

Figure 1 A dynamic spatiotemporal gradient of *gli* activation correlates with transcription factor expression domains. (A–F) Transverse section of neural tube of the *gli* binding site transgenic reporter mouse. *Tg(GBS–GFP)* shows GFP expression in cells that are actively transcribing *Gli* genes, which demonstrates a ventral to dorsal gradient that peaks in its intensity and dorsal distance at 18h, followed by a gradual decline over time. This temporal change is pictorially represented in (H). Early gene expression domains of *Nkx2.2*, *Olig2*, and *Pax6* have significant overlap; however, by 52h this pattern becomes progressively more refined over time. This refinement is pictorially displayed in (G).

Literature Cited

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